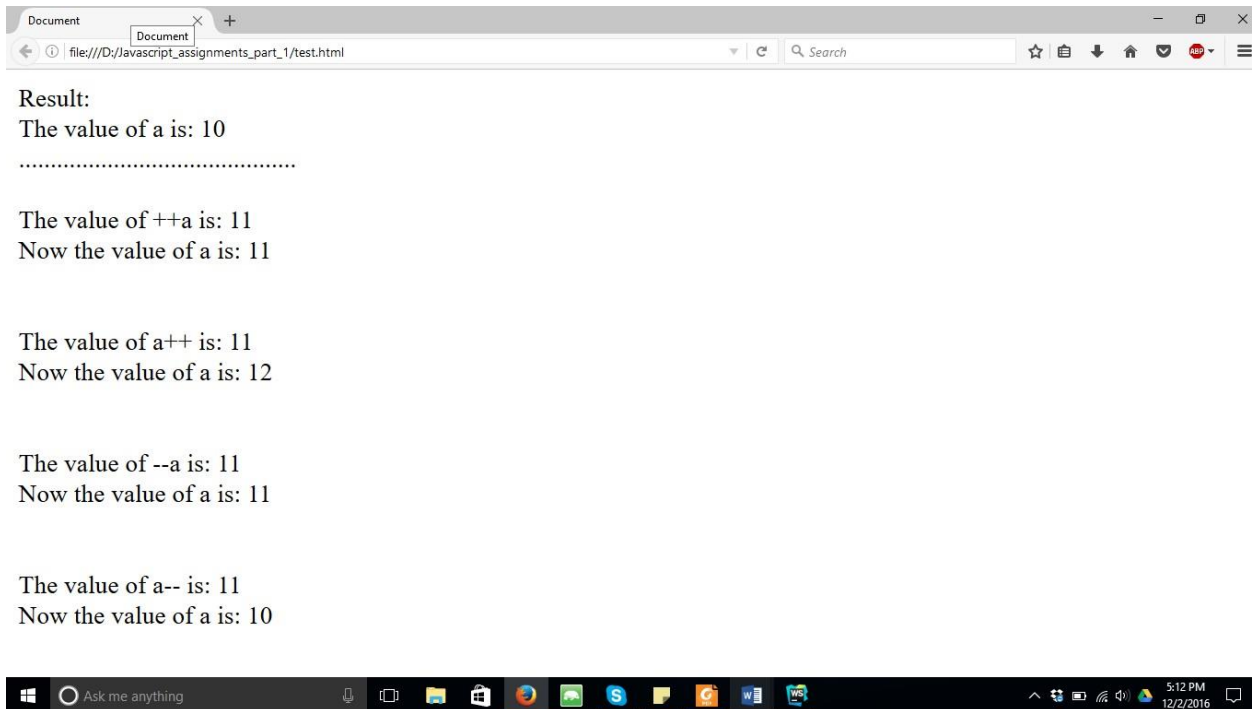


MATH EXPRESSIONS

Assignment # 6
JAVASCRIPT

1. Write a program to take a number in a variable, do the required arithmetic to display the following result in your browser:

```
//ASSIGNMENT
var a=+prompt("Enter a number:")
document.write("Result:<br>")
document.write("The value of a is :",a,"<br>")
document.write(".....<br><br>")
document.write("The value of ++a is :",++a,"<br>")
document.write("Now The value of a is :",a,"<br><br><br>")
document.write("The value of a++ is :",a++, "<br>")
document.write("Now The value of a is :",a,"<br><br><br>")
document.write("The value of --a is :",--a,"<br>")
document.write("Now The value of a is :",a,"<br><br><br>")
document.write("The value of a-- is :",a--, "<br>")
document.write("Now The value of a is :",a,"<br><br><br>")
```



2. What will be the output in variables *a*, *b* & *result* after execution of the following script:

```
var a = 2, b = 1;
```

```
var result = --a - --b + ++b + b--;
```

Explain the output at each stage:

```
--a;
```

```
--a - --b;
```

```
--a - --b + ++b;
```

```
--a - --b + ++b + b--;
```

```
//ASSIGNMENT
var a = 2, b = 1;
var result = --a - --b + ++b + b--;
document.write("--a the value of a will be now: 1 <br>")
document.write("--a - --b it means a=1 and b=0 so 1-0=1<br>")
document.write("--a - --b + ++b it means as --a - --b=1 and ++b=1 so 1+1=2<br>")
document.write("--a - --b + ++b + b-- it means --a - --b + ++b =2 and b-- means here b=1 but after this line execution b will be =0 so \"2+1=3\" <br>")
document.write("So final values are a=",a,"and b= ",b,"and result=",result)
```

3. Write a program that takes input a name from user & greet the user.

```
//ASSIGNMENT
var pname=prompt("Enter your name:")
alert("Welcmome "+pname)
```

4. Write a program to take input a number from user & display it's multiplication table on your browser. If user does not enter a new number, multiplication table of 5 should be displayed by default.

```
//ASSIGNMENT
var num=+prompt("Enter the number whose table you want to print:")
console.log(num);
if (num!=0) {
    for (let index = 1; index <= 10; index++) {
        document.write(num," * ",index," = ",num*index," <br> ")
    }
}
else{
    for (let index = 1; index <= 10; index++) {
        document.write("5 * ",index," = ",5*index," <br> ")
    }
}
```

5. Take

- a) Take three subjects name from user and store them in 3 different variables.
- b) Total marks for each subject is 100, store it in another variable.
- c) Take obtained marks for first subject from user and stored it in different variable
- d) Take obtained marks for remaining 2 subjects from user and store them in variables.
- e) Now calculate total marks and percentage and show the result in browser like this.(Hint: user table)

```

//ASSIGNMENT
var sub1=prompt("Enter subject one Name:").toUpperCase()
var sub2=prompt("Enter subject two Name:").toUpperCase()
var sub3=prompt("Enter subject three Name:").toUpperCase()
var tMarks=100
var markSub1+=prompt("Enter marks obtained in subject one:")
var markSub2+=prompt("Enter marks obtained in subject two:")
var markSub3+=prompt("Enter marks obtained in subject three:")
var percentSub1=(markSub1/tMarks)*100;
var percentSub2=(markSub2/tMarks)*100;
var percentSub3=(markSub3/tMarks)*100;
var totalObtainedmarks=markSub1+markSub2+markSub3;
var totalPercent=(totalObtainedmarks/300)*100;
let sub1text=document.getElementById("sub1name")
sub1text.innerHTML=sub1;
let sub2text=document.getElementById("sub2name")
sub2text.innerHTML=sub2;
let sub3text=document.getElementById("sub3name")
sub3text.innerHTML=sub3;
let sub1obttxt=document.getElementById("sub1obtmrks")
sub1obttxt.innerHTML=markSub1
let sub2obttxt=document.getElementById("sub2obtmrks")
sub2obttxt.innerHTML=markSub2
let sub3obttxt=document.getElementById("sub3obtmrks")
sub3obttxt.innerHTML=markSub3
let sub1obtpercent=document.getElementById("sub1percent")
sub1obtpercent.innerHTML=percentSub1;
let sub2obtpercent=document.getElementById("sub2percent")
sub2obtpercent.innerHTML=percentSub2;
let sub3obtpercent=document.getElementById("sub3percent")
sub3obtpercent.innerHTML=percentSub3;
let totalobttxt=document.getElementById("totalobtmrks")
totalobttxt.innerHTML=totalObtainedmarks;
let totalpercenttxt=document.getElementById("totalpercent")
totalpercenttxt.innerHTML=totalPercent;

```

```
</div> -->
<center>
  <table>
    <tr>
      <th>Subject</th>
      <th>Total Marks</th>
      <th>Obtained Marks</th>
      <th>Percentage</th>
    </tr>
    <tr>
      <td id="sub1name"></td>
      <td>100</td>
      <td id="sub1obtmrks"></td>
      <td id="sub1percent"></td>
    </tr>
    <tr>
      <td id="sub2name"></td>
      <td>100</td>
      <td id="sub2obtmrks"></td>
      <td id="sub2percent"></td>
    </tr>
    <tr>
      <td id="sub3name"></td>
      <td>100</td>
      <td id="sub3obtmrks"></td>
      <td id="sub3percent"></td>
    </tr>
    <tr>
      <th>Total</th>
      <td>300</td>
      <td id="totalobtmrks"></td>
      <td id="totalpercent"></td>
    </tr>
  </table>
</center>
```

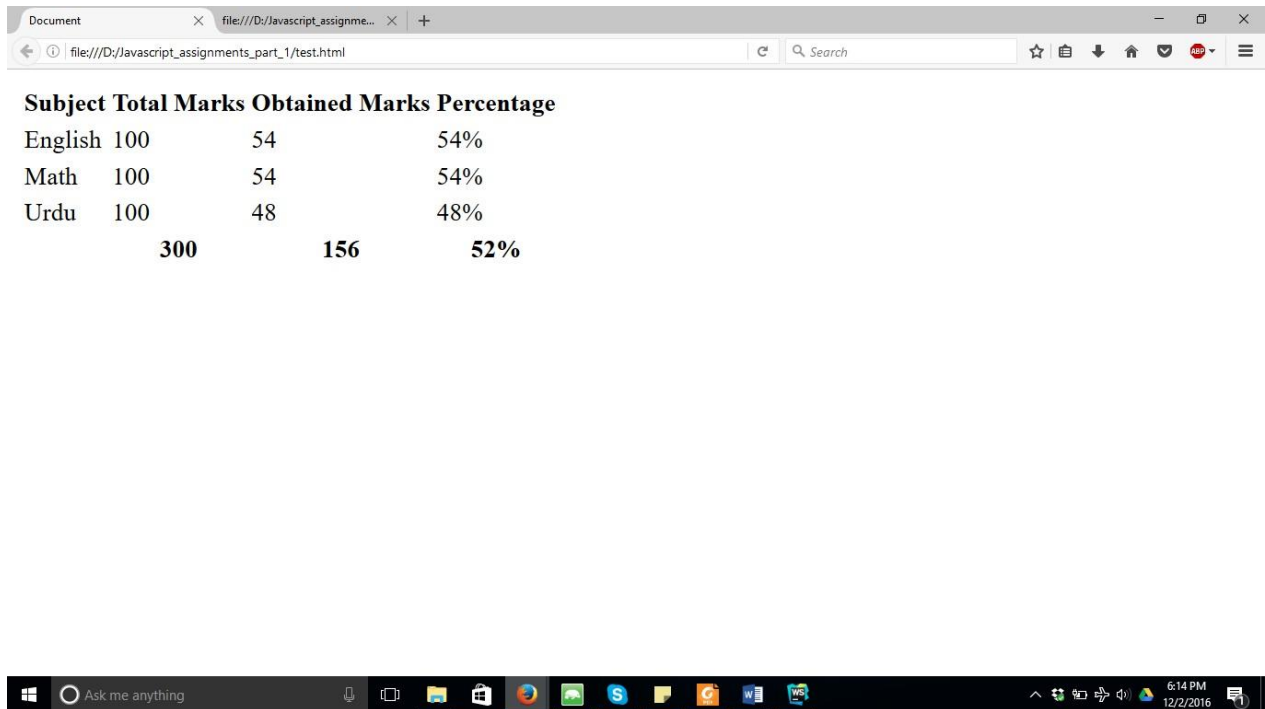
```

table, th, td {
  border: 1px solid black;
}
table {
  border-spacing: 20px;
}
th,td{
  padding: 20px;
  text-align: center;
}

```

agonal Difference...

Subject	Total Marks	Obtained Marks	Percentage
MATHS	100	80	80
SCIENCE	100	90	90
ENGLISH	100	45	45
Total	300	215	71.66666666666667



The screenshot shows a web browser window with a single tab titled 'Document'. The address bar shows the file path 'file:///D:/Javascript_assignments_part_1/test.html'. The browser's toolbar includes a search bar, star icon, download icon, home icon, and a red 'X' icon. The main content area displays a table with the following data:

Subject	Total Marks	Obtained Marks	Percentage
English	100	54	54%
Math	100	54	54%
Urdu	100	48	48%
	300	156	52%

The Windows taskbar is visible at the bottom, showing the Start button, search bar, and several application icons. The system clock indicates 6:14 PM on 12/2/2016.

