

50 PROGRAMS

JavaScript

A BEGINNER'S GUIDE



Ray Yao

50 Programs

JavaScript

By Ray Yao

For JavaScript Programmers

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Preface

“50 Programs of JavaScript” is a useful book for JavaScript programmers. Using these programs, you’ll be able to build JavaScript projects quicker and easier than ever, you can use these programs to create a dynamic web site fast.

This book can help you with:

- Form and validation
- Username and password check
- Filter ungraceful words
- Forbid copying photo or text
- Email format check
- Form submit check
- Movement and animation
- Text and visual effects
- Prevent malicious input
-
- And much more.

(Note: All programs have no explanations, but you can download the source code of this book.)

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Advanced JavaScript 50 Programs

1. Countdown to load webpage

Load web page after 10 seconds:

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Countdown to load the page</title>
<meta http-equiv="Content-Type"
content="text/html; charset=UTF-8" />
<META HTTP-EQUIV="REFRESH" CONTENT="10;
URL=http://www.amazon.com">
<script language="JavaScript">
timeObject = new Date();
countStart = timeObject.getTime();
function initTimer()
{
    var myTime = new Date();
        var currentTime = myTime.getTime();
        var diffTime = currentTime - countStart;
        this.diffSeconds = diffTime/1000;
        return(this.diffSeconds);
}
function getSeconds()
{
    var mySeconds0 = initTimer();
    var mySeconds1 = ""+mySeconds0;
    mySeconds1= 10 - eval(
mySeconds1.substring(0,mySeconds1.indexOf(".")))
+ " seconds";
document.myForm.timeElapse.value = mySeconds1;
window.setTimeout('getSeconds()',1000);
}
</script>
```

```
</head>
<body onLoad="window.setTimeout('getSeconds()',1)">
  center<br>
  Load web page after 10 seconds:<br><br>
  <form name=myForm>
  <input size=9 name=timeElapse></form>
</center>
</body>
</html>
```

2. Are you sure to delete?

Are you sure to delete?

Delete

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
  <title>Confirm Delete</title>
  <meta http-equiv="Content-Type"
    content="text/html; charset=UTF-8" />
  <script language="javascript">
    function delOperation()
    {
      if(confirm("Are you sure to delete?"))
        alert("Already deleted!");
      else
        alert("Cancel deleted!");
    }
  </script>
</head>
<body>
<center>
<br>Are you sure to delete?<br><br>
<input id="deleteButton" type="button"
value="Delete" onClick="delOperation()" />
</center>
</body>
</html>
```


Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Marquee Text</title>
<meta http-equiv="Content-Type"
content="text/html; charset=UTF-8" />
</head>
<body>
<div align="center">
  <p>&nbsp;</p>
  <p><span>The Text Scrolls Up Slowly
  </span><br><br>
  </p>
</div>
<marquee direction=up scrollamount=1
scrolldelay=100 onmouseover='this.stop()'
onmouseout='this.start()' height=60>
<div align="center">
  <table>
  <tr>
  <td>
    AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</td>
  </tr>
  <tr>
  <td>
    BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB</td>
  </tr>
  <tr>
  <td>
    CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC</td>
  </tr>
  <tr>
  <td>
```

```
        DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD</td>
</tr>
<tr>
  <td> EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE</td>
</tr>
<tr>
  <td>
    FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF</td>
</tr>
  <td>   GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG</td>
</tr>
<tr>
  <td>
    HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH</td>
</tr>
<tr>
  <td>
    KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK</td>
</table>
</div>
</marquee>
</body>
</html>
```


4. Count how many letters

Count how many letters



Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
</head>
<body>
<p align="center">&nbsp;</p>
<p align="center">Count how many letters<br>
</p>
<div align="center">
  <script language="JavaScript">
function cal(str)
{
  re=/[a-z & A-Z]/g;
  if(re.test(str))
    return str.match(re).length
  else
    return 0
}
</script>
<input onBlur="alert(cal(this.value) )">
<input type="button" value="Count Letters">
</div>
</body>
</body>
</html>
```

5. Search Engine

Keyword:

Select Engine: ▼

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Search Engine</title>
<meta http-equiv="Content-Type"
content="text/html; charset=UTF-8" />
</head>
<body><br><br>
<form Name="myForm">
<div align="center"><center><p>
<script language="JavaScript">
var formVariable;
function makeSearch()
{

document.forms[formVariable +
document.myForm.SearchSelect.
selectedIndex].elements[0].value=
document.myForm.SeachText.value;
document.forms[formVariable+
document.myForm.SearchSelect.selectedIndex].submit();
}
</script>
</p>
  <p><span style="font-size: 12pt">Keyword:</span>
    <input name="SeachText" type="text" size="21"
style=" margin-left: 1px">
  </p>
  <p><br>
    <span style="font-size: 12pt">Select Engine:</span>
    <select Name="SearchSelect" size="1" >
      <option selected>Yahoo</option>
```

```
        <option value="Google">Google</option>
        <option value="Bing">Bing</option>
    </select>
</p>
<p><br>
<input type="button" value=" SEARCH "
onClick="makeSearch()">
    <script language="JavaScript">
formVariable=document.forms.length
    </script>
</p>
</center></div>
</form>
<form action="http://search.yahoo.com/bin/search"
method="get">
<input type="hidden" name="p" value>
</form>
<form action="http://www.google.com/search">
<input type="hidden" name="q" value>
</form>
<form action="http://www.bing.com/search">
<input type="hidden" name="q" value>
</form>
</body>
</html>
```

6. Select Tag



Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
  <title>Select Tag</title>
<meta http-equiv="Content-Type"
content="text/html; charset=UTF-8" />
<style>
.conts{visibility:hidden}
.tab{border-top:solid thin #E0E0E0;
border-right:solid thin gray;
border-left:solid thin #E0E0E0;
font-family:Verdana;
font-size:10pt;
text-align:center;
font-weight:normal}
.selTab{border-left:solid thin white;
border-top:solid thin white;
border-right:solid thin black;
font-weight:bold;
text-align:center}
</style>
<script language="JavaScript">
function public_Labels(label1, label2,
label3, label4, label5)
{
t1.innerText = label1;
t2.innerText = label2;
t3.innerText = label3;
t4.innerText = label4;
t5.innerText = label5;
}
function public_Texts(Texts1,
Texts2, Texts3, Texts4, Texts5){
t1Texts.innerHTML = Texts1;
t2Texts.innerHTML = Texts2;
t3Texts.innerHTML = Texts3;
t4Texts.innerHTML = Texts4;
t5Texts.innerHTML = Texts5;
init();
}
```

```

function init(){
tabTexts.innerHTML = t1Texts.innerHTML;
}
var nowTab;
var myTab;
var mark = true;
function altertab(){
if(mark == true){
nowTab = t1;
myTab = t1base;
mark = false;
}
if(window.event.srcElement.className == "tab")
{
nowTab.className = "tab";
myTab.style.backgroundColor = "white";
nowTab = window.event.srcElement;
myTabID = nowTab.id + "base";
tabContentID = nowTab.id + "Texts";
myTab = document.all(myTabID);
tabContent = document.all(tabContentID);
nowTab.className = "selTab";
myTab.style.backgroundColor = "";
tabTexts.innerHTML = tabContent.innerHTML;
}}
</script>
</head>
<body BGCOLOR="white" onclick="altertab()" onLoad="init()">
<br><br>
<table align="center" CELLPADDING="0" CELLSPACING="0"
bgcolor="yellow" STYLE="width:400; height:300">
<tr><td ID="t1" CLASS="selTab" HEIGHT="25">SELECT 1</td>
<td ID="t2" CLASS="tab">SELECT 2</td>
<td ID="t3" CLASS="tab">SELECT 3</td>
<td ID="t4" CLASS="tab">SELECT 4</td>
<td ID="t5" CLASS="tab">SELECT 5</td>
</tr><tr>
<td ID="t1base" STYLE="height:2; background-color:white">
</td>
<td ID="t2base" STYLE="height:2; background-color:white">
</td>

```



```
<td ID="t3base" STYLE="height:2; background-color:white">
</td>
<td ID="t4base" STYLE="height:2; background-color:white">
</td>
<td ID="t5base" STYLE="height:2; background-color:white">
</td>
</tr><tr><td HEIGHT="*" COLSPAN="5" ID="tabTexts"
STYLE="border-left:solid thin white;border-bottom:solid
thin white;border-right:solid thin white">&nbsp;</td>
</tr></table></div><div CLASS="conts" ID="t1Texts">
<p align="center">1.AAAAAAAAAAAA</p>
</div><div CLASS="conts" ID="t2Texts">
<p align="center">2.BBBBBBBBBBB</p>
</div><div CLASS="conts" ID="t3Texts">
<p align="center">3.CCCCCCCCCC </p>
</div><div CLASS="conts" ID="t4Texts">
<p align="center">4.DDDDDDDDDDD </p>
</div><div CLASS="conts" ID="t5Texts">
<p align="center">5.EEEEEEEEEEE</p>
</div>
</body>
</html>
```

7. Time Format Conversion

9:13:56 PM

- 24 Hour Format
- 12 Hour Format

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Time Format Conversion</title>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" />
<SCRIPT LANGUAGE="JavaScript">
function timeFormat() {
    if (document.myForm.showFormat[0].checked) {
        return true;
    }
    return false;
}
function showHours(nowHour) {
    if (timeFormat() || (nowHour > 0 && nowHour < 13)) {
        return (nowHour);
    }
    if (nowHour == 0) {
        return (12);
    }
    return (nowHour-12);
}
function displayZero(timeVal) {
    if (timeVal > 9) {
        return "" + timeVal;
    }
    return "0" + timeVal;
}
function AmPm() {
    if (timeFormat()) {
```

```

return ("");
}
if (now.getHours() < 12) {
return (" AM");
}
return (" PM");
}
function displayTime() {
now = new Date
document.myForm.showTime.value =
    showHours(now.getHours()) + ":" +
    displayZero(now.getMinutes()) + ":" +
    displayZero(now.getSeconds()) + AmPm()
setTimeout("displayTime()",1000)
}
</script>
</head>
<BODY onLoad="displayTime()">
<center><br><br>
<form name=myForm>
<input type=text name=showTime size=11><p>
<input type=radio name=showFormat>24 Hour Format<br>
<input type=radio name=showFormat>12 Hour Format<br>
</form>
</center>
</body>
</html>

```

8. Count you typed

```
Hi! JavaScript is very good!
```

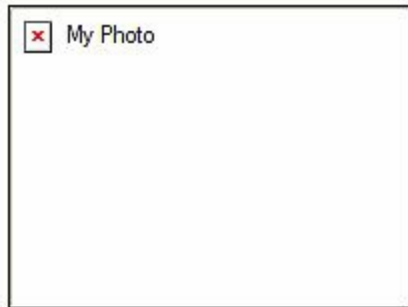
The number of words you have typed:

28

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Show number of words</title>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" />
<script LANGUAGE="JavaScript">
function countWords(myContents)
{
    wordsNum=myContents.value.length;
    displayNum.innerText=wordsNum; }
</script>
</head>
<body><br><br>
<center>
<textarea id=myContents rows=10 colors=38
onKeyUp="countWords(this) " onKeyDown="countWords(this)">
</textarea>
<br><h3>The number of words you have typed: </h3>
<h1><div id="displayNum"></div></h1>
</center>
</body>
</html>
```

9. Forbid Copying Photo



Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
  <title>Forbid copy photo</title>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" />
  <script language="javascript">
    function stopCopying(control) {
      alert("Stop Copying! Allright Reserved!");
      window.close();
    }
    function findPhoto() {
if(document.images)
for(i=0;i<document.images.length;i++)
document.images[i].onmousedown = stopCopying;
    }
  </script>
</head>
<body oncontextmenu="return false"
onLoad="findPhoto()">
<br><br>
<div align="center"></div>
</body>
</html>
```


10. Check Password Strength

Password

Retype Password

Strength: Password poor!

Source Code:

```
<html>
<head>
<title>Password Strength</title>
<meta http-equiv="Content-Type"
content="text/html; charset=UTF-8"/>
</head>
<body> <br><center>
<form name="myForm">
<label for="pwd1">Password</label>
<input type="Password" name="pwd1"
onBlur="valuate(this)" />
<br><br>
<label for="pwd2">Retype Password </label>
<input type="password" name="pwd2" />
</form> </center>
<center><div id="showStrength"></div> </center>
<script type="text/javascript">
function valuate(pwd) {
var t=pwd.value;
var id=getStrength(t);

var message=new Array(4);
message[0]="Password too short!";
message[1]="Password poor!";
message[2]="Password medium!";
message[3]="Password strong!";

var myColor=new Array(4);
myColor[0]="black";
myColor[1]="red";
myColor[2]="orange";
myColor[3]="green";
```

```
var setWidth=300;
var setHeight=15;
var myPWD=document.getElementById("showStrength");
myPWD.style.fontSize="15px";
myPWD.style.color=myColor[id];
myPWD.style.width=setWidth + "px";
myPWD.style.height=setHeight + "px";
myPWD.style.lineHeight=setHeight + "px";
myPWD.style.textIndent="20px";
myPWD.innerHTML="Strength: " + message[id];
}
function getStrength(p){
if(p.length < 4){
return 0;
}
var level = 0;
if (p.match(/[a-z]/ig)){
level++;
}
if (p.match(/[0-9]/ig)){
level++;
}
if (p.match(/(.[^a-z0-9])/ig)){
level++;
}
if (p.length < 6 && level > 0){
level--;
}
return level
}
</script>
</body>
</html>
```

11. Open Your Harddrive

Open Your Harddrive

Open C Disk

Open D Disk

Open E Disk

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Open Your Harddrive</title>
<meta http-equiv="Content-Type"
content="text/html; charset=UTF-8" />
</head>
<body>
<br><center><h3>Open Your Harddrive</h3><br>
<form action="file:///c/">
<input type="submit" value="Open C Disk"></form>
<form action="file:///d/">
<input type="submit" value="Open D Disk"></form>
<form action="file:///e/">
<input type="submit" value="Open E Disk"></form>
</center>
</body>
</html>
```

12. Wave Text

JaVaScRiP

JaV_acRiP_t

Source Code:

```
<script language="JavaScript">
function makeWave(n)
{
    makeWaveText = "JavaScript";
    display = "";
    for (i = 0; i < makeWaveText.length; i++)
    {
        size = 68*Math.abs(Math.sin(
        (i+n)*3.14/makeWaveText.length))
        display +=
        "<font style='font-size: "+ size +
        "pt' color='green'>"
        +makeWaveText.substring(i,i+1)+ "</font>";
    }
    textDiv.innerHTML = display;
    if (n > makeWaveText.length) {n=0}
    else {n++}
    setTimeout("makeWave(" + n + ")", 300);
}

</script>
<body onload=makeWave(0);><br>
<div ID="textDiv" align="center">
</div>
</body>
```

13. Text Advertisement

Text Advertisement

```
ipt world!>>> >>>JavaScript is very good lan
```


Source Code:

```
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" />
<body onLoad="textAd();"><br><br>
<div align="center">Text Advertisement<br><br>
<script language="JavaScript">
var myText=" >>>Welcome to JavaScript world!>>>";
myText+=" >>>JavaScript is very good language!>>>";

var aLetter=50;
function textAd(){
document.forms[0].panel.value=
myText.substring(myText.length-aLetter, myText.length);
myText=myText.substring(myText.length-1,myText.length)
+myText;
myText=myText.substring(0,myText.length-1);
setTimeout("textAd()",200);
}
</script>
</div>
<form>
  <div align="center">
    <input type="text" name="panel" value="" size="38">
  </div>
</form>
</body>
```

14. Web Clock

Web Clock

11:22:39

Source Code:

```
<div align="center"><br>
  <br>
  <h2 >Web Clock</h2>
  <br>
</div>
<table bgcolor="green" align=center>
<tr><td><div id="showClock"></div></td></tr>
</table>
<script language="javascript">
function webClock(){
var dataobj=new Date()
var hours=dataobj.getHours()
var minutes=dataobj.getMinutes()
var seconds=dataobj.getSeconds()
if(minutes<=9)
minutes="0"+minutes
if(seconds<=9)
seconds="0"+seconds
Eclock="<font size='7' color='white' face='Arial black'>"
+hours+":"+minutes+":"+seconds+"</font>"
showClock.innerHTML=Eclock;
setTimeout("webClock()",1000)
}
webClock();
</script>
```

15. How much is the Price?

The Price of Books:

JAVA in 8 Hours: \$500

LMAP in 8 Hours: \$400

HTML in 8 Hours: \$450

Total:


```
</tr>
<tr>
<td>LMAP in 8 Hours: $400</td>
<td width=30>
<input type="checkbox" name="b2" value=400
onclick="checkPrice(this);">
</td>
</tr>
<tr>
<td>HTML in 8 Hours: $450 </td>
<td width=30>
<input type="checkbox" name="b3" value=450
onclick="checkPrice(this);">
</td>
</tr>
<tr>
<td colspan=2 align=right>Total:
<input type="text" name="total" size=8 value='$0'
onFocus="this.blur();">
</td>
</tr>
</table>
</form>
</body>
</html>
```

16. Progress Bar



Source Code:

```
<html>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<body>
<br><br>
<form name=loading>
<p align=center> <font color="green" size="2" face="Arial Black">Please
wait, Loading.....</font>
<br><br>
<input type=text name=progress size=55 style="font-family:Arial Black;
font-weight:bolder; color:green; background-color:#fef4d0; padding:0px;
border-style:none;">
<br><br>
<input type=text name=percent size=50 style="font-family:Arial Black;
color:green; text-align:center; border-width:medium; border-style:none;">
<script language="JavaScript">
var loadingPercent=0 ;
var mark="||" ;
var sum="||" ;
count() ;
function count() {
loadingPercent=loadingPercent+2;
sum =sum + mark;
document.loading.progress.value=sum ;
document.loading.percent.value=loadingPercent+"%";
if (loadingPercent<99) {
setTimeout("count()",100);
}
else {
window.location.href = "http://www.amazon.com";
} }
</script>
</p>
```



```
</form>  
</body>  
</html>
```

17. Filter Ungraceful Words

Your message has a ungraceful word,

which has been replaced by: **You are a master.**

Source Code:

```
<html>
<head>
<title>Filter Ungraceful Words</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<script language="javascript">
message=prompt("Filter “fool, idiot, imbecile and moron” words. Please
enter your message: ", "");
substitute = /fool|idiot|imbecile|moron/g;
if (message.match(substitute)){
message=message.replace(substitute,"master");
message=message.bold().fontcolor("#FF0000");
myText="Your message has a ungraceful word, which has been replaced by:
" + message;
}
else{
message=message.bold().fontcolor("#0000FF");
myText="Yor message has no ungraceful word, you said: " + message;
}
</script>
</head>
<body>
<script language="javascript">
document.write(myText)
</script>
<br>
</body>
</html>
```

18. Forbid Copy Password



Source Code:

```
<html>
<head>
<title>Forbid Copy Password</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<script language="javascript">
function noCopy(pwd){
alert("Please don't copy password!")
with(document.myForm){
if (pwd == "pwd1") {
pwd1.blur()
pwd2.focus()
}
else if(pwd == "pwd2"){
pwd2.blur()
pwd1.focus()
}}
</script>
</head>
<body>
<form name="myForm">
<p><br>
Password:
<input type="password" name="pwd1" onSelect="noCopy(this.name)">
</p>
<p>Retype Password:
<input type="password" name="pwd2" onSelect="noCopy(this.name)">
</p>
<br>
</form>
</body>
</html>
```

19. World Clock

World Clock

New York:	10:50:16.292
Los Angeles:	7:50:16.29
London:	15:50:16.292
Paris:	16:50:16.292
Tokyo:	24:50:16.292
Beijing:	23:50:16.292

Source Code:

```
<html>
<head>
<title>
The Time of Cities in the World
</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<script language="javascript">
var t
function wordTime(){
t=0
nowDate= new Date()
worldClock("New York",-5)
worldClock("Los Angeles",-8)
worldClock("London",0)
worldClock("Paris",1)
worldClock("Tokyo",9)
worldClock("Beijing",8)
setTimeout("wordTime()",1000)
}
function worldClock(city,diffTime){
UTCh= nowDate.getUTCHours()
UTCm= nowDate.getUTCMinutes()
UTCs= nowDate.getUTCSeconds()
UTCms= nowDate.getUTCMilliseconds()
with(document){
forms[0][t].value=city + " : " + (UTCh+diffTime) + ":" + (UTCm) + ":" +
(UTCs) + "." + (UTCms)
```



```
t++
}
}
</script>
</head>
<body onLoad="wordTime()">
<center>
<br><br>World Clock<br><br>
<form name="myForm">
<table align="center">
<tr><td>
<input type="text"><br><input type="text"><br><input type="text"><br>
<input type="text"><br><input type="text"><br><input type="text"><br>
</tr>
</table>
</form>
</center>
</body>
</html>
```

20. Encrypt Code to Number

Encrypt Code to Number

JavaScript	Encode -->	51749574607691828993
	<-- Decode	

Source Code:

```
<html>
<head>
<title>Encrypt Code to Number</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
</head>
<SCRIPT LANGUAGE="JavaScript">
var strInput;
var strOutput = "";
var numInput;
var numOutput = "";
var txt = "Please enter data!";
function StrToNum(form) {
numOutput = "";
if(form.input.value == "") alert(txt);
else {
strInput = escape(form.input.value);
for(i = 0; i < strInput.length; i++) {
numOutput += strInput.charCodeAt(i) - 23;
}
form.output.value = numOutput;
form.input.value = "";
}
}
function NumToStr(form) {
strOutput = "";
if(form.output.value == "") alert(e)
else {
numOutput = form.output.value;
for(i = 0; i < numOutput.length; i += 2) {
numInput = parseInt(numOutput.substr(i,[2])) + 23;
```

```
numInput = unescape('%' + numInput.toString(16));
strOutput += numInput;
}
form.input.value = unescape(strOutput);
form.output.value = "";
}
}
</script>
<body>
<br>
<div align="center">Encrypt Code to Number
</div>
<center>
<form>
<table>
<tr>
<td align=center>
<input name=input type=text size=20 value="JavaScript">
</td>
<td align=center>
<br>
<input type=button value=" Encode --> "
onClick="javascript:StrToNum(this.form)">
<br>
<input type=button value=" <-- Decode "
onClick="javascript:NumToStr(this.form)">
<br>
</td>
<td align=center>
<input name=output type=text size=20 value="51749574607691828993">
</td>
```

```
</tr>  
</table>  
</form>  
</center>  
</body>  
</html>
```

21. Forbid copying texts

You cannot copy these texts!

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml">  
<head>  
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />  
<title>Cannot Copy</title>  
</head>  
<body oncontextmenu="return false" ondragstart="return false"  
onselectstart="return false">  
You are not able to copy these texts!  
</body>  
</html>
```

22. Check Email Format

Check E-mail Format

E-mail:

Source Code:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html>
<head>
<title>Check Email Format</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<script type="text/javascript">
function checkemail( ) {
if(document.myForm.email.value.length!=0) {
if(document.myForm.email.value.charAt(0)=="."||
document.myForm.email.value.charAt(0)=="@"||
document.myForm.email.value.indexOf('@',0)==-1||
document.myForm.email.value.indexOf('.',0)==-1||

document.myForm.email.value.lastIndexOf('@')==document.myForm.email.v
1||

document.myForm.email.value.lastIndexOf('.')==document.myForm.email.va
1 ) {
alert("E-mail format wrong!");
document.myForm.email.focus();
return false;
}
else {
alert("Email Format Correct!");}
}
else {
alert("Email cannot be empty!");
```

```
document.myForm.email.focus();
return false;
}
return false;
}
</script>
</head>
<body>
<center>
  <h2>Check E-mail Format </h2>
  <hr>
</center>
<form name="myForm" method="POST" action onSubmit="return
checkemail()">
  <div align="center">E-mail:
    <input type="text" name="email" id="email" size="20">
    &nbsp;
    <input type="submit" value="Submit" >
  </div>
</form>
</body>
</html>
```

23. Submit Only One Time

Prevent repeatedly submit.

Username:	<input type="text"/>
Password:	<input type="password"/>
Company:	<input type="text"/>
Contact:	<input type="text"/>
Address:	<input type="text"/>

Source Code:

```
<script type="text/JavaScript">
function MM_popupMsg(message) {
    alert(message);
}
</script>
<body>
<p>&nbsp;</p>
<form>
    <p align=center>&nbsp;</p>
<table width="200" align="center">
    <tr>
        <td>Username:</td>
        <td><input type=text name=username size=30></td>
    </tr>
    <tr>
        <td>Password: </td>
        <td><input type=password name=pwd size=30></td>
    </tr>
    <tr>
        <td>Company: </td>
        <td><input type=text name=danwei size=30></td>
    </tr>
    <tr>
        <td>Contact: </td>
        <td><input type=text name=lianxi size=30></td>
    </tr>
</table>
```

```
<tr>
  <td>Address: </td>
  <td><input type=text name=dizhi size=30></td>
</tr>
<tr>
  <td>&nbsp;</td>
  <td><div align="right">
    <input type=submit name=b1 value="Submit "
onClick="disabled=true;MM_popupMsg('Submit Subcessfully!')">
  </div></td>
</tr>
</table>
<p align=center>&nbsp;</p>
</form>
</body>
```

24. How much is the Price?

The price of programing:

- \$2000 for JAVA programing
- \$1900 for LAMP programing
- \$1800 for J2EE programing
- \$1700 for HTML programing

Total Price

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>How Much is the Price?</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<script language="javascript">
function dataCal(){
var sum=0;
var obj=document.getElementsByName("myChoice");
for(var i=0;i<obj.length;i++)
{
    if(!obj[i].checked)
        continue;
    sum+=parseFloat(obj[i].value);
}
    alert("Total Price is:"+sum);
}
</script>
<style type="text/css">
body {
    margin-left: 100px;
}
</style>
</head>
<body><p>&nbsp;</p>
<p>The price of programing: </p>
<p>
```

```
<input type="checkbox" value="2000" name="myChoice">
$2000 for JAVA programing<br/>
<input type="checkbox" value="1500" name="myChoice">
$1900 for LAMP programing <br/>
<input type="checkbox" value="1800" name="myChoice">
$1800 for J2EE programing<br/>
<input type="checkbox" value="1800" name="myChoice">
$1700 for HTML programming
</p>
<p>
<br/>
<input type="button" value="Total Price" onClick="dataCal()">
</p>
</body>
</html>
```


25. Encode the Texts

```
<html>Encode the Texts</html>
```

Encode

```
%253Chtml%253EEncode%2520the%2520Texts%253C/html%253E
```

Unicode

Source Code:

```
<html>
<script language=JavaScript>
var Words;
function SetWords(word)
{
Words = word.value;
}
function MakeTexts1(form)
{
var NewTexts;
NewTexts = encodeURIComponent(escape(Words));
form.NewTexts.value = NewTexts;
}
function MakeTexts2(form)
{
var NewTexts;
NewTexts = (unescape(Words));
form.NewTexts.value = NewTexts;
}
</script>
<title>Encode the Texts</title>
<body>
<p>&nbsp;</p>
<p>&nbsp;</p>
<table align=center>
<tr>
```

```
<form method=post>
<td align=center>
<p><textarea cols=50 name=Word onchange=SetWords(this) rows=5>
</textarea>
</p>
<p><input name=encode onClick=MakeTexts1(this.form) type=button
value="Encode">
</p>
<p><textarea cols=50 name=NewTexts rows=5></textarea>
</p>
<p><input name=uncode onclick=MakeTexts2(this.form) type=button
value="Unicode">
</p>
</form>
</td>
</tr>
</table>
</body>
</html>
```

26. Select All

<input type="button" value="Select All"/>	PROGRAMMING:
<input type="checkbox"/>	HTML
<input type="checkbox"/>	J2EE
<input type="checkbox"/>	ASP
<input type="checkbox"/>	PHP
<input type="checkbox"/>	JSP
<input type="checkbox"/>	VB
<input type="checkbox"/>	C#

Source Code:

```
<html>
<script language=javascript>
function CheckToggle(){
for(var i=0;i<document.myForm.elements.length;i++){
var e=document.myForm.elements[i];
e.checked=!e.checked;
}}
</script>
<body>
<form method="post" name="myForm">
<table align="center">
  <tr>
    <td width=88 height=20 onClick="javascript:CheckToggle()"
STYLE='cursor:hand'><input type="button" name="Submit" value="Select
All" /></td>
    <td width="252">PROGRAMMING:</td>
  </tr><tr>
    <td height=20><input type="checkbox" name="checkbox1" ></td>
    <td height=20>HTML</td>
  </tr><tr>
    <td height=20><input type="checkbox" name="checkbox2"></td>
    <td height=20>J2EE</td>
  </tr><tr>
    <td height=20><input type="checkbox" name="checkbox3"></td>
    <td height=20>ASP</td>
  </tr><tr>
    <td height=20><input type="checkbox" name="checkbox4" /></td>
    <td height=20>PHP</td>
  </tr><tr>
    <td height=20><input type="checkbox" name="checkbox5" /></td>
    <td height=20>JSP</td>
  </tr></table>
</form>
</body>
</html>
```

```
</tr><tr>
  <td height=20><input type="checkbox" name="checkbox6" /></td>
  <td height=20>VB</td>
</tr><tr>
  <td height=20><input type="checkbox" name="checkbox7"/></td>
  <td height=20>C#</td>
</tr>
</table>
<div align="center"></div>
<div align="center"></div>
</form>
</body>
</html>
```

27. SEO by Keywords

Search engine optimization (SEO) is the process

of affecting the visibility of a website

or a web page in a search,

improving search engine rankings

by keywords or other methods.....

Note:

My business, my factory, my bank

are keywords of this web page.

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<head>
<title>SEO by Keywords</title>
<meta name="Keywords" content="My business, my factory, my
bank">
</head>
<body>

<br><br>
<center>
<p>Search engine optimization (SEO) is the process</p>
<p> of affecting the visibility of a website</p>
<p> or a web page in a search,</p>
<p>improving search engine rankings</p>
<p> by keywords or other methods.....</p>
<p>Note: </p>
  <p>My business, my factory, my bank </p>
  <p>are keywords of this web page. </p>
</center>
</body>
</html>
```


28. Replace a Word

New word can replace old word.

Old Word means the existing word in text area.

Input texts in following area.

 Old Word New Word

Source Code:

```
<html>
<head>
<title>Search & Replace</title>
<script language="JavaScript">
function lookFor(str2)
{
  var str1 = document.form2.text1.value;
  var str2 = document.form1.text1.value;
  var s = str1.indexOf(str2);
  if(s != -1 && str2 != "")
    {alert("The word will be replaced!");}
  else
    {alert("There is no this word.");}
}

function subs()
{
  var str1 = document.form2.text1.value;
  var str2 = document.form1.text1.value;
  var str3 = document.form1.text2.value;
  var s = str1.indexOf(str2);
  if(str2 != "" && str3 != "" )
  {
  if(s != -1)
  {
    var bb = str1.substring(0, s);
```

```
var cc = str1.substring(s+str2.length, str1.length);
document.form2.text1.value = bb+str3+cc;}
else
{alert("Please input some sentents first.");}
else
{alert("Erorr!");}
}
</script>
</head>
<body>
<br>
<center>
<p>&nbsp;</p>
<form name="form2">
  <p>&nbsp;</p>
  <p>Input texts in following area. </p>
  <p>
    <textarea name="text1" rows=10 cols=30></textarea>
  </p>
</form>
<form name="form1">
  <p>
    <input type="text" name="text1" size=20>
    <input type="button" value="Old Word" onClick="lookFor()">
  </p>
  <p>
    <br>
    <input type="text" name="text2" size=20>
```

```
<input type="button" value="New Word" onClick="subs()">  
<br>  
</p>  
</form>  
</center>  
</body>  
</html>
```

29. How long have you stayed?

How long have you stayed?

0: 2: 30

Source Code:

```
<html>
<head>
<title>How long have you stayed?</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
</head>
<body>
<center><form name=forms>
  <p>&nbsp;</p>
  <p><b>How long have you stayed? </b></p>
  <p> <input type=text name=stayTime size=3></p>
</div>
<script language=javascript>
var sec=0;
var min=0;
var hou=0;flag=0;idt=window.setTimeout("Elapse();",1000);
function Elapse(){
sec++;
if(sec==60){sec=0;min+=1;}
if(min==60){min=0;hou+=1;}
document.forms.stayTime.value=hou+": "+min+": "+sec+" ";
idt=window.setTimeout("Elapse();",1000);}
</script>
</form>
</center>
</body>
</html>
```

30. Print this page

Print This Page

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>Print this page</title>
</head>
<body>
<form name="form1" method="post" action="">
  <div align="center">
    <input type="submit" name="Submit" value="Print This Page"
onClick="javascript:window.print()"></div>
</form>
</body>
</html>
```


31. Disable right-click menu

Stop using right-click menu!

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
  <title>Disable righ-click menu</title>
<script language="javascript">
function click()
{
  if (event.button==2)
  {
    alert('Stop using right-click menu!');
  }
}
document.onmousedown=click;
</script>
</head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />

<body oncontextmenu="return false;" >
<div>
  <div align="center">
    <p>&nbsp;</p>
    <p>Stop using right-click menu! </p>
  </div>
</div>
</body>
</html>
```

32. Disable part of scripts

Part of scripts have been disabled.

Source Code:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Disable part of scripts</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
</head>
<body>
<div align="center">
  <p>&nbsp;</p>
  <p>&nbsp;</p>
  <p>Part of scripts have been disabled.
  <noscript>
    <script LANGUAGE="JavaScript">
      alert("You are not able to see this message!");
    </script>
  </noscript>
  </p>
</div>
</body>
</html>
```

33. Limit wrong password

Username: Smith Password: 123

Username:	<input type="text"/>
Password:	<input type="password"/>
	<input type="submit" value="Submit"/>

If you enter wrong password for three times,
you will be not allowed to use this system any more!

Source Code:

```
<script language="JavaScript">
numberTimes=0
function checkpassword(){
if (numberTimes== 3){
    alert("You have entered wrong password for three times, you must not
use this system anymore!")
    window.close();
}
else{
if((document.myForm.username.value == "Smith")&&
(document.myForm.myPassword.value == "123"))
    {
    alert("Password Correct!")
    window.location="http://www.amazon.com";
    }
else{
numberTimes=numberTimes+1
alert("Wrong password, please try again!")
return false
}
}
}
}
</script>
</head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
```

```
<body>
<br>
<form name="myForm" method="post">
  <div align="center"><p>&nbsp;</p><br>
Username:
<input name="username" type="text"><br>
Password:
<input name="myPassword" type="password"><br>
<input type="button" name="submit" value="Submit"
onClick="checkpassword();">
  </p>
<br>
  <p>If you enter wrong password for three times, </p>
  <p>you will be not allowed to use this system anymore! </p>
</div>
</form>
</body>
```

34. Words processing

Pleas input a sentence!

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Word Processing</title>
<meta http-equiv="content-type" content="text/html; charset=UTF-8" />
</head>
<body><br>
<h1 id="myHeading" align="center" style="font-size: larger;">Pleas input a
sentence!</h1>
<form name="myForm" id="myForm" action="#" method="get">
  <p align="center"><br />
    <input type="text" name="myText" id="myText" size="30" />
    <input type="button" value="Input a sentence"
onclick="document.getElementById('myHeading').textContent=document.my
/></p>
  <p align="center">
    <input type="button" value="Align Left"
onclick="document.getElementById('myHeading').align='left';" />
    <input type="button" value="Align Center"
onclick="document.getElementById('myHeading').align='center';" />
    <input type="button" value="Align Right"
onclick="document.getElementById('myHeading').align='right';" /><br /><br
/>
    <input type="button" name="Submit" value="72 px size"
onClick="document.getElementById('myHeading').style.fontSize='72'+ 'px';">
    <input type="button" value="36 px size"
onclick="document.getElementById('myHeading').style.fontSize='36'+ 'px';"
/>
```

```
<input type="button" value="18 px size"
onclick="document.getElementById('myHeading').style.fontSize='18'+ 'px';"
/><br /><br />
```

```
<input type="button" value="Red"
onclick="document.getElementById('myHeading').style.color='red';" />
```

```
<input type="button" value="Blue"
onclick="document.getElementById('myHeading').style.color='blue';" />
```

```
<input type="button" value="Green"
onclick="document.getElementById('myHeading').style.color='green';" />
<br /></p>
```

```
</form>
```

```
</body>
```

```
</html>
```

35. Greeting by time

Greeting By Time

9 o'clock now, do you begin to work?

Source Code:

```
<html><head>
<title>Greeting by time</title></head>
<body><p>&nbsp;</p><p>&nbsp;</p><p>&nbsp;</p>
<strong>Greeting By Time</strong><br><br>
<script language="JavaScript">
var now=new Date()
var hr
hr=now.getHours()
if (hr==0)
{document.write("Mid-Night 12 o'clock now , Good Nigt! Get up early
tomorrow!")}
if (hr==1)
{document.write("OH! 1 o'clock am now , It's time to sleep.")}
if (hr==2)
{document.write("WOW! You are not sleeping at 2 o'clock midnight!")}
if (hr==3)
{document.write("My God! , You are stay up at 3 o'clock midnight!!!")}
if (hr==4)
{document.write("OH! 4 o'clock! You stay up whole night or just get up so
early?")}
if (hr==5)
{document.write("Good Mornning! You get up so early at 5 o'clock for doing
something?")}
if (hr==6)
{document.write("Good Mornning! At 6 o'clock you can prepare
breakfast?")}
if (hr==7)
```

```
{document.write("Good Morning! At 7 o'clock you want to school or go to  
work?")}  
if (hr==8)  
{document.write("At 8 o'clock, have you had you breakfast or gone to work?  
")}  
if (hr==9)  
{document.write("9 o'clock now, do you begin to work?")}  
if (hr==10)  
{document.write("10 o'clock now, are you very busy?")}  
if (hr==11)  
{document.write("11 o'clock now! hungry ?! It will be lunch time.")}  
if (hr==12)  
{document.write("12 o'clock now! It is time to lunch!")}  
if (hr==13)  
{document.write("1 o'clock now! do you want to have a break?")}  
if (hr==14)  
{document.write("2 o'clock now! are you working very busy?")}  
if (hr==15)  
{document.write("3 o'clock now! you have so many job to do?")}  
if (hr==16)  
{document.write("4 o'clock now!! It seems you look tired!")}  
if (hr==17)  
{document.write("5 o'clock now!! It's time to get off work?")}  
if (hr==18)  
{document.write("6 o'clock now!!!May be you have come home after  
work!")}  
if (hr==19)  
{document.write("7 o'clock now! Dinner time!")}  
if (hr==20)
```

```
{document.write("8 o'clock now!! Time for internet?")}  
if (hr==21)  
{document.write("9 o'clock now!! It is time for TV!")}  
if (hr==22)  
{document.write("10 o'clock now!! Are you still online?")}  
if (hr==23)  
{document.write("11 o'clock now!! Are you tired!")}  
</script></body></html>
```

36. Twinkling Text

Look! I am twinkling!

Source Code:

```
<html>
<head>
<title>Twinkling Text</title>
</head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<body>
<br>
<br>
<script language="JavaScript">
function colorArray() {
this.length = colorArray.arguments.length;
for (var i = 0; i < this.length; i++) {
this[i] = colorArray.arguments[i]; }
}
var twinkleText = "<h1>Look! I am twinkling!</h1>";
var count = 0;
var color = new colorArray("#000000", "#FFCC33",
"#0000FF", "#33ffff", "#CC6666", "#6699FF");
document.write('<div id="text"><center>'+twinkleText+'</center></div>');
function updateColor(){
document.all.text.style.color = color[count];
(count < color.length-1) ? count++ : count = 0; }
setInterval("updateColor()",200);
</script>
</body>
</html>
```


37. Login Page

Username: Smith Password: 123

Enter Your Information	
Username:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Login"/>	

Source Code:

```

<html><head>
<title>Login: Username, Password</title>
</head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<body>
<br><br><center><br><br>
<script language=JavaScript>
function checking(){
if(document.myForm.username.value==""||document.myForm.passwrд.value=
{window.alert("Please enter username &
password.");document.myForm.username.focus();}
else{
if(document.myForm.username.value=="Smith"&&document.myForm.passw
{
    window.alert("Login successfully, Welcome,
"+document.myForm.username.value+ " !")
location.href="http://www.google.com"; }
else{ window.alert("Sorry, Wrong password!") }
} }
</script>
<form name="myForm">

```

```
<table border=2 cellpadding=5 cellspacing=0 >
  <tr><td colspan=2 align=center>
    <font size=3 color=#993366><b>Enter Your Information</b></font>
  </td></tr>
  <tr><td>
    <font size=3 color=#993366><b>Username:</b></font></td>
    <td><input type="text" name="username" value="" size=10>
  </td></tr>
  <tr><td>
    <font size=3 color=#993366><b>Password:</b></font></td>
    <td><input type="password" name="passwrđ" value="" size=10>
  </td></tr>
  <tr><td colspan=2 align=center>
    <input type="button" name="btn" value=" Login "
    onClick="checking();return false;">
  </td></tr>
</table>
</form>
</center></body></html>
```

38. Design window size

</form>

</body>

</html>

39. View Source Codes

Pleas enter an URL of a website.

Source Code:

```
<html>
<head>
<title>View Source Code</title>
</head>
<body>
<br><br>
<h4 align="center">Pleas enter an URL of a website. </h4>
<script language=JavaScript>
function view(){
var sourceCodes=document.forms[0].URL.value
window.location="view-source:"+sourceCodes;
}
</script>
<form>
<div align="center">
<input type="text" name="URL" value="http://" size=40 >
</div>
</form>
<form>
<div align="center">
<input type="button" value="View Source Codes" onClick=view()>
</div>
</form>
</body>
</html>
```


40. Check digital input

Prevent non-digital input.

Check Digital Input

Check Digital

Source Code:

```
<script language="javascript">
function checkDigitals()
{
if(isNaN(myForm.num.value)){
    alert("Please enter a digital number!");
    myForm.num.focus();
    myForm.num.value=""
    return (false);
}
else
{
    alert("Input correct!");
}
}
</script>
<body>
<br>
<h4>
<div align="center">Check Digital Input
</div></h4>
<form name=myForm>
    <div align="center">
        <input type=text name=num size=25>
        <input type=button onClick="checkDigitals()" value= "Check Digitals">
    </div>
</form>
```

</body>

41. Check empty input

Prevent nothing input.

Check Empty Input

Phone:

Email:

Message:

Source Code:

```
<html>
<head>
<title>Check Empty Input</title>
<script language="JavaScript">
function checkEmpty(myForm)
{
if (myForm.phone.value == "")
{
alert("Please enter phone number!");
myForm.email.focus();
return (false);
}
if (myForm.email.value == "")
{
alert("Please enter email address!");
myForm.message.focus();
return (false);
}
if (myForm.message.value == "")
{
alert("Please leave a message!");
myForm.phone.focus();
return (false);
}
}
}
</script>
</head>
```

```
<body>
<br>
<center>
  <p><strong>Check Empty Input</strong></p>
  <br>
</center>
<form name="myForm" method="post" onSubmit="javascript:return
checkEmpty(this);">
<table width="36" border="0" cellspacing="1" cellpadding="1"
align="center">
<tr>
<td>Phone:
  <input type="text" name="phone" size=30>
</td>
</tr>
<tr>
<td>Email:
  <input type="text" name="email" size="30">
</td>
</tr>
<tr>
<td>Message:<br>
  <textarea name="message" cols=37 rows=6></textarea>
</td>
</tr>
<tr>
<td>
<div align="right">
```

```
<input type="submit" name="pub" value="Check Empty">
</div>
</td>
</tr>
</table>
</form>
</body>
</html>
```

42. Check picture uploading

Prevent non-image upload

Only gif, jpg, bmp, png allowed to upload!

Choose File No file chosen

Upload Picture

Source Code:

```
<html>
<script language=JavaScript>
function uploadPicture(){
    myForm.myPicture.src=myForm.pic.value;
    var checkFile;
    checkFile=myForm.pic.value.substring(myForm.pic.value.lastIndexOf('.')
    checkFile=checkFile.toUpperCase());
    switch(checkFile){
    case "GIF":
        alert("You are uploading GIF picture, ok!");
        break;
    case "JPG":
        alert("You are uploading JPG picture, ok!");
        break;
    case "BMP":
        alert("You are uploading BMP picture, ok!");
        break;
    case "PNG":
        alert("You are uploading PNG picture, ok!");
        break;
    default:
```

```
        alert("Error! Only gif, jpg, bmp, png pictures allowed to upload!")
        break;
    }}
</script>
<title>Check Picture Upload</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<body>
<br>
<p align="center" >Only gif, jpg, bmp, png allowed to upload! </p>
<form name="myForm" id=myForm>
<p align=center>
    <input name=pic type="file" size="10">
</p>
<p align=center>
    <input name="button" type=button onClick="uploadPicture()"
value='Upload Picture ' />
</p>
<p align="center"><img name="myPicture" id="myPicture"/>
</p>
</form>
</body>
</html>
```

43. Mouse coordinates

Mouse Coordinates

X: Y:

Source Code:

```
<html>
<script language="JavaScript">
if (navigator.appName == 'Netscape'){
    document.captureEvents(Event.MOUSEMOVE);
    document.onmousemove = mousePosition;
}
function mousePosition(e) {
if (e.screenX != document.myForm.x.value && e.screenY !=
document.myForm.y.value){
document.myForm.x.value = e.screenX;
document.myForm.y.value = e.screenY;
} }
function cursorCoordinates(){
if (window.event.x != document.myForm.x.value && window.event.y !=
document.myForm.y.value) {
document.myForm.x.value = window.event.x;
document.myForm.y.value = window.event.y;
}}
</script>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<body onmousemove="cursorCoordinates()">
<div align="center"><p>&nbsp;</p>
    <p>Mouse Coordinates <br><br></p></div>
<form name="myForm">
    <div align="center">
        X: <input type="text" name="x" size="3">
```

```
y: <input type="text" name="y" size="3">  
</div>  
</form></body></html>
```

44. Prevent malicious input

Prevent malicious inputs

No any letter or symbol allowed to input!

Only digital allowed to input:

Source Code:

```
<html>
<head>
<title>Prevent malicious input</title>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<script type="text/JavaScript">
function digital(field, event)
{
    var key, keyChar;
    if (window.event) key = window.event.keyCode;
    else if (event) key = event.which;
    else return true;
    if (key == null || key == 0 || key == 8 || key == 13 || key == 27)
        return true;
    keyChar = String.fromCharCode(key);
    if (/^d/.test(keyChar)) {
        window.status = "";
        return true;
    }
    else {
        window.status = "Only digital number allowed!";
        return false;
    }
}
</script>
</head>
```

```
<body>
<br>
<center>
<h2>Prevent malicious inputs </h2>
</center>
<div align="center">
  <p> No any letter or symbol allowed to input! </p>
</div>
<form name="myForm" id="myForm" action="#" method="get">
  <div align="center">Only digital allowed to input:
  <input type="text" name="num" id="num"
size="10" maxlength="10"
  onkeypress="return digital(this, event);"
title="Prevent malicious input">
  </div>
</form>
</body>
</html>
```


45. Typing Effect

Words are typed letter by letter automatically

```
Hi! JavaScript in 8 Hours is a very good book! You  
can learn a lot of skills by this book, if you are  
interested in programming, you also can learn jQuery  
in 8 Hours, AngularJS in 8 Hours, which can help you  
become an excellent programmer. But you need to  
spend many hours to study all those programs so that  
you can use them in job easily.....
```

Source Code:

```
<html>
<head>
<title>Typing effect</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<script>
var i = 0
var displayWords= "Hi!" +
" JavaScript in 8 Hours is a very good book! " + "You can learn a lot of skills
by this book, if you are interested in programming, you also can learn jQuery
in 8 Hours, AngularJS in 8 Hours, which can help you become an excellent
programmer. But you need to spend many hours to study all those programs
so that you can use them in job easily....."
function marquee()
{
var wordSize= displayWords.length
document.show.typingEffect.value= document.show.typingEffect.value +
displayWords.charAt(i)
i++
var timeID= setTimeout("marquee()",100)
if (i >= wordSize)
    {clearTimeout(timeID); i=0}
}
</script>
</head>
<body onLoad="marquee()">
<br>
<table WIDTH="96%" BORDER="0" CELSPACING="5"
```

```
CELLPADDING="5" align="center">
<tr>
<td WIDTH="100%"><font FACE="ARIEL,HELVETICA" SIZE="1">
<form
name="show">
<p align="center">
<textarea rows="9" cols="50" wrap="virtual" name="typingEffect">
</textarea>
</p>
</form>
</td>
</tr>
</table>
</body>
</html>
```

46. Set background color

Enter the background color you like.

Source Code:

```
<html>
<head>
<title>Choose backgroun color</title>
<script language="JavaScript">
function chooseColor(form) {
if (form.color.value == "")
alert("Please enter the background color you like")
else {
document.bgColor=(""+form.color.value+"");
}
}
</script>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
</head>
<body>
<div align="center">
<p>&nbsp;</p>
<p> Enter the background color you like.</p>
<br>
</div>
<form>
<div align="center">
<input type="text" name="color">
<input type="button" name="btn" value="Click"
onClick="chooseColor(this.form)">
</div>
```

</form></body></html>

47. Select Menu

Select Menu

Select a website: ▼

Source Code:

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<title>select menu</title>
</head>
<body>
<br><center>
<script type="text/javascript">
function toWebsite(menu)
{
var myChoice = menu.selectedIndex;
if (myChoice!= 0)
window.location = menu.options[myChoice].value;
}
</script>
<form name="myForm" id="myForm" method="post" >
<h3>Select Menu</h3><br>
<select name="sites" id="sites" onChange="toWebsite(this);">
<option value="" selected="selected">Select a website:</option>
<option value="http://www.amazon.com">Amazon</option>
<option value="http://www.google.com">Google</option>
<option value="http://www.yahoo.com">Yahoo</option>
<option value="http://www.apple.com">Apple</option>
</select>
</form>
</center>
```


</body>

</html>

Source Code:

```
<html>
<head>
<title>Text scroll up</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
</head>
<body>
<br><br><br>
<center>
<div id="textSlideUp" style="width:100%;height:100px;overflow:hidden"
onMouseOver="slideAmount=0"
onmouseout="slideAmount=1">
  AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA<br/>
  BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB<br/>
  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC<br/>
  DDDDDDDDDDDDDDDDDDDDDDDDDDDDD<br/>
  EEEEEEEEEEEEEEEEEEEEEEEEEEEEE<br/>
  FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF<br/>
  GGGGGGGGGGGGGGGGGGGGGGGGGGGGG<br/>
  HHHHHHHHHHHHHHHHHHHHHHHHHHHHH<br/>
  IIIIIIIIIIIIIIIIIIIIIIIIIIIII<br/>
  JJJJJJJJJJJJJJJJJJJJJJJJJJJJ<br/>
  KKKKKKKKKKKKKKKKKKKKKKKKKKKK<br/>
  LLLLLLLLLLLLLLLLLLLLLLLLLLLLLL<br/>
  MMMMMMMMMMMMMMMMMMMMMMMMMMMMM<br/>
  NNNNNNNNNNNNNNNNNNNNNNNNNNNN<br/>
</div>
```

```
</center>
<script language="javascript">
var slideUp = document.getElementById("textSlideUp");
var lineHigh = 42;
var lineNumber = 7;
var slideAmount = 1;
function move() {
    slideUp.scrollTop += slideAmount;
    if ( slideUp.scrollTop == lineNumber * lineHigh )
        slideUp.scrollTop = 0;
    if ( slideUp.scrollTop % lineHigh == 0 ) {
        window.setTimeout( "move()", 5 );
    } else {
        window.setTimeout( "move()", 60 );}
}
slideUp.innerHTML += slideUp.innerHTML;
window.setTimeout( "move()", 1000 );
</script></body></html>
```

49. Magnify texts

Text will be magnified 200% when mouse hovers over it.

Please hover following texts

JavaScript in 8 Hours

Jquery in 8 Hours

Java in 8 Hours

Source Code:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Magnify texts</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
</head>
<body>
<p align="center">&nbsp;</p>
<p align="center"><strong>Please hover following texts</strong>
</p>
<p>
<hr>
</p>
<p align="center" onMouseOver="this.style.zoom='200%'"
onMouseOut="this.style.zoom='normal'">
JavaScript in 8 Hours<br>
Jquery in 8 Hours<br>
Java in 8 Hours<br>
</p>
</body>
</html>
```

50. Five star review

Please give a five star review:

★★★★★

Review

Source Code:

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Five star review</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
</head>
<body><br><br><br>
<div align="center">Please give a five star review: <br><br>
  </div>
<table width="200" border="0" align="center">
  <tr>
    <td><center><script>
var starNumber=0;
function stars()
{
  starNumber=event.srcElement.id.slice(-1);
  for (var i=1;i<=5;i++) eval("id"+i).innerText=" ☆ ";
  for (var j=1;j<=starNumber;j++) eval("id"+j).innerText=" ★ ";
}
function rating()
{
  alert("Your review is: "+starNumber+" stars. Thank you!");
}
for (var i=1;i<=5;i++)
{
document.write('<span id="id'+i+'" onclick="stars()"
style="cursor:hand;"> ☆ </span>');
}
document.write('<p><button onclick="rating()">Review</button></p>');
</script></center></td>
</tr>
</table>
</body>
```


</html>

Appendix

JavaScript Tests & Answers

Tests

Please choose the correct answer.

(1)

```
<html>
  <head>
    <title>Call a Function</title>
  </head>
  <body>
    <script language="javascript">
      fill in here myFunction( ) // declare a function
    {
      alert("Hello! A function has been called!")
    }
    </script>
    <form>
      <br><br><br><br><br><br><br>
      <center><input name="button" type="button"
onclick="myFunction( )" value="Call Function"></center>
    </form>
  </body>
</html>
```

1. var B. void C. declare D. function

(2)

```
<html>
<head>
<title>For Loop</title>
</head>
<body>
<script language="javascript">
fill in here (a=1;a<=6;a++) // loop statement
document.write(
"<h"+a+">For Loop Example!<br></h"+a+">");
</script>
</body>
</html>
```

1. while B. do C. for D. switch

(3)

```
<html>
<head>
<title>
JavaScript Test
</title>
</head>
```

```
<body>
<script language="javascript">
function add(num1,num2)
{
fill in here num1+num2; // send back a result to caller
}
alert("3 + 5 = " + add( 3, 5 ));
</script>
</body>
</html>
```

1. return B. submit C. send D. back

(4)

```
<html>
<head>
<title>
JavaScript Test
</title>
</head>
<body>
<script>
var number=20;
fill in here ( number ) { // evaluate the variable
case 10 : alert ( "Running case 10" ); break ;
```

```
case 20 : alert ( "Running case 20" ); break;
case 30 : alert ( "Running case 30" ); break;
default : alert ( "Running default code" ); break; }
</script>
</body>
</html>
```

1. for B. while C. switch D. evaluate

(5)

```
<html>
<head>
<title>Conditional Operator</title>
</head>
<body>
<script>
var a=100; var b=200;
var result=(a<b) fill in here "apple" : "banana";
// conditional operator
alert ( result );
</script>
</body>
</html>
```

1. == B. ? C. != D. &&

(6)

```
<html>
```

```
<head>
```

```
<script>
```

```
var oldArray = fill in here Array(0,1,2,3,4,5); // create an array
```

```
document.write(
```

```
"Original array is: "+oldArray.join()+"<br>");
```

```
var newArray=oldArray.reverse();
```

```
document.write(
```

```
"Reversed array is: "+newArray.join()+"<br>");
```

```
</script>
```

```
</head>
```

```
</html>
```

1. array B. set C. create D. new

(7)

```
<html>
```

```
<head>
```

```
<script>
```

```
var dateObj=new fill in here; // create a Date object
```

```
document.write(  
"The current month is: "+ (dateObj.getMonth()+1));  
</script>  
</head>  
</html>
```

1. object B. Date() C. dateObj D. Day()

(8)

```
<html>  
<head>  
<script>  
var oldText="Java in 8 Hours"  
var newText= oldText.fill in here; // change to uppercase  
document.write("Original: Java in 8 Hours<br>");  
document.write("Uppercase is: "+ newText);  
</script >  
</head>  
</html>
```

1. UpperCase() B. set C. toUpperCase() D. var

(9)

```
<html>
<head>
<script>
var number1 = 20;
var number2 = 50;
var number3 = 80;

document.write(
"The maximum number among 20, 50, 80 is: "+
fill in here.max(number1,number2,number3)+"<br><br>");
// Math method
document.write(
"The minimum number among 20, 50, 80 is: "+
fill in here.min(number1,number2,number3)+"<br><br>");
// Math method
</script>
</head>
</html>
```

1. Obj B. Mathematics C. Set D. Math

(10)

```
<html>
<head>
```

```
<script>
function show1(){
    var y=fill in here.getElementById("textID"); // DOM
y.value ="Welcome!";
}
function show2(){
    var y=fill in here.getElementById("textID"); // DOM
y.value ="Good Bye!";
}
</script>
</head>
<body><br><br>
<center>
<input type="text" id="textID"
onMouseOver=" show1()" onMouseOut=" show2()"/>
</center>
</body>
</html>
```

1. document B. dom C. object D. window

(11)

```
<html>
<body>
<center>
```

```
<form id="myForm" fill in here="get" action="xxx.php">
<!-- the method to send data to server -->
Username: <input type="text",id="txt1" /><br><br>
Password: <input type="text",id="txt2" /><br><br>
<input type="button" value="Reset" onClick="doReset()"/>
<script>
function doReset(){
  var myForm= document.getElementById("myForm");
  myForm.reset();
}
</script>
</center>
</body>
</html>
```

1. param B. method C. send D. data

(12)

```
<html>
```

```
<head>
```

```
<title>
```

```
JavaScript Codes
```

```
</title>
```

```
</head>
```

```
<body>
```

```
<script>
var arr = new Array( 2, 5, 3, 1, 4, 6 );
arr. fill in here; // sort the array elements
var sor = arr.join(",");
document.write( sor );
</script>
</body>
</html>
```

1. classify() B. arrange() C. set() D. sort()

```
(13)
<html>
<head>
<title>
JavaScript Codes
</title>
</head>
<body onload="autoTimer()">
<script>
var count=0;
function autoTimer( ) // user-defined function
{
count++;
document.write( count );
```

```
window.fill in here ( "autoTimer()" , 5000 );  
// set interval time to perform an action repeatedly.  
}  
</script>  
</body>  
</html>
```

1. set() B. setTime() C. setTimeout() D. timer()

(14)

```
<html>  
<head>  
<title>  
JavaScript Codes  
</title>  
</head>  
<body>  
<script>  
var ask = window.fill in here ("Do you like JavaScript?");  
// prompt to input data  
alert ( ask );  
</script>  
</body>  
</html>
```

1. prompt B. data C. input D. alert

(15)

<html>

<head>

<title>

JavaScript Codes

</title>

</head>

<body **fill in here** = "test()"> <! --load event -->

<script>

function test(){

 alert ("Welcome to my website!");

}

</script>

</body>

</html>

1. load B. onload C. event D. method

(16)

<html>

```
<body>
<br><br>
<center>
<form fill in here ="myForm" action=""> <!-- set id for a form- -->
Username: <input type="text" />
<br><br>
Password: <input type="password">
</form>
<script>
document.write("Note: ID of the Form is: "
+ document.getElementById("myForm").id);
</script>
</center>
</body>
</html>
```

1. setID B. set C. name D id

```
(17)
<html>
<body>
<script>
var mystring = "JavaScript for Beginners";
var myarray = mystring. fill in here ( " " );
// convert string to array elements
```

```
document.write( "<br>" + myarray[0]);
document.write( "<br>" + myarray[1]);
document.write( "<br>" + myarray[2]);
</script>
</body>
</html>
```

A. convert B. split C. toArray D. change

(18)

```
<html>
<body>
<script>
var ask = window. fill in here ("Are you sure?");
// confirm your input
if ( ask == true )
{ alert ( "All Right!" ); }
else
{ alert ("Cancel!"); }
</script>
</body>
</html>
```

1. confirm B. validate C. verify D. proof

(19)

```
<html>
```

```
<form>
```

```
<input type="button" value="Previous" fill in here="history.back()">
```

```
// click the button, the web will go back to previous page
```

```
</form>
```

```
</html>
```

1. click B. link C. onClick D. url

(20)

```
<html>
```

```
<body>
```

```
<ol>
```

```
<li>Red</li>
```

```
<li>Yellow</li>
```

```
<li>Green</li>
```

```
</ol>
```

```
<button onclick="myFunction()">Click</button>
```

```
<p id="show"></p>
```

```
<script>
```

```
function myFunction() {  
var col = document. fill in here ("li");  
// get elements by their tag names  
document.getElementById("show").innerHTML = col[2].innerHTML;  
}  
</script>  
</body>  
</html>
```

1. get B. tag C. name D. getElementsByTagName

Answers

1. D
2. C
3. A
4. C
5. B
6. D
7. B
8. C
9. D D
10. A A
11. B
12. D
13. C
14. A
15. B
16. D
17. B
18. A
19. C
20. D

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