

ASSIGNMENT - 7

1. Write a javascript code to find roots of quadratic equation.

```
<?xml version = "1.0">
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1  
//EN "https: - - - - - ">
```

```
<html xmlns = " link " >
```

```
<head>
```

```
<title> roots. html </title>
```

```
</head>
```

```
<body style = " bgcolor : black color : yellow ">
```

```
<script type = "text /js ">
```

```
var a = prompt ("Enter first number");
```

```
var b = "
```

```
var c = "
```

```
var root-part = Math.sqrt(b*b-4*a*c);
```

```
var denom = 2.0*a;
```

```
var root1 = (-b + root-part)/denom;
```

```
var root2 = (-b - root-part)/denom;
```

```
</body>
```

```
</html>
```

Output :-

Enter the first number

1

OK

Cancel

Enter the second number

5

OK

Cancel

Output :-

← → @

The first root is -1

The second root is -5

2. Develop and demonstrate a XHTML file that includes javascript for

Input:- A number n obtained using prompt

Output:- Check the number is palindrom or not and find sum of digit.

```
<?xml version="1.0" ?>
```

```
<!DOCTYPE html PUBLIC " Link " "https:..."
```

```
<html xmlns=" Link ">
```

```
<head>
```

```
<title> Palindrome </title>
```

```
</head>
```

```
<body style="background-color: black">
```

```
<script type="text/javascript">
```

```
var n = Number(prompt("Enter the number"));
```

```
var x = n;
```

```
var rev = 0;
```

```
var rem = 0;
```

```
while (n > 0)
```

```
{
```

```
    rem = (n % 10);
```

```
    rev = (rev * 10) + rem;
```

```
    Sum = Sum + rem;
```

```
    n = parseInt(n / 10);
```

```
}
```

```
if (x == rev)
```

```
{  
  document.write ("The given num "+x+"")
```

```
  document.write (" The sum of given to  
    "+ x + " is "+ Sum),
```

```
}
```

```
else
```

```
{
```

```
  document.write ("The given number  
    "+ x + " is"),
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```


Output:-

file1.htm	<div>Enter the Number <input type="text" value="66"/> <input type="button" value="OK"/> <input type="button" value="Cancel"/></div>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
-----------	---	--------------------------	-------------------------------------

The given number 66 is a palindrone
The Sum of given number is 12.

3. Write a Java Script program to change the border of the table based on user Input.

```
<?xml version="1.0"?>
<!DOCTYPE html PUBLIC="" "lunk">
<head>
  <title>Border </title>
</head>
<body>
  <script type="text/javascript">
    var bordersize = prompt("Select a table");
    "0 (no border)\n" +
    "1 (1 pixel border)\n" +
    ...
  </script>

```

Switch (bordersize)

2

Case D % document.write("<table>");
break;

Case 1 : document.write("<table>"),
break ^

case 4, break;

1.

```
default : document.write("Error Invalid")  
}
```

```
document.write("<caption> 2006 NFL ^");
```

```
document.write("<tr>",
```

```
<th> ,
```

```
<th> American Conference
```

```
</tr>
```

```
≡
```

```
<th>chicago bears</th>
```

```
<tr>
```

```
<th>west </th>" ,
```

```
<th>San Diego </th>;
```

```
≡
```

```
</tr>
```

```
</table>);
```

```
</script>
```

```
</body>
```

```
</html>.
```

- [] X

file.htm

Select a table

0 1 4 8

4

[OK] [Cancel]

2006 NFL Divisional

National Confer.	
American Confer.	
East	1 1 1 1
West	
North	

5. Create object for student which includes name of student, regnum, age, marks, atleast 2 hobbies. Display all details of student and calculate total marks, average and result.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title> Student </title>
  </head>
  <h3 id="name"></h3>
  <h3 id="regno"></h3>
  ...
  <script>
    const student =
      {
        name = "Ram";
        regno = 20111111;
        age : 30;
        marks : {
          Sub1 : 80
          Sub2 : 70
          Sub3 : 60
```

hobbies : {

one : "Coin collecting";

two : "Stamp Collection";

}

};

document.getElementById("name").innerHTML;

document.getElementById("regno").innerHTML;

document.getElementById("age").innerHTML = avg;

document.getElementById("hobbies").innerHTML =

avg = tot/5;

document.getElementById("total").innerHTML =

document.getElementById("average").innerHTML =

"Average : " + avg;

var result = " ";

if (avg > 75)

{

result = "Distinction : "));

}

else if (avg > 35)

{

result = "pass");

}

else

{

result = "Fail : "));

}

</script>

</body>

</html>

file1.htm

Name : Ram

Regno : 201111

Age : 30

Hobbies: Coin, stamp collection

Marks in 5 subjects

80
70
60
50
42

Total : 302

Average : 60.4

Result : Pass :)

6. Javascript to Search an element in an array of size N also find Second largest number in an array.

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta http: " " >
```

```
<meta name:"viewport">
```

```
<title> Document </title>
```

```
</head>
```

```
<body>
```

```
<label for=" " > Enter array by comma </label>
```

```
<br>
```

```
<input type="text" name="arr" id="arrst">
```

```
<br>
```

```
|||
```

```
<Script>
```

```
function SecondMax(arr)
```

```
{
```

```
var max = Math.max.apply(null, arr);
```

```
arr.splice(arr.indexOf(max), 1);
```

```
}
```


function compute ()

{

Var arrstr = document.getElementById
(arrstr)

Var KeyElement = document.getElementById Value;

if (arrstr == "" || KeyElement == "")

{

alert ("Enter Both the field");

return;

}

Var arr = arrstr.split (',');

Var index = arr.indexOf (KeyElement);

Var Secondmax = SecondMax (arr);

Var sh = document.getElementById

sh.innerHTML = "Second max is"

Var sr = document.getElementById ("Search").

if (index != -1)

sr.innerHTML = KeyElement + "is found
index" + index;

else

sr.innerHTML = KeyElement + "is not found"

}

</script>

</body>

</html>

Output :-

file5.htm

Enter array separated by comma

6, 7, 4, 97, 80

Enter element to be searched

4

Search

Second max is 97
4 is found at index 2.