

JavaScript – Examples

Example 1) Design a web page using HTML code and java script to enter N then display the multiplication table of N.

```
<html> <body>
<table width=25% border=3>
<tr><td>Multiplication</td><td>result</td></tr>
<SCRIPT Language="JavaScript">
var count, N,N1;
N=window.prompt("Enter a Number","0");
N1=parseInt(N);
for (count=1 ; count <=10 ; count++)
{
    document.writeln("<tr>");
    document.writeln("<td align=center>" + N1+" * "+count + " =</td>");
    document.writeln("<td align=center>" + count*N1 + "</td>");
    document.writeln("</tr>");
}
</SCRIPT> </table></body></html>
```

Multiplication	result
6 * 1 =	6
6 * 2 =	12
6 * 3 =	18
6 * 4 =	24
6 * 5 =	30
6 * 6 =	36
6 * 7 =	42
6 * 8 =	48
6 * 9 =	54
6 * 10 =	60

Example 1) Design a web page using HTML code and java script to enter N then display the multiplication table of N. Note: the input is through HTML.

```
<html><head>
<SCRIPT Language="JavaScript">
function mulN10()
{
    var N=myform.t1.value;
    var N1=parseInt(N);
    document.writeln("<table width='25%' border='1'>");
    document.writeln("<tr><td>Multiplication</td><td>result</td></tr>");
    for (count=1 ; count <=10 ; count++)
    {
        document.writeln("<tr>");
        document.writeln("<td align=center>" + N1+" * "+count + " =</td>");
        document.writeln("<td align=center>" + count*N1 + "</td>");
        document.writeln("</tr>");
    }
    document.writeln("</table>");
}
</SCRIPT></head><body>
<form name="myform">
<input type="text" name="t1">
<input type="button" value="mulTable" onclick="mulN10()">
</form></body></html>
```

Example 2) Write a program using Java Script to read a full name as an input, and print the name after capitalizing the first letter of each name.

(ex: mohammed hussain ali = Mohammed Hussain Ali)

```
<script type = "text/javascript">
function up()
{
    var str=myform.nam.value;
    var i,pr,str1,pr1;
    pr=str.charAt(0);
    str1=pr.toUpperCase();
    for (i=1;i <=str.length;i++)
    {
        pr=str.charAt(i);
        if(pr!=" ")
        {
            str1=str1+pr;
        }
        else
        {
            i=i+1;
            pr1=str.charAt(i);
            pr2=pr1.toUpperCase();
            str1=str1+pr+pr2;
        }
    }
    myform.res.value=str1;
}
</script></head><body>
<form name="myform">
Full Name: <input type="text" name="nam"><br><br>
Full Name: <input type="text" name="res"><br>
<input type="button" value="Upper" onclick="up()">
</form></body></html>
```

Example 3) Write a program using Java Script to read a sentence as an input, and print each word in an HTML table cell as an output.

```
<html><head><script type = "text/javascript">
function printset()
{
    var str=myform.nam.value;
    var i;
    var ar=new Array();
```

```

ar=str.split( " " );
document.writeln("<table border=\\\"1\\\">");
for (i=0 ; i <ar.length ; i++)
{
    document.writeln("<tr><td>");
    document.writeln(ar[i]);
    document.writeln("</td></tr>");
}
document.writeln("</table>");
}
</script></head><body>
<form name="myform">
<input type="text" name="nam">
<input type="button" value="Print" onclick="printset()">
</form></body></html>

```

Example 4) Write a program using Java Script to read a sentence as an input, and print each letter in an HTML table cell as an output.

```

<html><head><script type = "text/javascript">
function printset()
{
    var str=myform.nam.value;
    var i;
    document.writeln("<table border=\\\"1\\\">");
    for (i=0 ; i <=str.length ; i++)
    {
        document.writeln("<tr><td>");
        document.writeln(str.substring(i, i+1));
        document.writeln("</td></tr>");
    }
    document.writeln("</table>");
}
</script></head><body>
<form name="myform">
<input type="text" name="nam">
<input type="button" value="Print" onclick="printset()">
</form></body></html>

```

Input	window.prompt("Enter String","H");
Method	str.charAt(i)
Method	str.substr(i, 1)

Example 5) Write a program using Java Script to read five numbers and sort the numbers ascending order.

```

<html><head><script type = "text/javascript">
function printsort()
{
    var ar=new Array(5);
    ar[0]=parseInt(myform.n1.value);
    ar[1]=parseInt(myform.n2.value);
    ar[2]=parseInt(myform.n3.value);
    ar[3]=parseInt(myform.n4.value);
    ar[4]=parseInt(myform.n5.value);
    var i,j,x;
    for (i=0;i<5;i++)
    {
        for (j=i;j<5;j++)
        {
            if (ar[i]>ar[j])
            {
                x=ar[i]; ar[i]=ar[j]; ar[j]=x;
            }
        }
    }
    for (i=0;i<5;i++)
        document.writeln(ar[i]);
}
</script></head><body><form name="myform">
<input type="text" name="n1"><br>
<input type="text" name="n2"><br>
<input type="text" name="n3"><br>
<input type="text" name="n4"><br>
<input type="text" name="n5"><br>
<input type="button" value="Sort" onclick="printsort()">
</form></body></html>

```

Example 6) Write a program using Java Script to calculate array operation (+, -, *) for tow (2x2) matrix.

```

<html><head><script type = "text/javascript">
function Add()
{
    myform.r1.value=parseInt(myform.n1.value)+parseInt(myform.m1.value);
    myform.r2.value=parseInt(myform.n2.value)+parseInt(myform.m2.value);
    myform.r3.value=parseInt(myform.n3.value)+parseInt(myform.m3.value);
    myform.r4.value=parseInt(myform.n4.value)+parseInt(myform.m4.value);
}
function Sub()
{
    myform.r1.value=parseInt(myform.n1.value)-parseInt(myform.m1.value);
    myform.r2.value=parseInt(myform.n2.value)-parseInt(myform.m2.value);
}

```

```

    myform.r3.value=parseInt(myform.n3.value)-parseInt(myform.m3.value);
    myform.r4.value=parseInt(myform.n4.value)-parseInt(myform.m4.value);
}
function Mul()
{
    var arr1=new Array(4);
    var arr2=new Array(4);
    var arr3=new Array(4);
    arr1[0]=parseInt(myform.n1.value);arr1[1]=parseInt(myform.n2.value);
    arr1[2]=parseInt(myform.n3.value);arr1[3]=parseInt(myform.n4.value);
    arr2[0]=parseInt(myform.m1.value);arr2[1]=parseInt(myform.m2.value);
    arr2[2]=parseInt(myform.m3.value);arr2[3]=parseInt(myform.m4.value);

    arr3[0]=arr1[0]*arr2[0]+ arr1[1]*arr2[2];
    arr3[1]=arr1[0]*arr2[1]+ arr1[1]*arr2[3];
    arr3[2]=arr1[2]*arr2[0]+ arr1[3]*arr2[2];
    arr3[3]=arr1[2]*arr2[1]+ arr1[3]*arr2[3];

    myform.r1.value=arr3[0];myform.r2.value=arr3[1];
    myform.r3.value=arr3[2];myform.r4.value=arr3[3];
}
</script></head><body><form name="myform">
<table><tr><td>
<table border="2">
<tr><td><input type="text" name="n1"></td><td><input type="text" name="n2"></td></tr>
<tr><td><input type="text" name="n3"></td><td><input type="text" name="n4"></td></tr>
</table></td><td>
<table border="2">
<tr><td><input type="text" name="m1"></td><td><input type="text" name="m2"></td></tr>
<tr><td><input type="text" name="m3"></td><td><input type="text" name="m4"></td></tr>
</table></td><td><table border="2">
<tr><td><input type="text" name="r1"></td><td><input type="text" name="r2"></td></tr>
<tr><td><input type="text" name="r3"></td><td><input type="text" name="r4"></td></tr>
</table></td></tr><tr>
<td><input type="button" value="Add" onclick="Add()"></td>
<td><input type="button" value="Sub" onclick="Sub()"></td>
<td><input type="button" value="Mul" onclick="Mul()"></td></tr>
</table></form></body></html>

```

Example 7) Write a program using Java Script to reverse an input text and kipping the words order in the text as shown.

message:

result:

```
<html>
<head><script language="javascript">
function f2()
{
    var p=myform.n1.value;
    var s,w,p1,pp1;
    s= p.split(" ");
    pp1=" ";
    for (i=0; i<s.length; i++)
    {
        p1=s[i].length;
        for (j=1;j<=p1;j++)
        {
            w=s[i].charAt(p1-j);
            pp1=pp1+w;
        }
        pp1=pp1+" ";
    }
    myform.n2.value=pp1;
}
</script></head><body>
<form name="myform">
message:<input type="text" name="n1"><br><br>
result:<input type="text" name="n2"><br><br>
<input type="button" value="OK" onclick="f2()">
</form></body></html>
```