Maharashtra State Board Class 11 Information Technology Practicals Skill Set 3 Client Side Scripting (JavaScript)
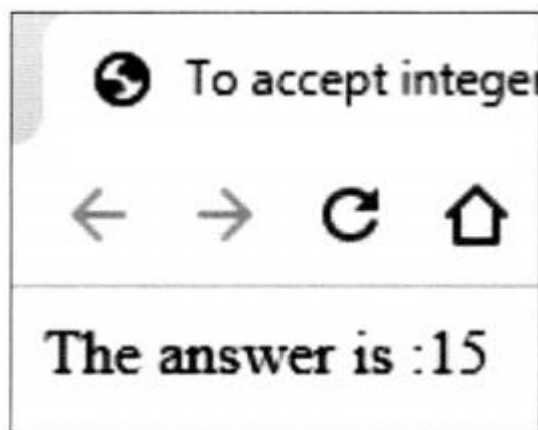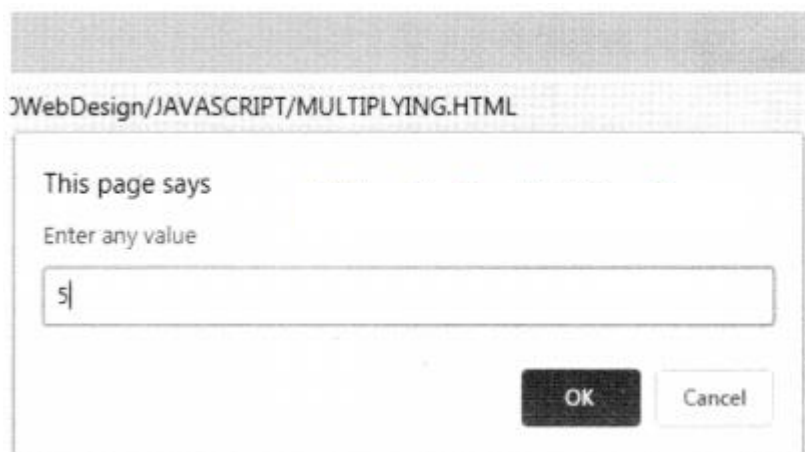
SOP 1: Create a JavaScript program for the following using appropriate variables, JavaScript inbuilt functions, and control structures.

- To accept an integer and display the result by multiplying it with 3.
- To accept two integers and display a larger number of them.
- To check whether the user entered number is positive or negative.

Answer:

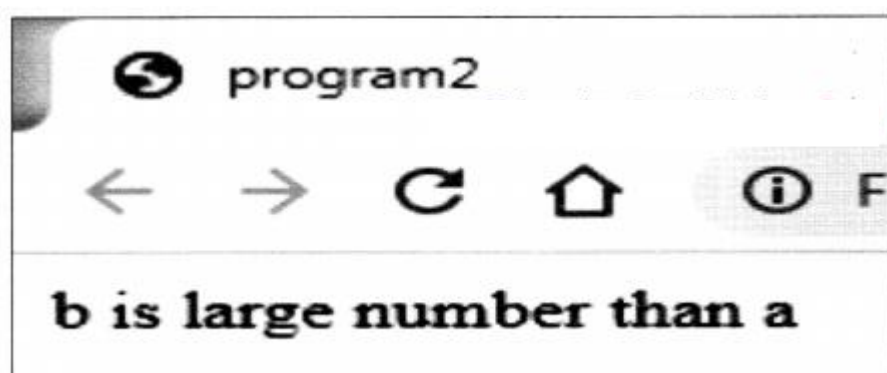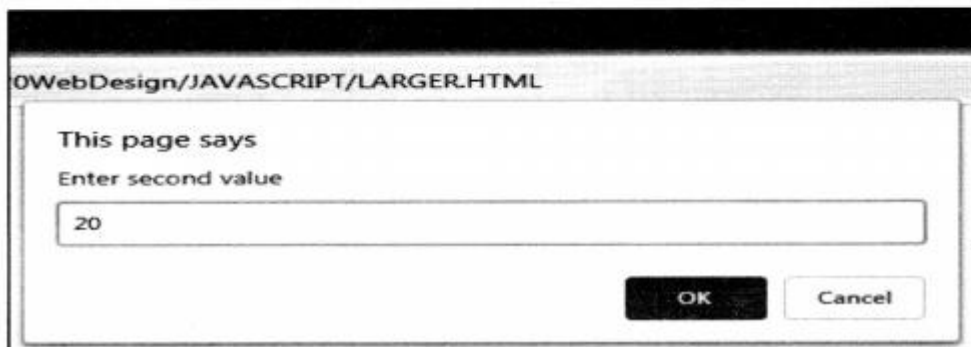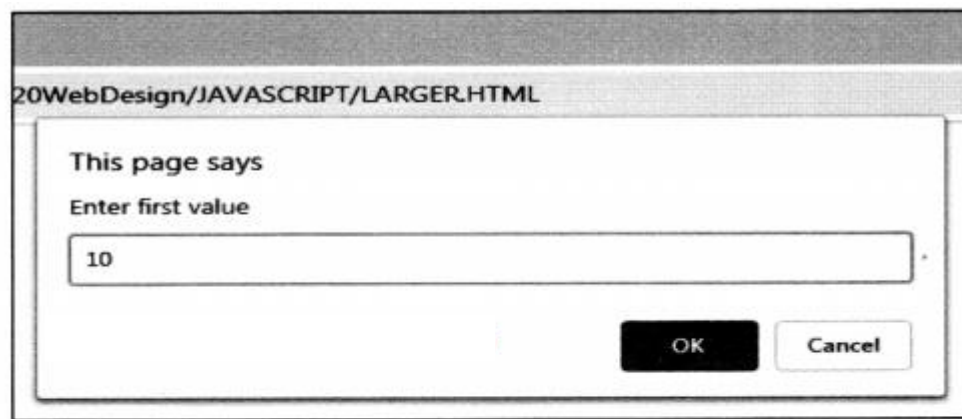To accept integer and display the result by multiplying it with 3.

```
<!DOCTYPE html>
<head>
<title>To accept integer and display the result by multiplying it with 3.</title>
</head>
<body>
<script language="javascript"> var a,no,ans;
a=prompt(Enter any value');
no=parseInt(a);
ans=no*3;
document.
write("The answer is :"+ans);
</script>
</body>
</html>
```
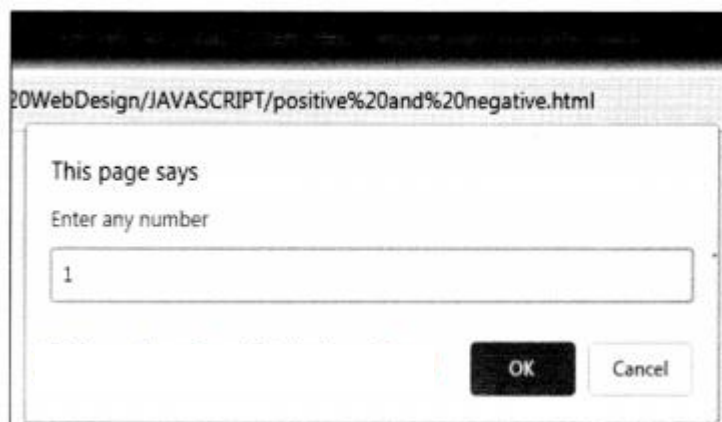

To accept two integers and display larger number of them.
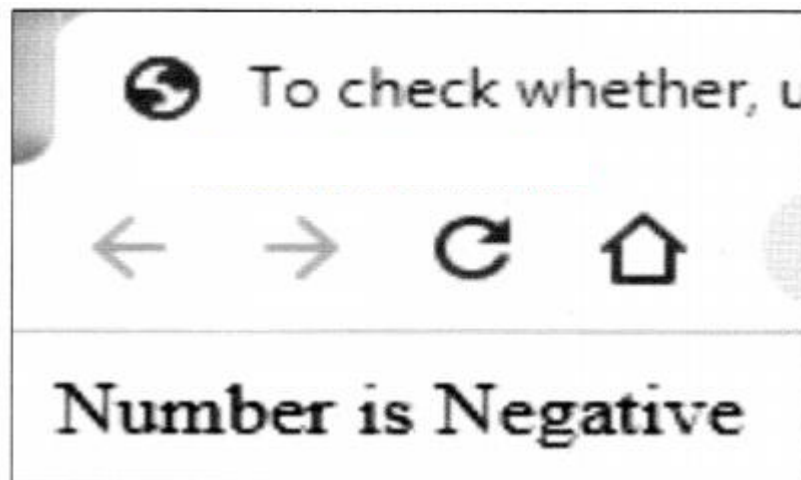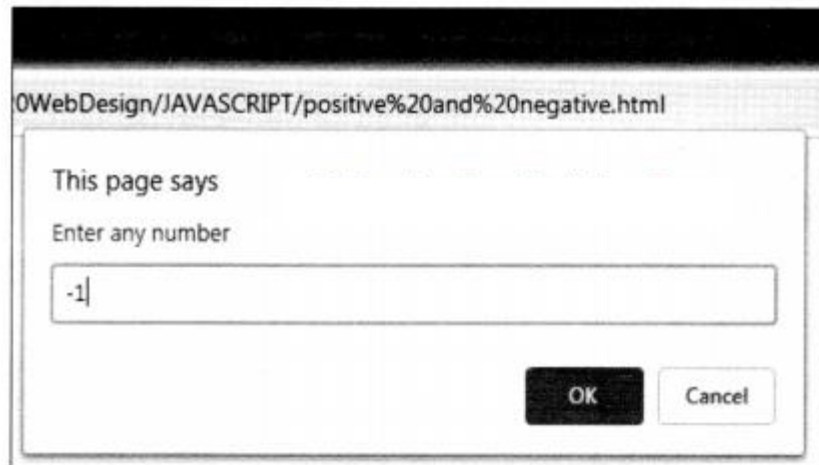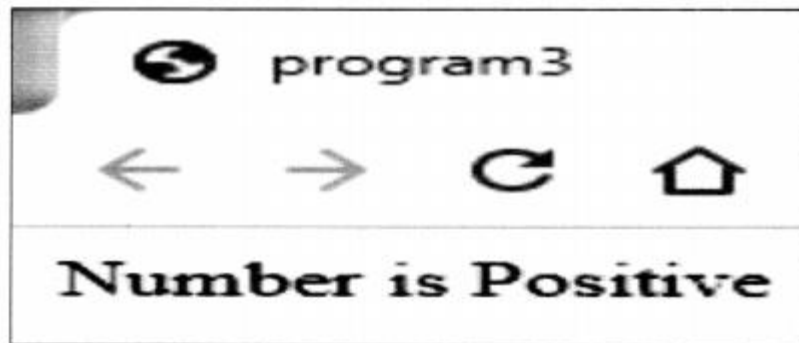
```
<!DOCTYPE html>
<head>
<title>To accept two integers and display larger number of them.</title>
</head>
<body>
<script language="javascript">
var a,b;
a=prompt('Enter first value');
b=prompt('Enter second value');
if(a>b)
document.write("a is large number than b ");
else
document. write("b is large number than a");
</script>
</body>
</html>
```

20WebDesign/JAVASCRIPT/LARGER.HTML

This page says

Enter first value

10

OK   Cancel

0WebDesign/JAVASCRIPT/LARGER.HTML

This page says

Enter second value

20

OK   Cancel

program2

b is large number than a

To check whether, user entered number is positive or negative.

```
<!DOCTYPE html>
<head>
<title>To check whether, user entered number is positive or negative</title>
</head>
<body>
<script language="javascript">
var a,no;
a=prompt('Enter any number');
no=parseInt(a);
if(no>0)
document.write("Number is Positive");
else
document.write("Number is Negative");
</script>
</body>
</html>
```


20WebDesign/JAVASCRIPT/positive%20and%20negative.html

This page says

Enter any number

1

OK   Cancel

program3

← → C ⌂

Number is Positive

0WebDesign/JAVASCRIPT/positive%20and%20negative.html

This page says

Enter any number

-1

OK   Cancel
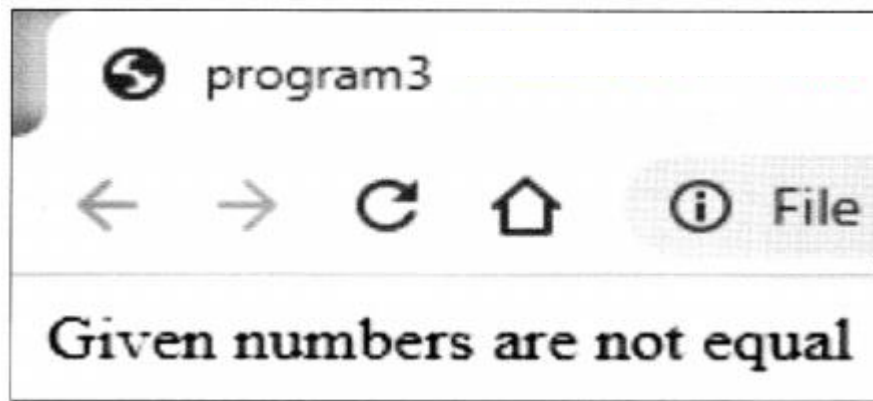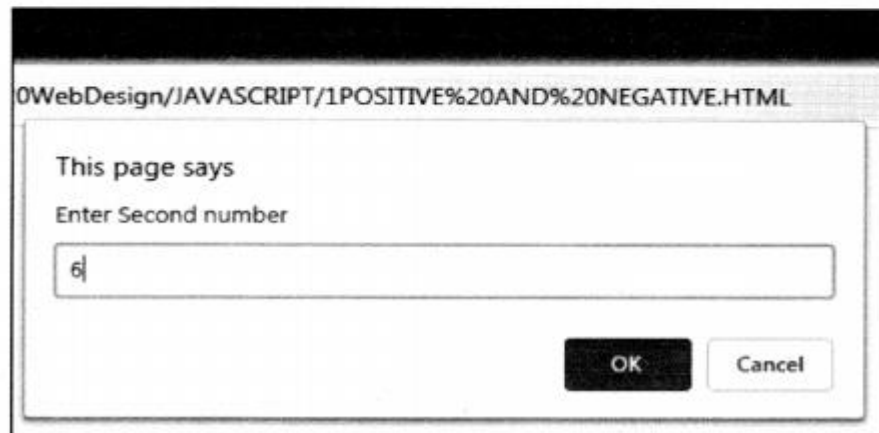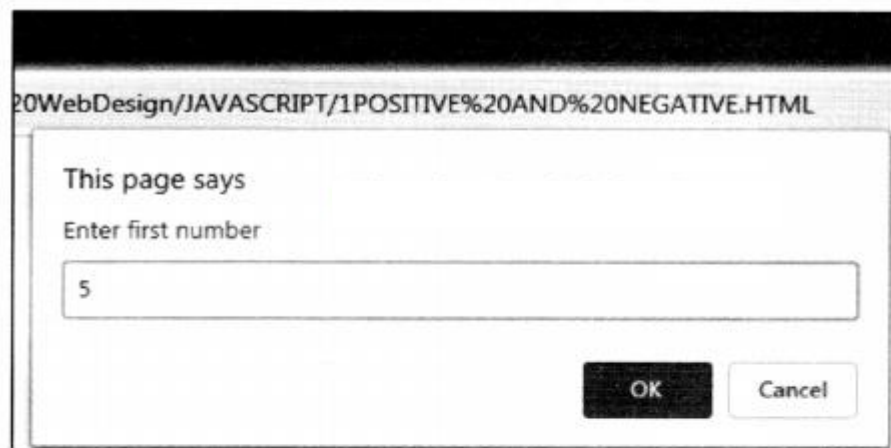
To check whether, u

← → C ⌂

Number is Negative

SOP 2: Create a JavaScript program for the following using appropriate variables, JavaScript inbuilt functions, and control structures.

- To accept two positive or negative numbers and check whether they are equal or not.
- To accept a number and display the square of it.
- To check whether the accepted integer is multiple of 3 or multiple of 7.

Answer:

To accept two positive or negative numbers and check whether they are equal or not.

```
<!DOCTYPE html>
<head>
<title>program3</title>
</head>
<body>
<script language="javascript"> var no1,no2;
no1=prompt('Enter first number');
no2=prompt('Enter Second number');
if(no1==no2)
document.write("Both are equal");
else
document.write("Given numbers are not equal");
</script>
</body>
</html>
```

20WebDesign/JAVASCRIPT/1POSITIVE%20AND%20NEGATIVE.HTML

This page says

Enter first number

5

OK   Cancel

0WebDesign/JAVASCRIPT/1POSITIVE%20AND%20NEGATIVE.HTML

This page says

Enter Second number

6

OK   Cancel

program3

← → C ⌂ ⓘ File

Given numbers are not equal

To accept number and display square of it.

```html
<!DOCTYPE html>
<head>
<title>To accept number and display square of it</title>
</head>
<body>
<script language-'j avascript">
var no,sqr;
no=prompt('Enter Any number');
sqr=no*no;
document, write ("The Square is="+sqr);
</script>
</body>
</html>
```

To check whether the accepted integer is multiple of 3 or multiple of 7.

```
<!DOCTYPE html>
<html>
<head>
<title>To check whether the accepted integer is multiple of 3 or multiple of 7.</title>
</head>
<body>
<script language=JavaScript>
var a;
a=prompt("Enter your first interger / number");
if(a%3==0 || a%7==0)
alert("multiple of 3 or 7");
else
alert("not a multiple of 3 or 7");
</script>
</body>
</html>
```
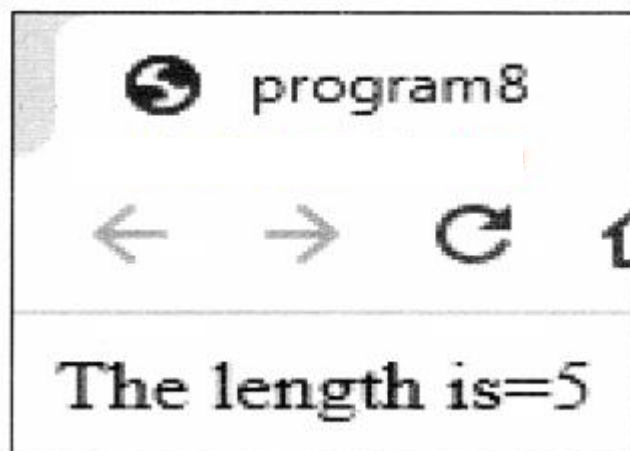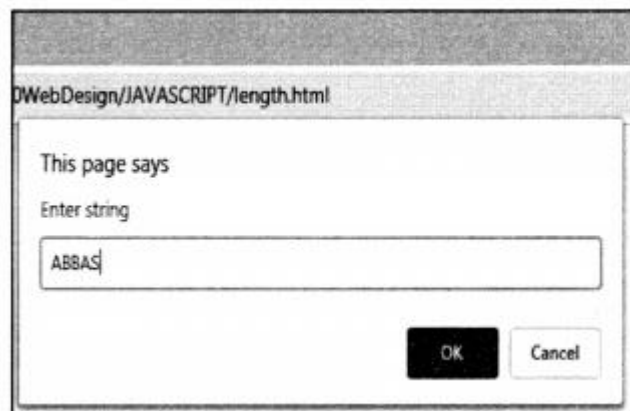

SOP 3: Create a JavaScript program for the following using appropriate variables, JavaScript inbuilt string functions, and control structures.

- To accept a string and calculate its length.
- To accept a string and display it in lowercase and uppercase.
- To check whether the length of the string is 4 or greater.

Answer:
To accept a string and calculate its length.

```
<!DOCTYPE html>
<head>
<title>program8</title>
</head>
<body>
<script language="javascript">
var a;
a=prompt('Enter string');
document.write("The length is="+a.length);
</script>
</body>
</html>
```


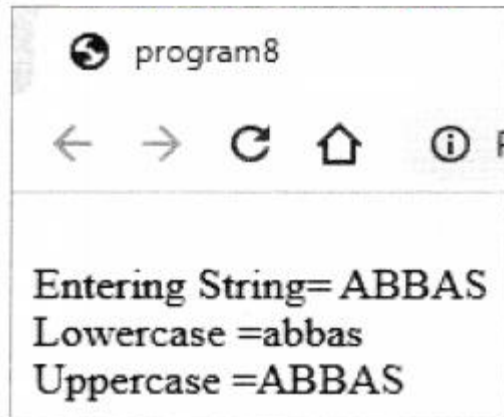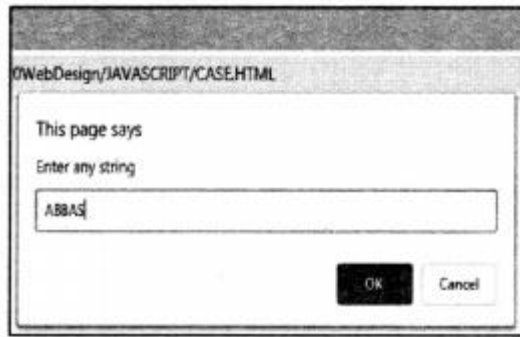To accept string and display it into lowercase and uppercase.

```
<!DOCTYPE html>
<head>
<title> To accept string and display it into lowercase and uppercase</title>
</head>
<body>
<script language="javascript">
var a;
a=prompt('Enter any string');
document.write("<br>Entering Strings "+a);
document.write("<br>Lowercase="+a.toLowerCase());
document.writeln("<br>Uppercase="+a.toUpperCase());
</script>
</body>
</html>
```
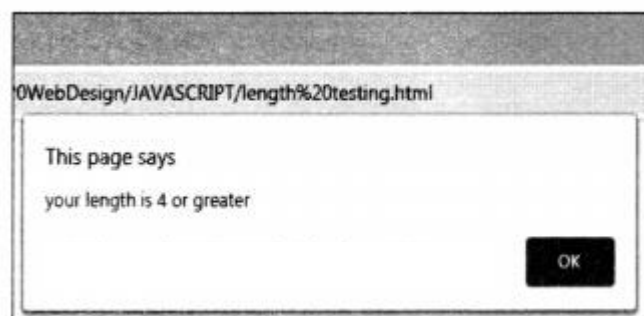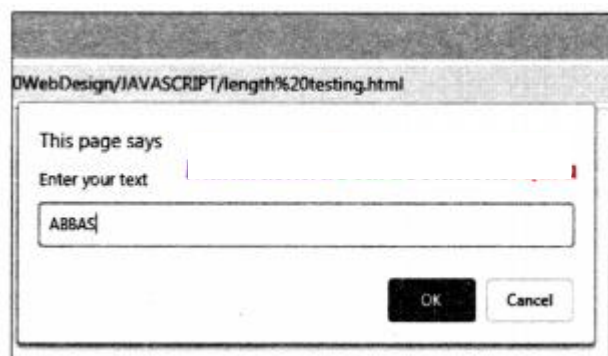
Entering String= ABBAS
Lowercase =abbas
Uppercase =ABBAS

To check whether the length of string is 4 or greater.

```
<!DOCTYPE html>
<html>
<head>
<title> JavaScript</title>
</head>
<body>
<script language=JavaScript>
var a,b;
a=prompt("Enter your text");
b=a.length;
if(b=4 || b>=4)
alert("your length is 4 or greater");
else
alert("your text length is below 4");
</script>
</body>
</html>
```


SOP 4: Create event-driven JavaScript programs for the following using appropriate variables, JavaScript inbuilt functions, and control structures.

To accept numbers and validate if the given value is a number or not by clicking on the button.

7

To calculate the addition and division of two numbers.

| 1st Number : | 12 |
| 2nd Number : | 10 |

[Addition] [Divide]

Answer:

To accept number and validate if the given value is a number or not by click

```
<!DOCTYPE html>
<html>
<head>
<title> To accept number and validate if the given value is a number or not by clicking on the button.
</title>
</head>
<script language-'JavaScript">
function display()
{
var a,b;
a=form1.t1;value;
if(a>=0)
alert("Value is a number"+" "+a);
else
alert("Value is a string"+" "+a);
}
</script>
</head>
</body>
<form name=form1>
Enter Value: <Input type=text name=t1><br><br>
<Input type=button value=Check onClick="display()">
</form>
</body>
</html>
```

Enter Value: [   ]

[Check]

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This page says

Value is a number 12345

[OK]

Enter Value: [ABCDE]

[Check]

20WebDesign/JAVASCRIPT/testing1.html

This page says

Value is a string ABCDE

[OK]

To calculate addition and division of two numbers.

```html
<!DOCTYPE html>
<head>
<title>To calculate addition and division of two numbers.</title>
<script langauge="javascript">
function add()
{
var a,b,result;
a=f1.t1.value;
b=f1.t2.value;
result=parseInt(a)+parseInt(b);
document.write("The Addition is ="+result);
}
function div()
{
var a,b,d;
a=f1.t1.value;
b=f1.t2.value;
d=parseInt(a)/parseInt(b);
document.write("The Divide is ="+d);
}
</script>
</head>
<body>
<form name="f1">
1st Number : <input type="text" name="t1"><br>
2nd Number : <input type="text" name="t2"><br>
<input type="button" value="Addition" name="b1" onClick="add()">
<input type="button" value="Division" name="b2" onClick="div()">
</form>
</body>
</html>
```