OSTL LAB
Week 8 Assignment Submission

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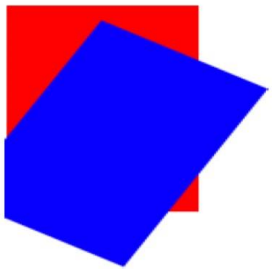
200905044
Batch B1
10

1. Write the HTML5 program to display the following using canvas tag. Give different colour for the rectangles.



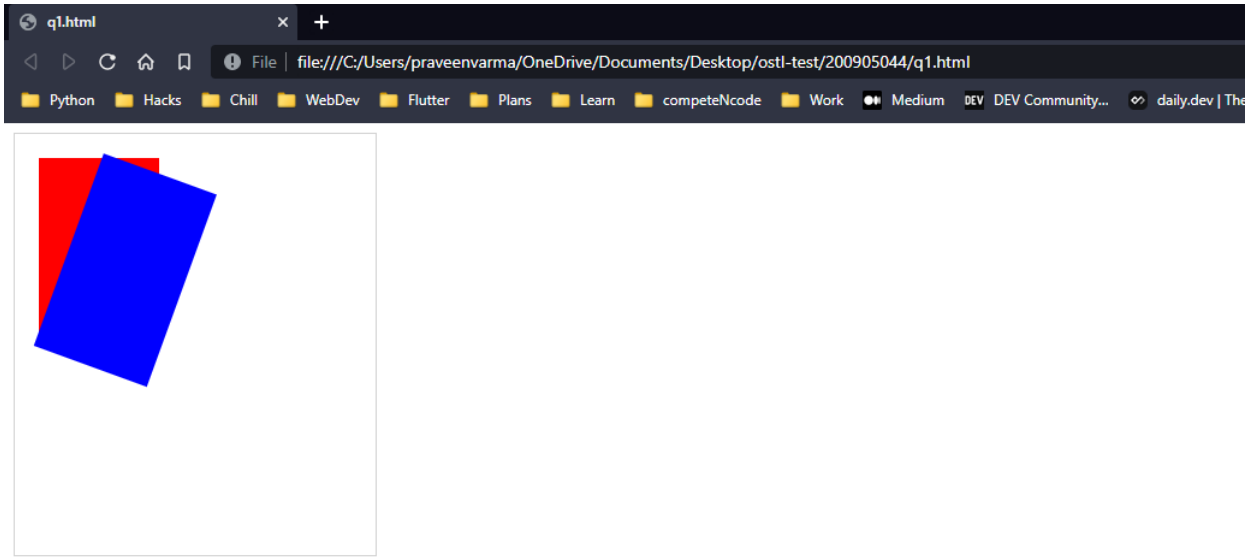
Solution:-

```
<!DOCTYPE html>
<html>
<body>

<canvas id="myCanvas" width="300" height="350" style="border:1px solid #d3d3d3;">
Your browser does not support the HTML5 canvas tag.</canvas>

<script>
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
ctx.fillStyle = "#FF0000";
ctx.fillRect(20, 20, 100, 150);
ctx.fillStyle = "#0000FF";
ctx.rotate(20 * Math.PI / 180);
ctx.fillRect(75, -10, 100, 170);
</script>

</body>
</html>
```


q1.html
File | file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q1.html
Python
Hacks
Chill
WebDev
Flutter
Plans
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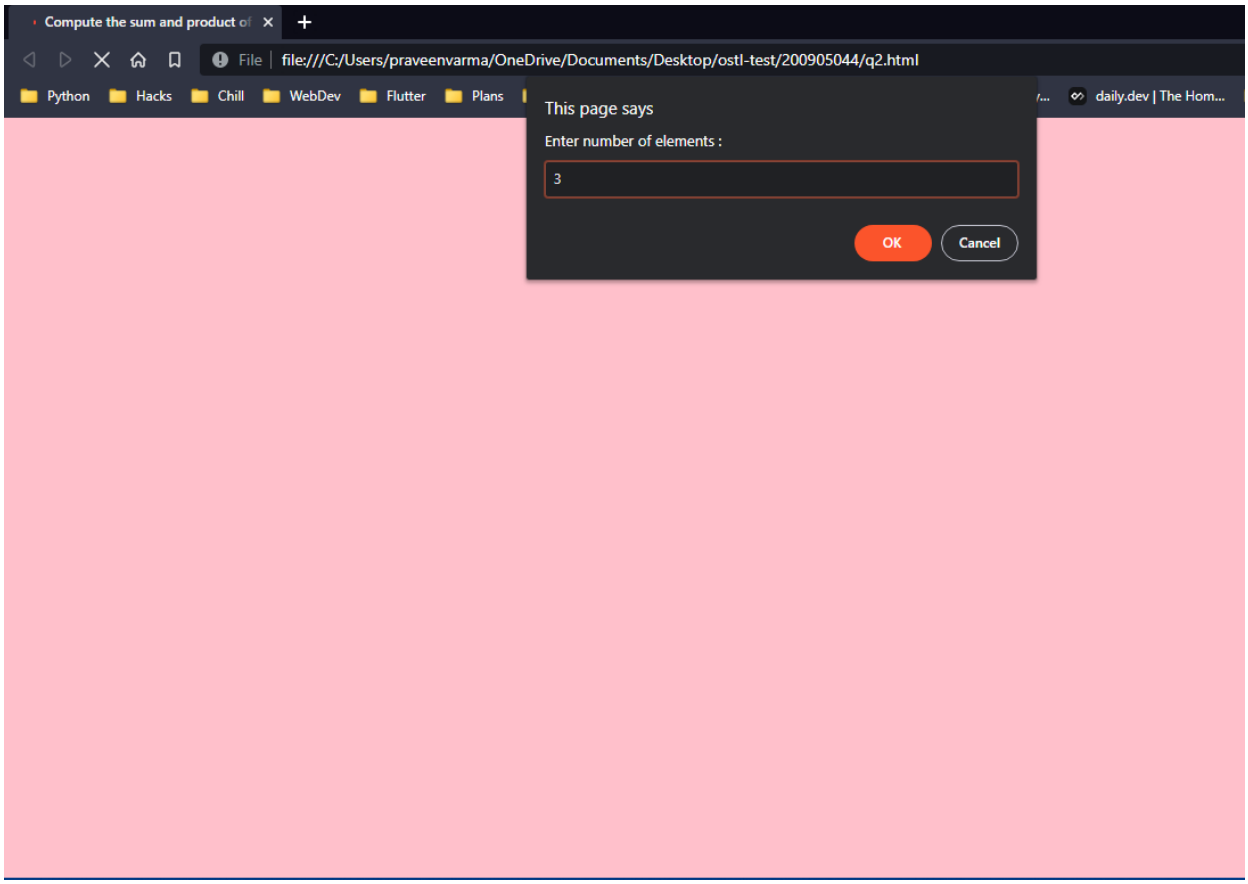
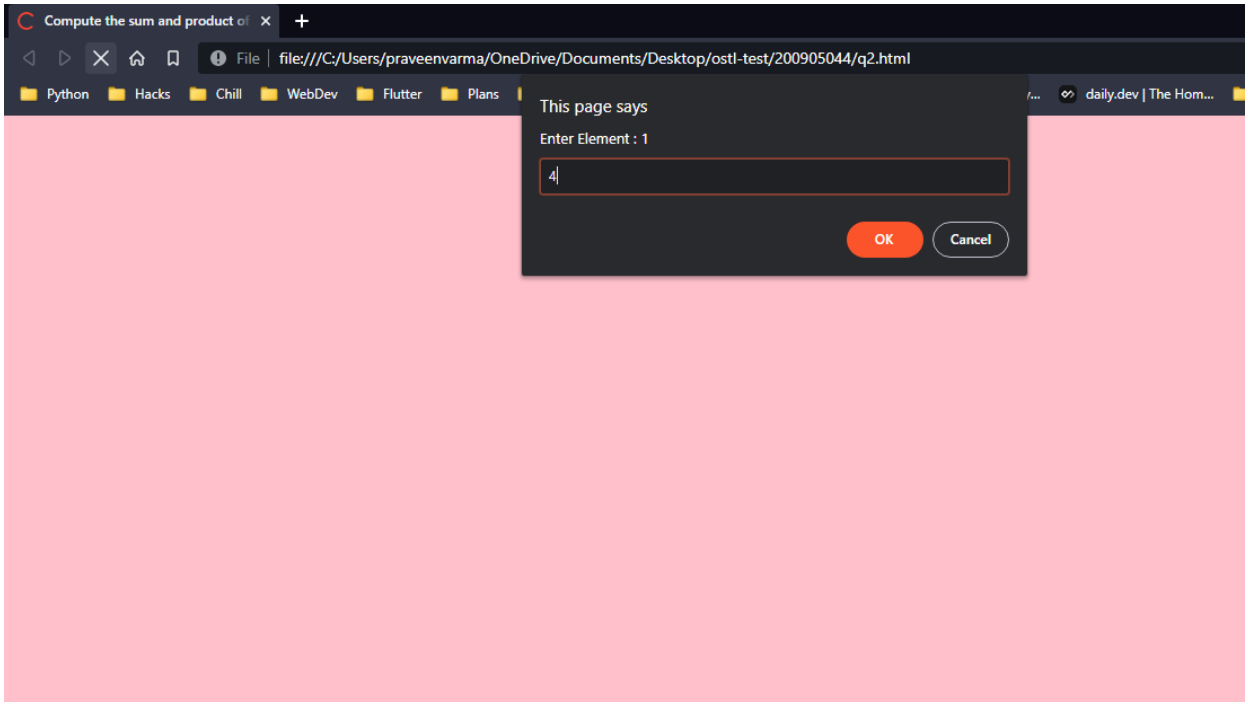
competeNcode
Work
Medium
DEV Community...
daily.dev | The

2. Write a JavaScript program to compute the sum and product of an array of integers. Take the array elements from user. (Use alert command)

Solution:-

```
<!DOCTYPE html>
<html>
<head>
<title>Compute the sum and product of an array of integers</title>
</head>
<body style = "background-color: pink">
<script>
var inputArray = [];
var sum =0;
var mul=1;
var size = prompt('Enter number of elements : '); //Maximum Array size
for(var i=0; i<size; i++)
{
        inputArray[i] = prompt('Enter Element : '+ (i+1));
        sum = sum + parseInt(inputArray[i]);
        mul = mul*inputArray[i];
}
alert("Sum is = "+(sum));
alert("Product is =  "+mul);
</script>
</body>
</html>
```




Compute the sum and product of
File | file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q2.html
Python
Hacks
Chill
WebDev
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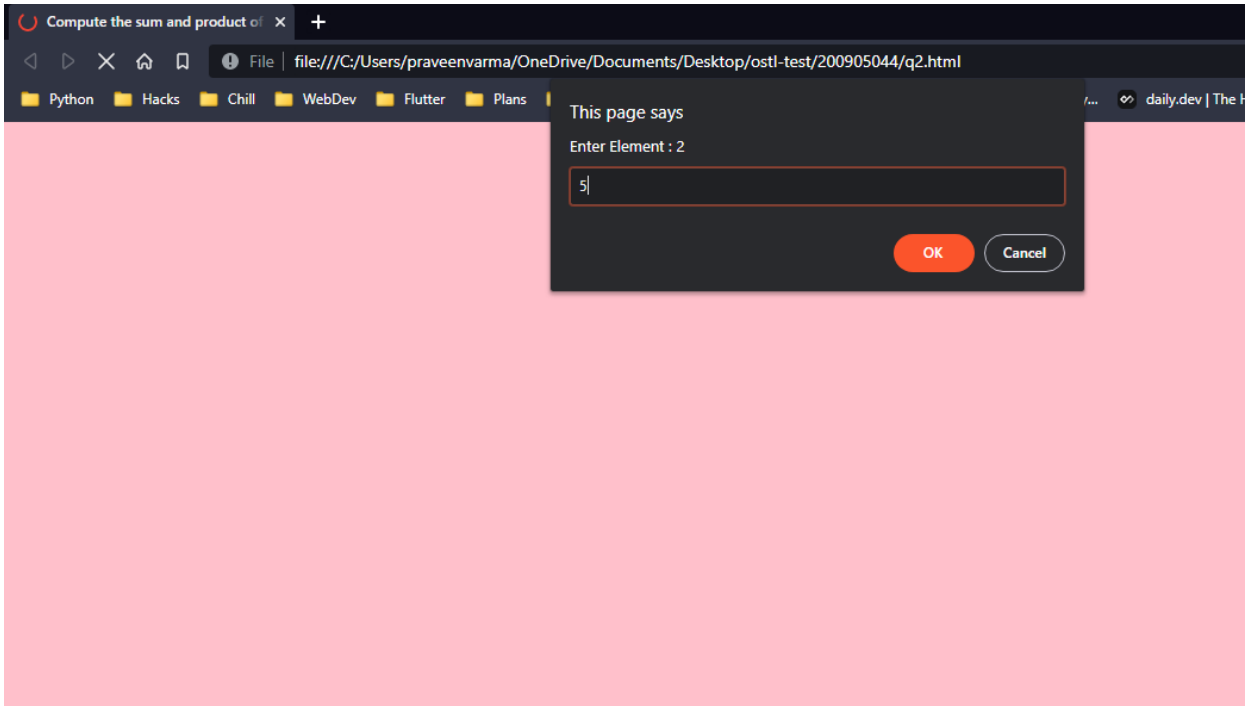
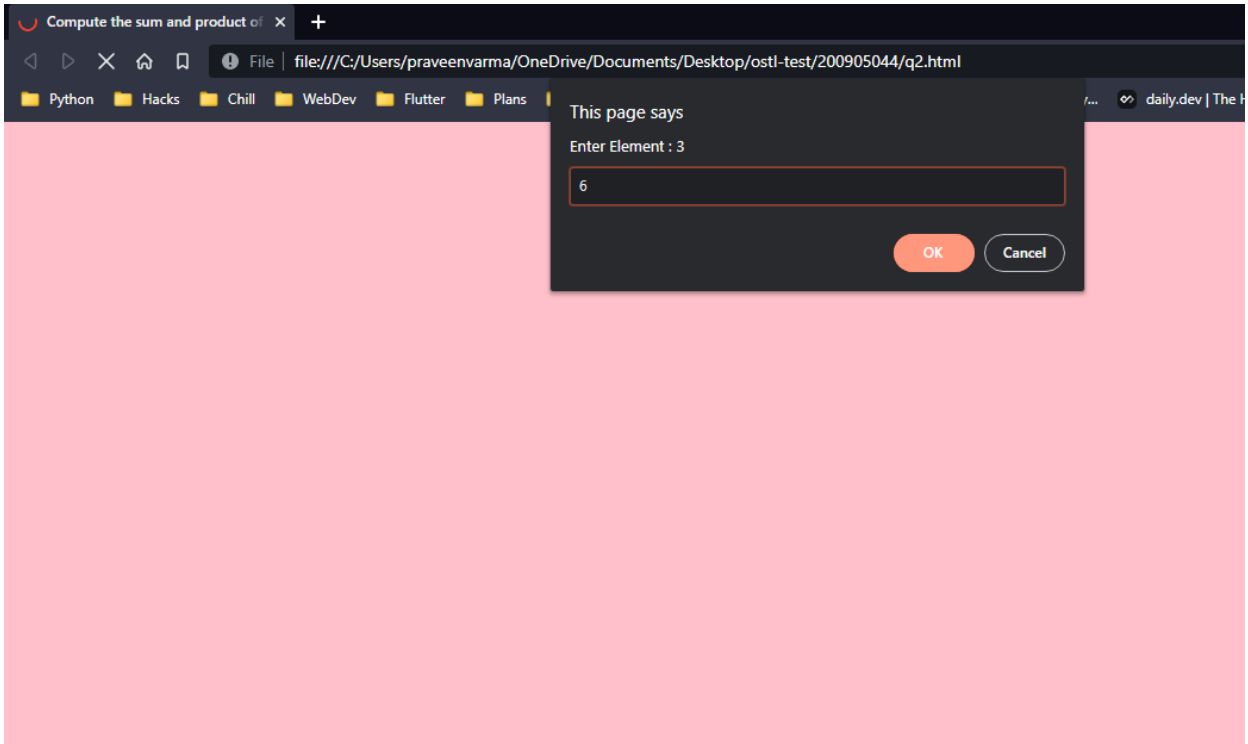
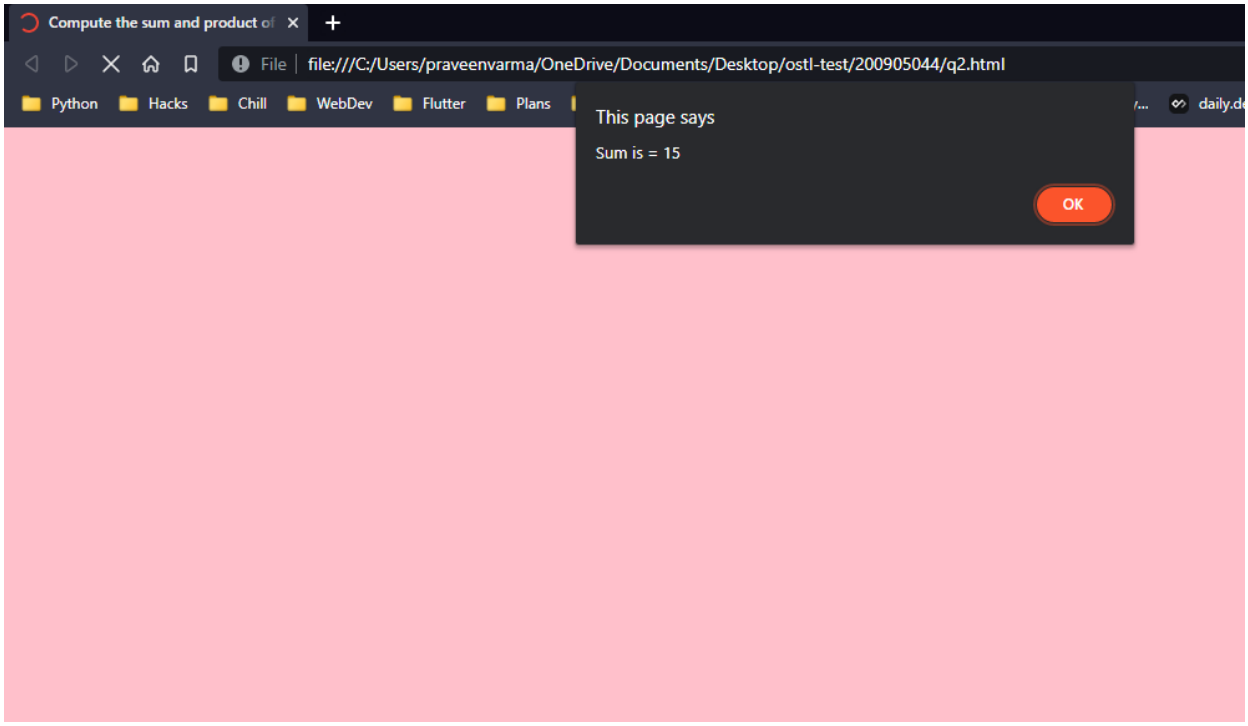
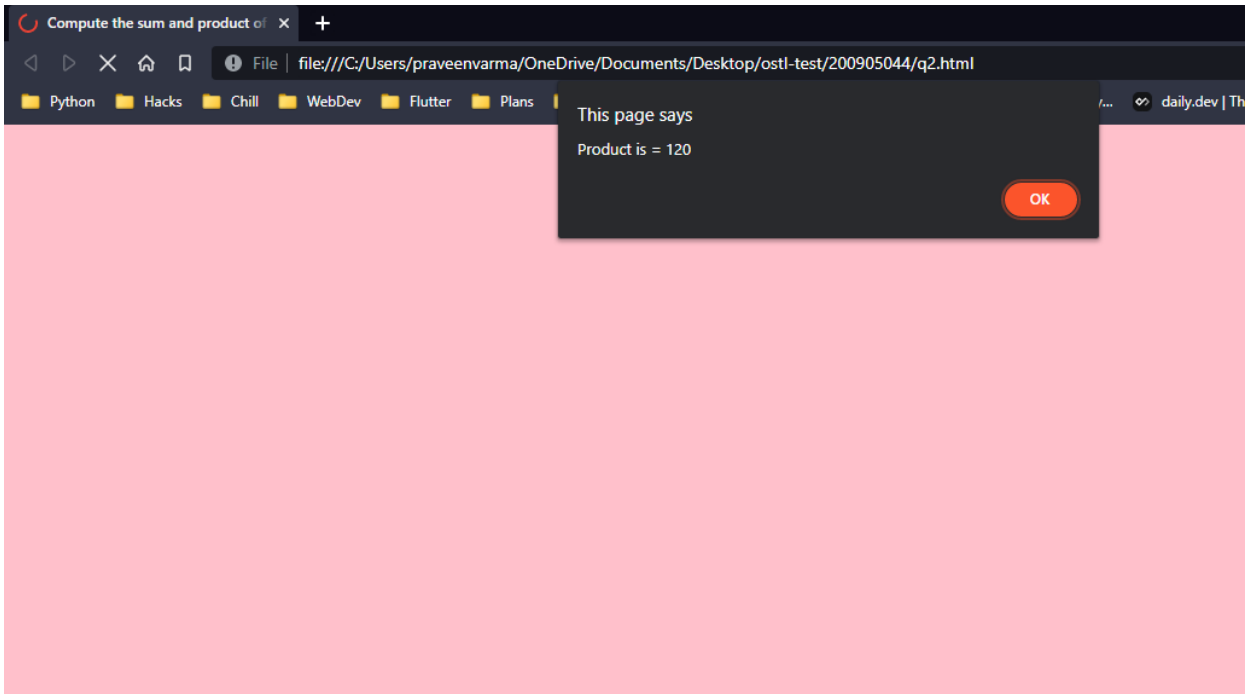
Plans
daily.dev | The Hom...
This page says
Enter Element : 1
4
OK
Cancel





Final Results:-


Compute the sum and product of
file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q2.html
Python
Hacks
Chill
WebDev
Flutter
Plans
This page says
Sum is = 15
OK


Compute the sum and product of
file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q2.html
Python
Hacks
Chill
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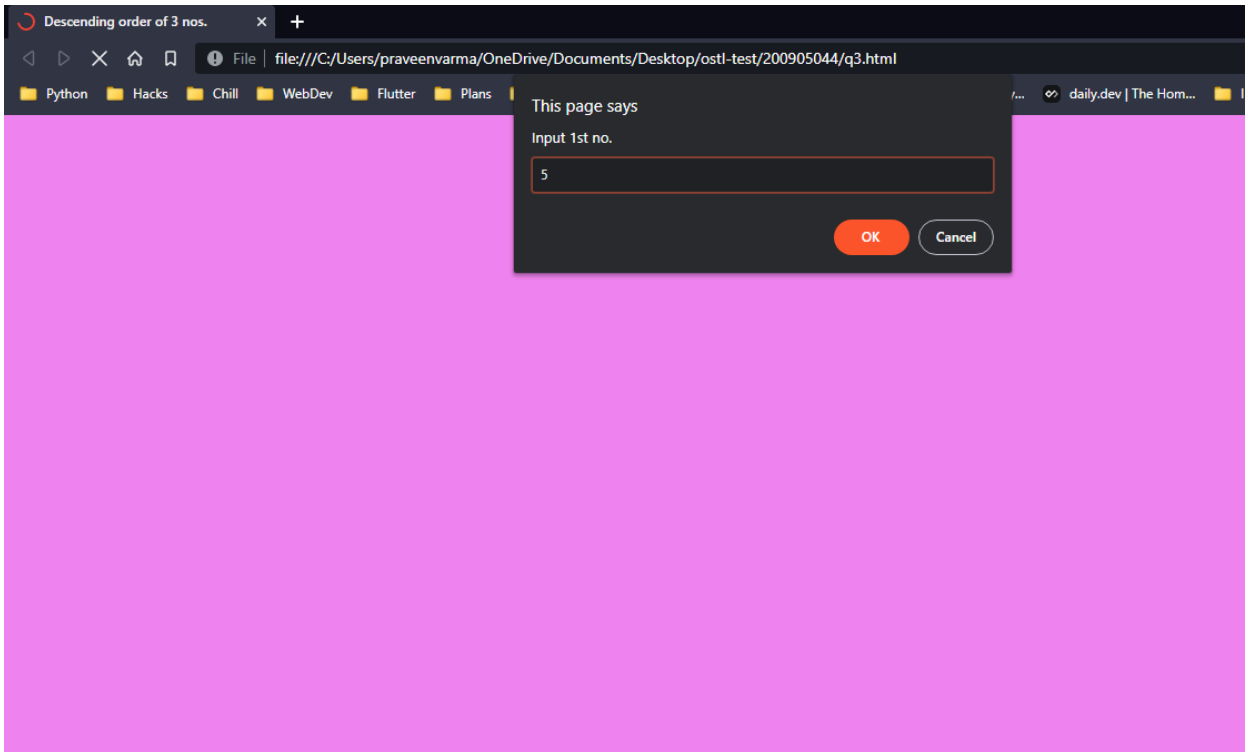
Plans
This page says
Product is = 120
OK

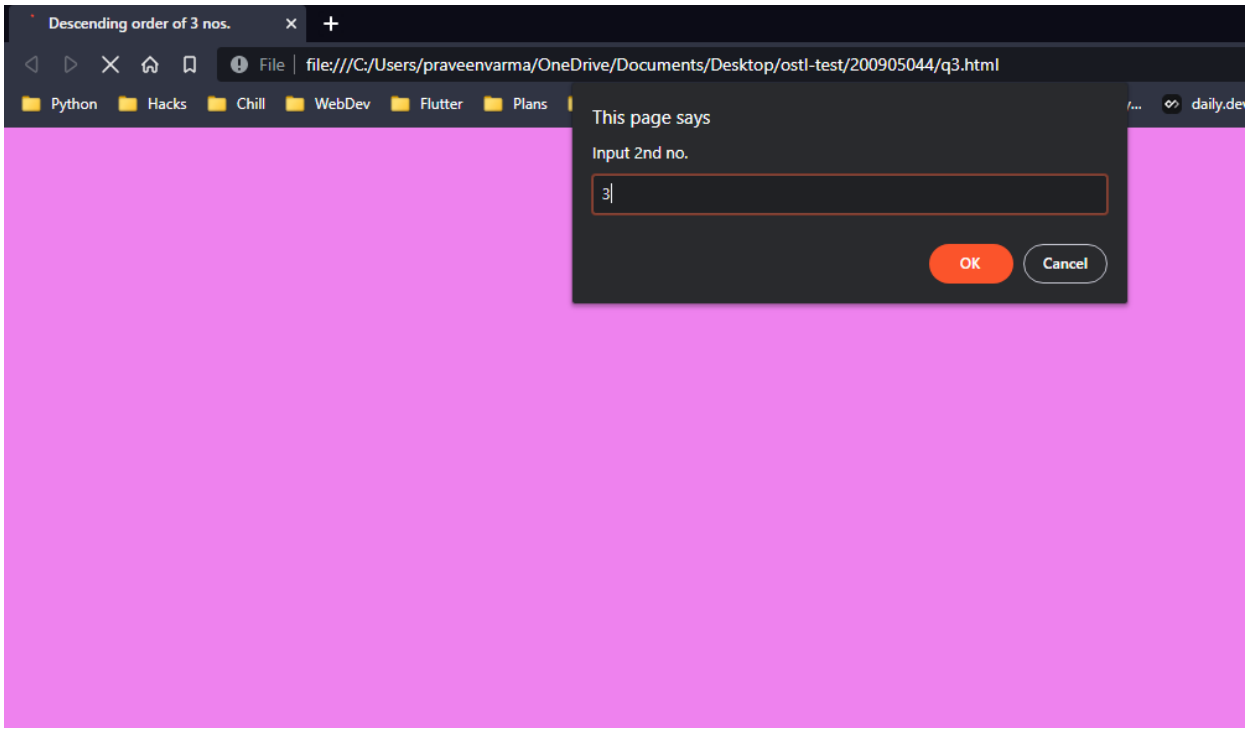
3. Write a JavaScript conditional statement to sort any three numbers. Display an alert box to show the result.

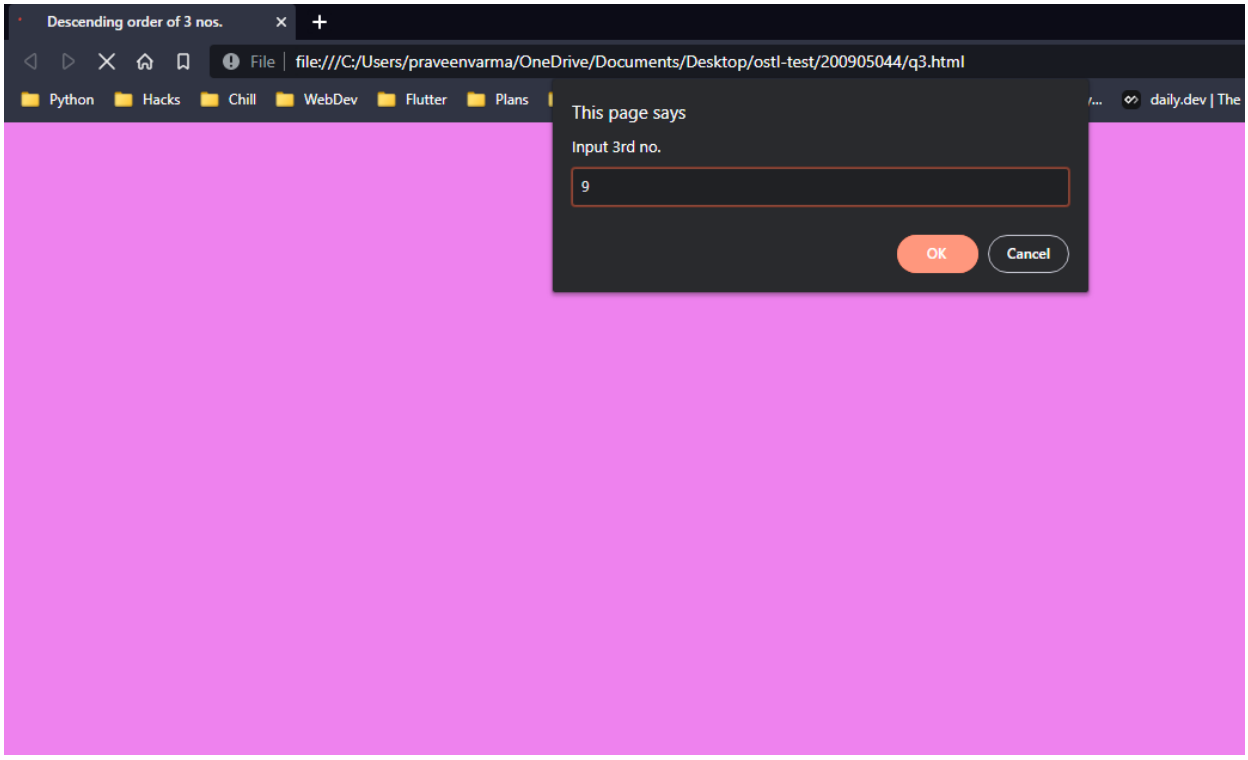
Solution:-

```
<!DOCTYPE html>
<html>
<head>
<title>Descending order of 3 nos.</title>
</head>
<body style="background-color: violet">
<script>
   var x =prompt('Input 1st no.');
   var y =prompt('Input 2nd no.');
   var z =prompt('Input 3rd no.');
   if (x>y && x>z)
   {
         if (y>z)
         {
            alert("Descending order: "+ x + ", " + y + ", " +z);
         }
         else
         {
            alert("Descending order: "+ x + ", " + z + ", " +y);
         }
   }
   else if (y>x && y >z)
   {
         if (x>z)
         {
             alert("Descending order: "+ y + ", " + x + ", " +z);
         }
         else
         {
             alert("Descending order: "+ y + ", " + z + ", " +x);
         }
   }
   else if (z>x && z>y)
   {
         if (x>y)
         {
            alert("Descending order: "+ z + ", " + x + ", " +y);
         }
         else
         {
            alert("Descending order: "+ z + ", " + y + ", " +x);
         }
```

```
    }
</script>
</body>
</html>
```






Descending order of 3 nos.
File | file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q3.html
Python
Hacks
Chill
WebDev
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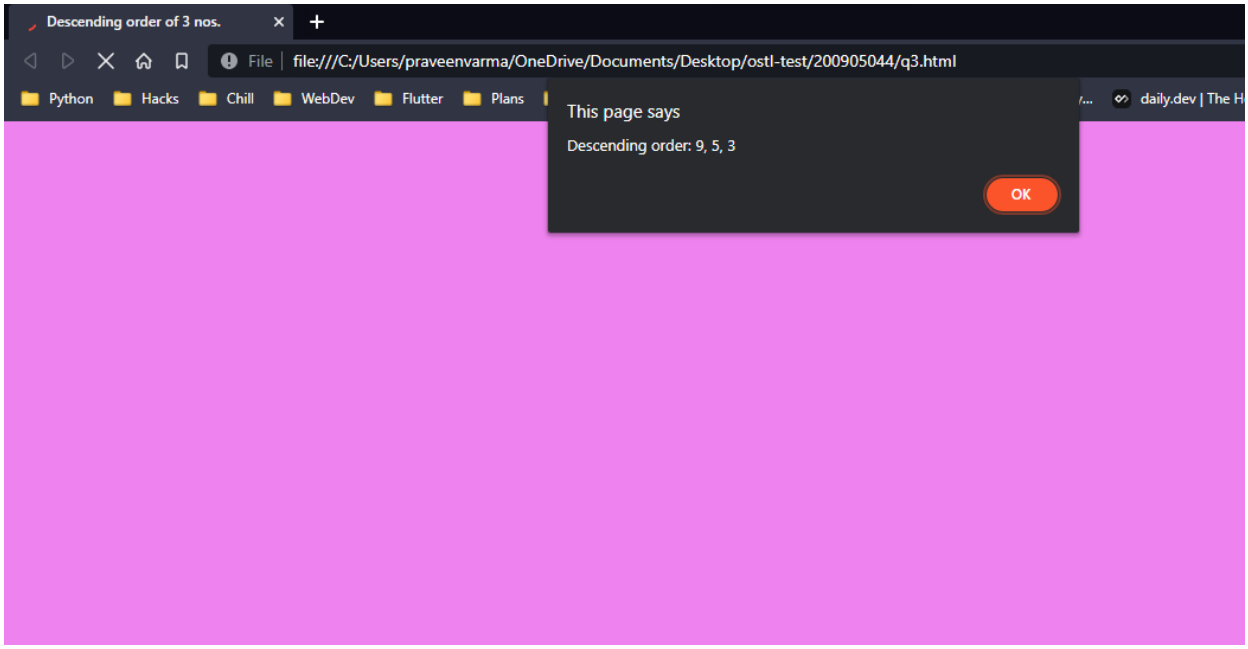
Plans
daily.dev | The
This page says
Input 3rd no.
9
OK
Cancel


Descending order of 3 nos.
file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q3.html
Python
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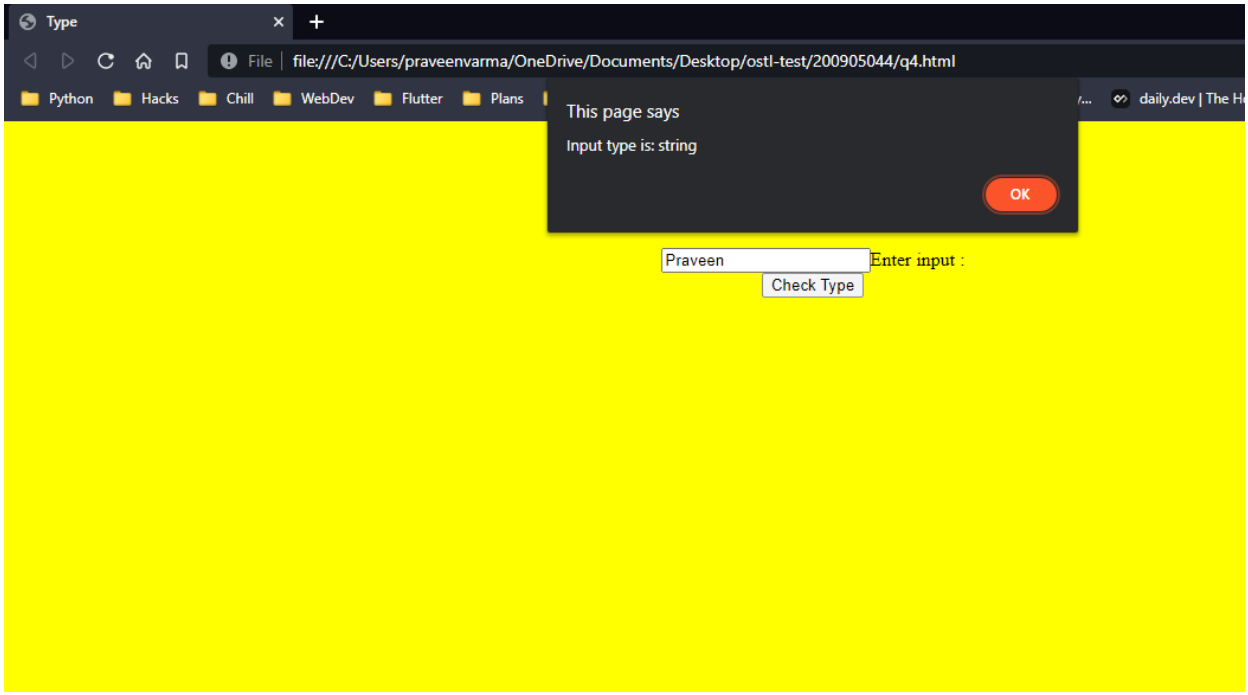
This page says
Descending order: 9, 5, 3
OK

4. Write a java script program to take some input from the user [string, integer and Boolean]. Based on the input, display the type of the input in the 'text box'.

Solution:-

```
<!DOCTYPE html>
<html>
<head>
<meta charset=utf-8 />
<title>Type</title>
</head>
<body style="text-align: center;background-color: yellow;">
<h2>Input Type!</h2>
<h4>Check the type of your input(string/integer/boolean):</h4>
<input id="text1">Enter input : </input>
<br>
<input type="button" id="button1" value="Check Type" onclick="add_element();"></input>
<script>
        var a,b,c;
        function add_element()
        {
                a=document.getElementById("text1").value;
                c=parseInt(a);
                if(a==="true"||a==="false"||a==="True"||a==="False")
                   b="boolean";
                else if(Number.isInteger(c))
                   b="integer";
                else
                   b="string";
                alert("Input type is: "+ b);
                document.getElementById("text1").value = "";
        }
</script>
</body>
</html>
```


Type
File | file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q4.html
Python
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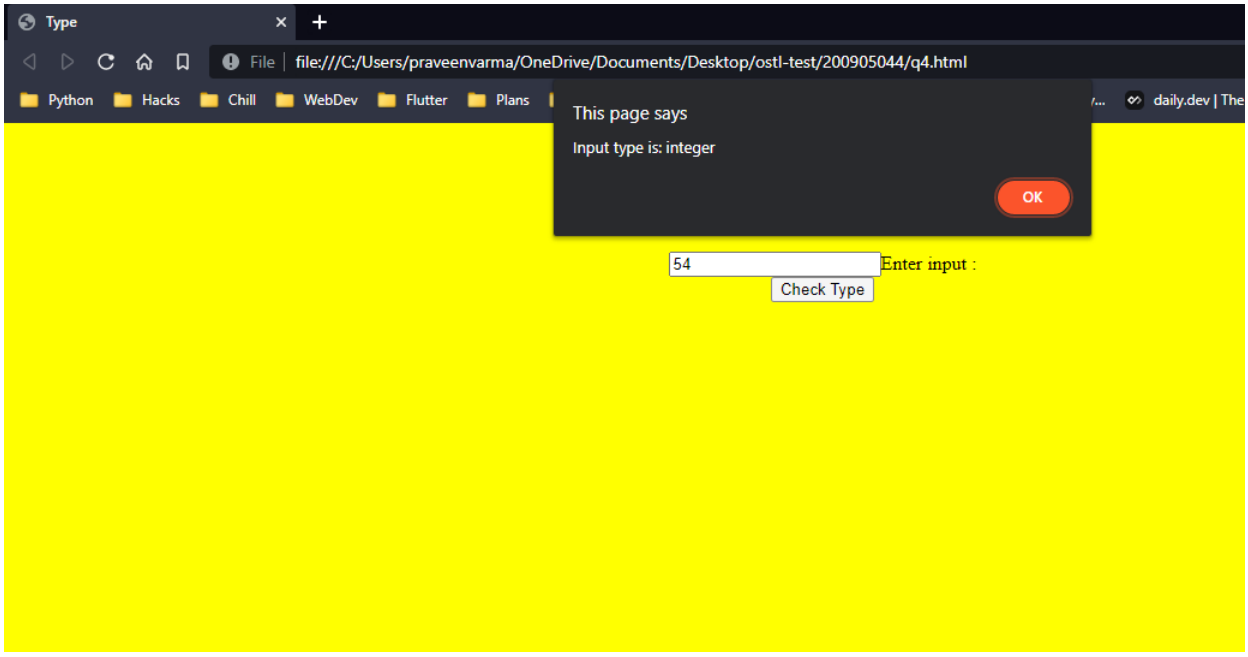
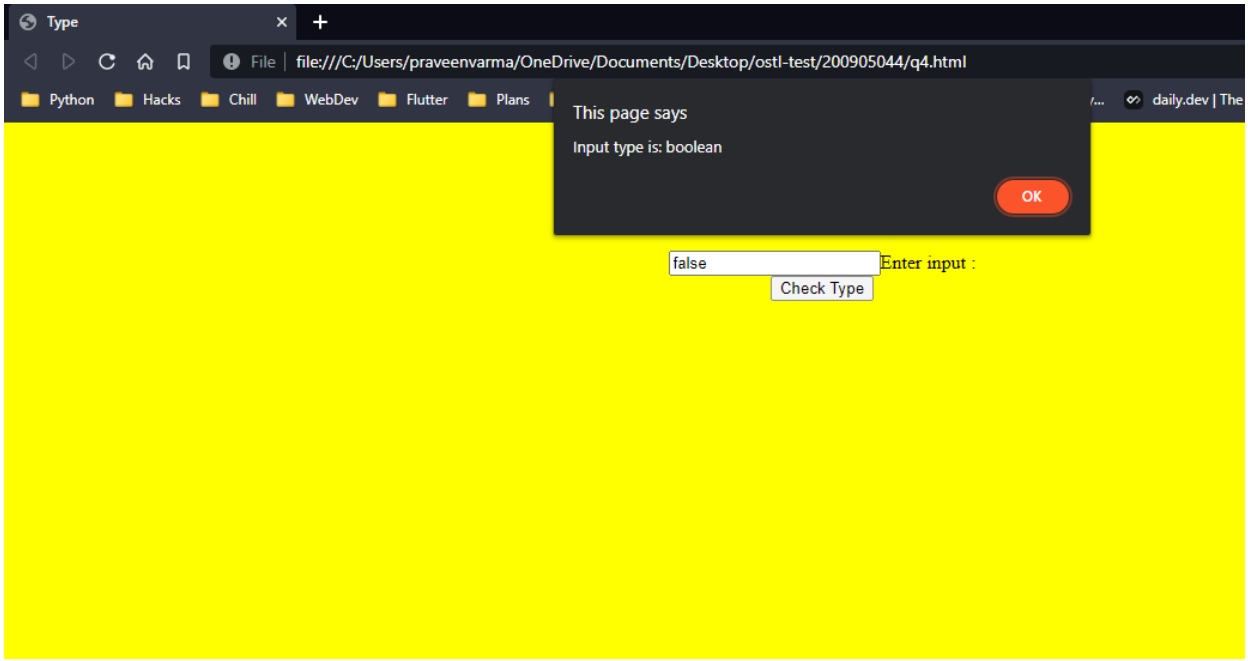
Chill
WebDev
Flutter
Plans
daily.dev | The H
This page says
Input type is: string
OK
Praveen
Enter input :
Check Type


Type
File | file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q4.html
Python
Hacks
Chill
WebDev
Flutter
Plans
daily.dev | The
This page says
Input type is: integer
OK
54
Enter input :
Check Type


Type
File | file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q4.html
Python
Hacks
Chill
WebDev
Flutter
Plans
daily.dev | The
This page says
Input type is: boolean
OK
false
Enter input :
Check Type

5. Write the HTML5 program to draw a "smiling face" picture using the canvas tag.

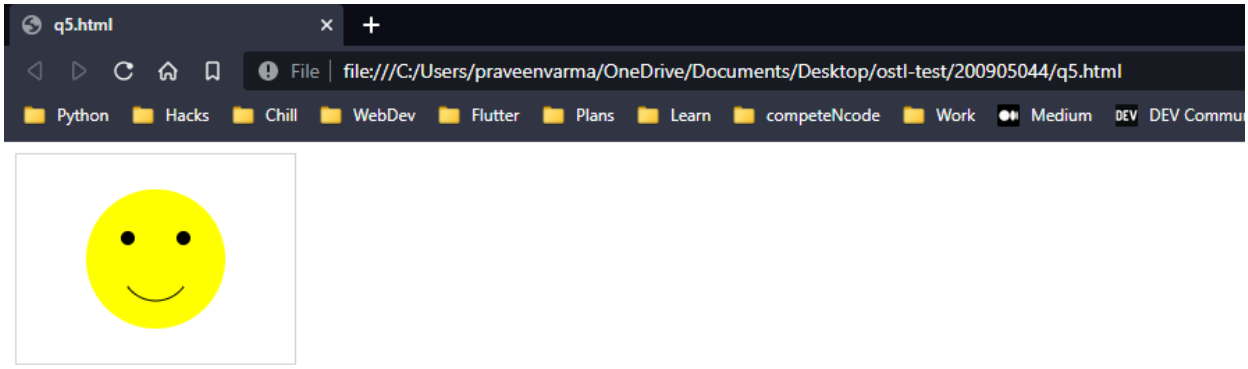
Solution:-

```
<!DOCTYPE html>
<html>
<body>

<canvas id="myCanvas" width="200" height="150" style="border:1px solid #d3d3d3;">
Your browser does not support the HTML5 canvas tag.</canvas>

<script>
	var c = document.getElementById("myCanvas");
	var ctx = c.getContext("2d");
	ctx.beginPath();
	ctx.fillStyle = "yellow";
	ctx.arc(100, 75, 50, 0, 2 * Math.PI);
	ctx.fill();
	ctx.beginPath();
	ctx.fillStyle = "black";
	ctx.arc(80, 60, 5, 0, 2 * Math.PI);
	ctx.fill();
	ctx.beginPath();
	ctx.fillStyle = "black";
	ctx.arc(120, 60, 5, 0, 2 * Math.PI);
	ctx.fill();
	ctx.beginPath();
	ctx.arc(100, 80, 25, Math.PI/5, 4 * Math.PI/5);
	ctx.stroke();
</script>

</body>
</html>
```


q5.html
File
file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q5.html
Python
Hacks
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Learn
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Medium
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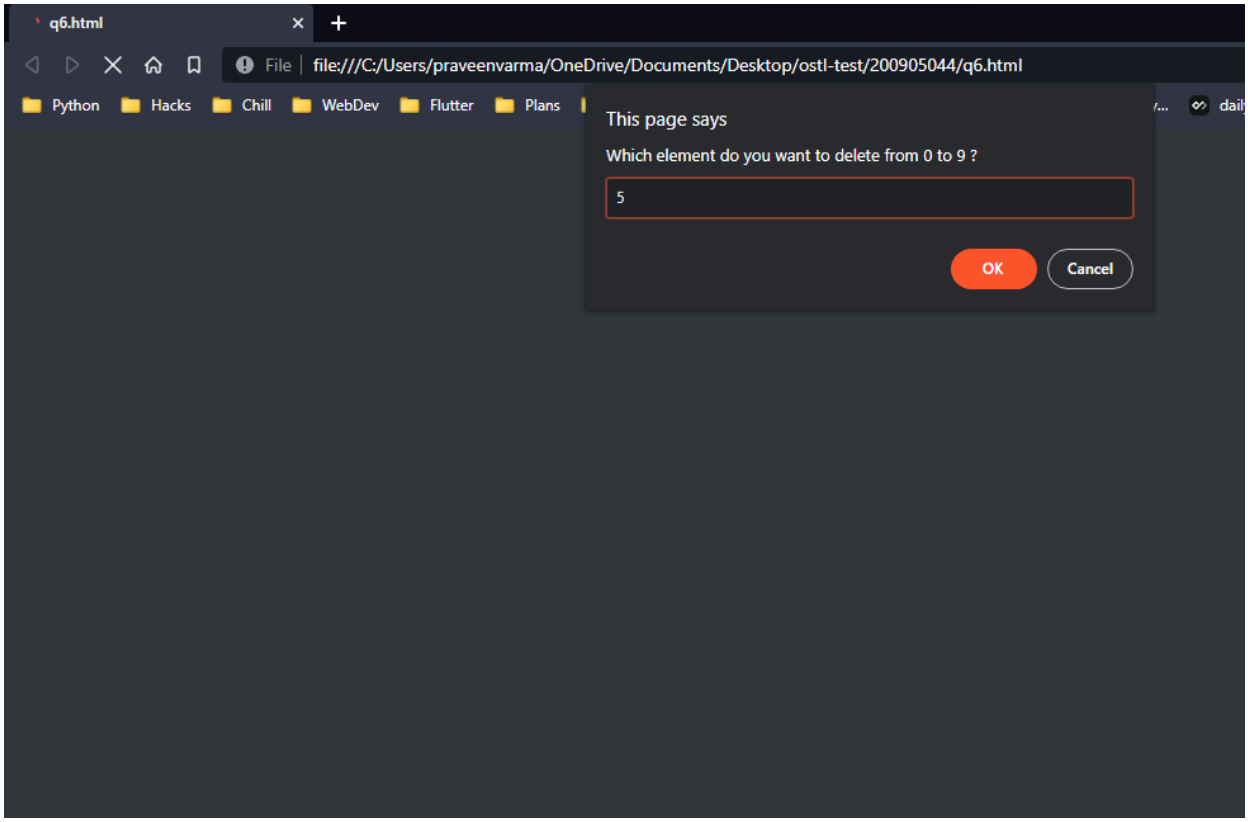
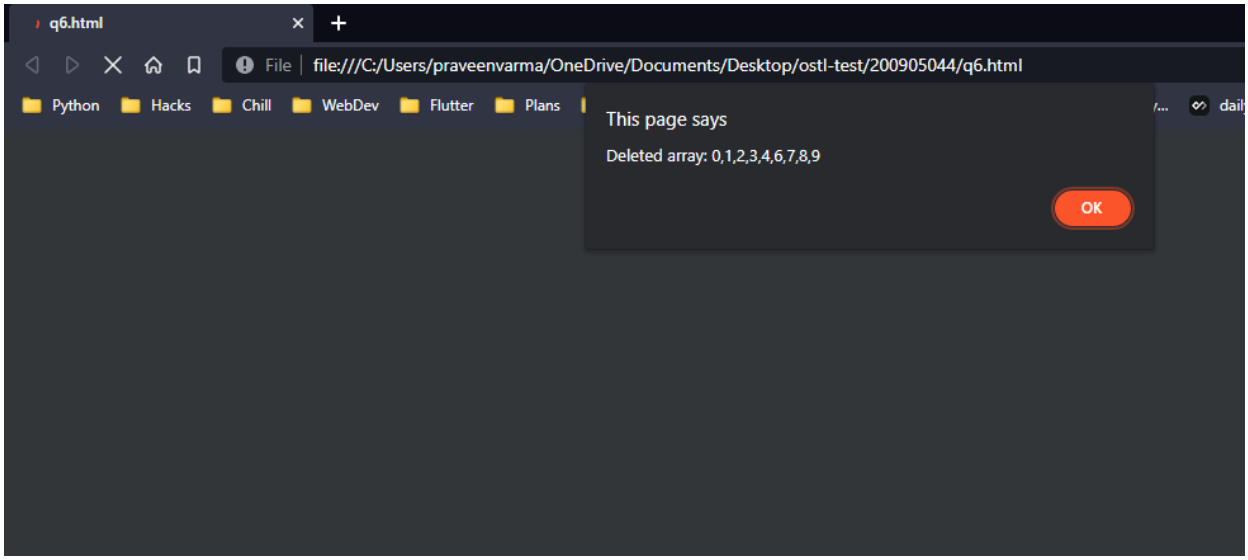
6. Write the JavaScript program to add items into the array and delete items from array using two methods.

Solution:-

```
<!DOCTYPE html>
<html>
<body>
<script>
        var arr = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9];
        var x =prompt('Which element do you want to delete from 0 to 9 ?');
        for( var i = 0; i < arr.length; i++)
        {
          if ( arr[i] === parseInt(x))
          {
            arr.splice(i, 1);
          }
        }
        alert("Deleted array: "+arr);
        var x =prompt('Which element do you want to insert ?');
        arr.push(x);
        alert("Inserted array: "+arr);
</script>
</body>
</html>
```

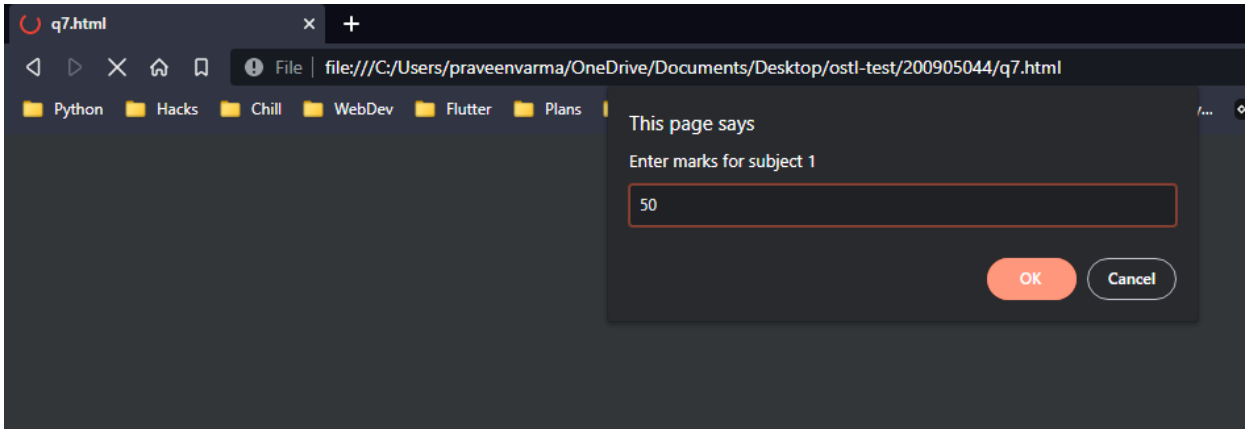


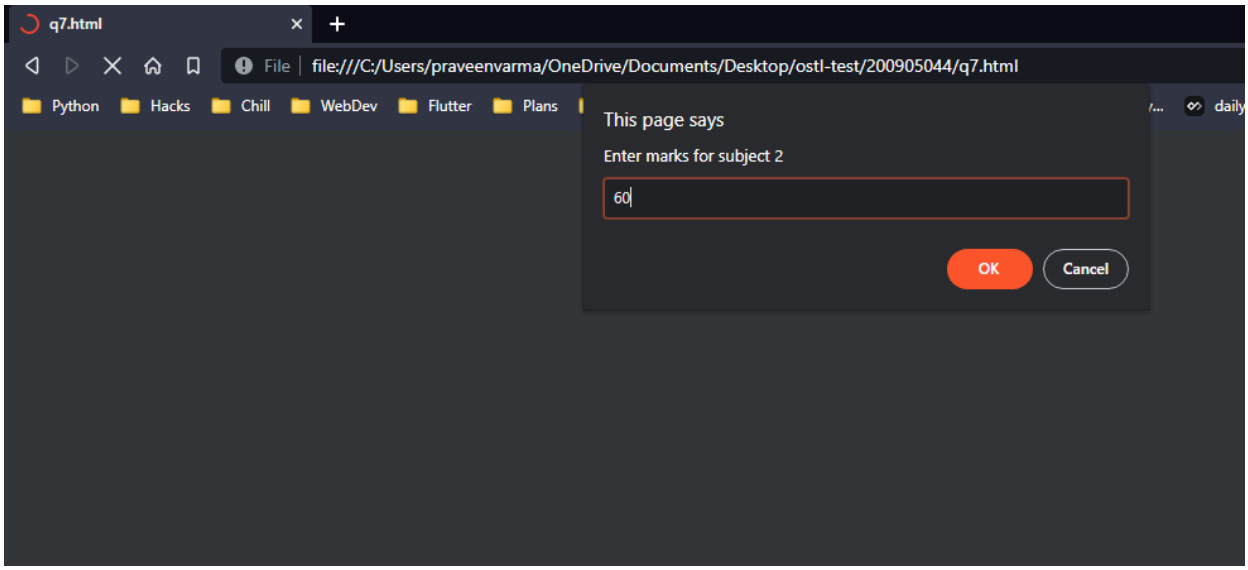

q6.html
File
file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q6.html
Python
Hacks
Chill
WebDev
Flutter
Plans
This page says
Deleted array: 0,1,2,3,4,6,7,8,9
OK

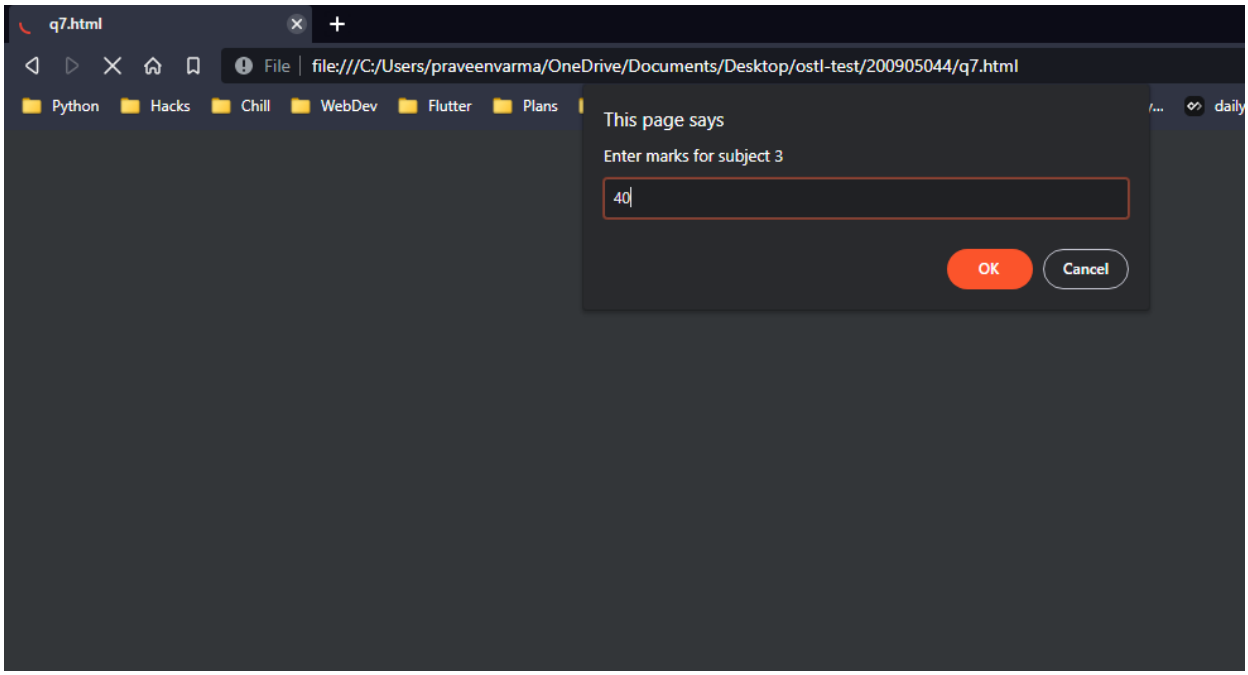
7. Write the java script program to display the grade [A, B,C,D] based on the marks entered by student(take the input into text boxes). Enter the marks of 4 subjects and calculate the average(using button). If the avg>90 then A, avg>80 then B, if avg>70 then C, if avg>60 then D.

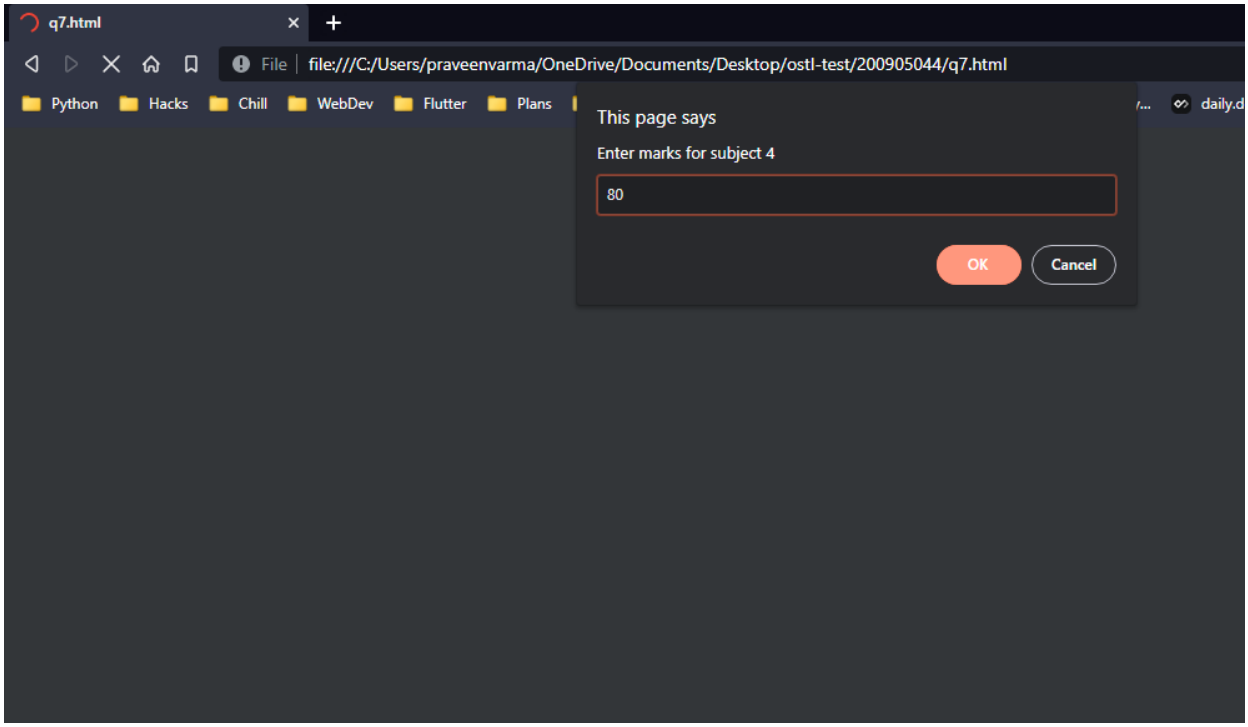
Solution:-

```
<!DOCTYPE html>
<html>
<body>
<script>
	var size=4;
	var avg=0;
	var inputArray = [];
	for(var i=0; i<size; i++)
	{
		inputArray[i] = prompt('Enter marks for subject '+(i+1));
		avg+=parseInt(inputArray[i]);
	}

	avg/=size;

	if(avg>90)
		alert('GRADE A');
	else if(avg>80)
		alert('GRADE B');
	else if(avg>70)
		alert('GRADE C');
	else if(avg>60)
		alert('GRADE D');
	else
		alert('Fail')
</script>
</body>
</html>
```


q7.html
File | file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q7.html
Python Hacks Chill WebDev Flutter Plans
This page says
Enter marks for subject 1
50
OK
Cancel


q7.html
File | file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q7.html
Python Hacks Chill WebDev Flutter Plans
This page says
Enter marks for subject 2
60
OK
Cancel


q7.html
File | file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q7.html
Python Hacks Chill WebDev Flutter Plans
This page says
Enter marks for subject 3
40
OK
Cancel


q7.html
File
file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q7.html
Python
Hacks
Chill
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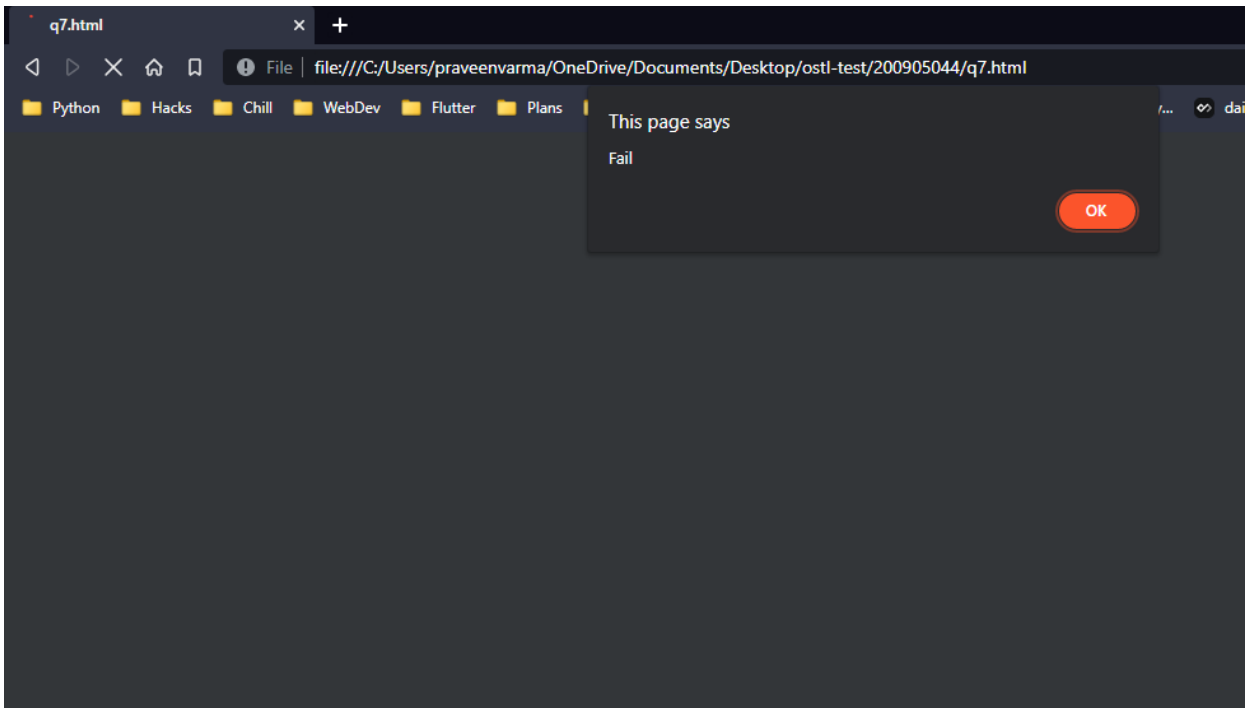
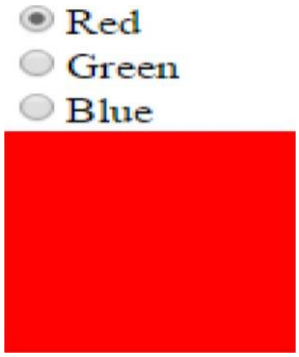
Plans
This page says
Enter marks for subject 4
80
OK
Cancel


q7.html
File
file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q7.html
Python
Hacks
Chill
WebDev
Flutter
Plans
This page says
Fail
OK

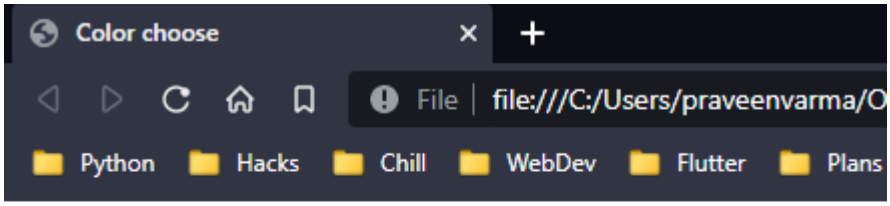
8. Write the JavaScript program to show the below output.



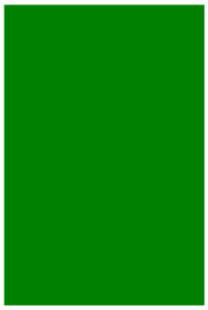
Solution:-

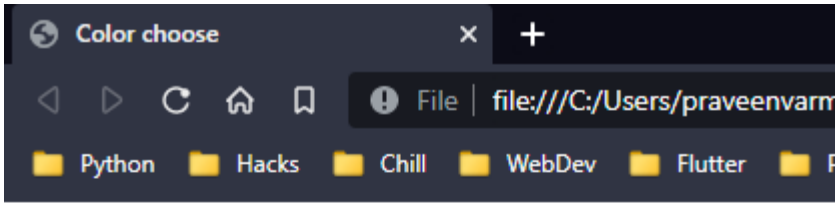
```
<!DOCTYPE html>
<html>
<head>
	<title>Color choose</title>
</head>
<body>
	<form>
	<input type="radio" id="button1" onclick="func1();" name="button1"
value="red">Red</input><br>
	<input type="radio" id="button2" onclick="func2();" name="button2"
value="green">Green</input><br>
	<input type="radio" id="button3" onclick="func3();" name="button3"
value="blue">Blue</input><br>
	</form>
	<canvas id="myCanvas" width="300" height="300"></canvas>
	<script>

	function func1()
	{
		var canvas = document.getElementById("myCanvas");
		var ctx = canvas.getContext("2d");
		ctx.fillStyle = "red";
		ctx.fillRect(55,50,100,150);
	}

	function func2()
	{
		var canvas = document.getElementById("myCanvas");
		var ctx = canvas.getContext("2d");
		ctx.fillStyle = "green";
```

```
                ctx.fillRect(55,50,100,150);
        }

        function func3()
        {
                var canvas = document.getElementById("myCanvas");
                var ctx = canvas.getContext("2d");
                ctx.fillStyle = "blue";
                ctx.fillRect(55,50,100,150);
        }
</script>
</body>
```



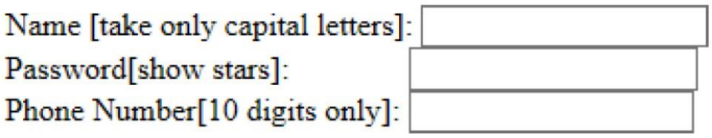
Red
Green
Blue





Red
Green
Blue

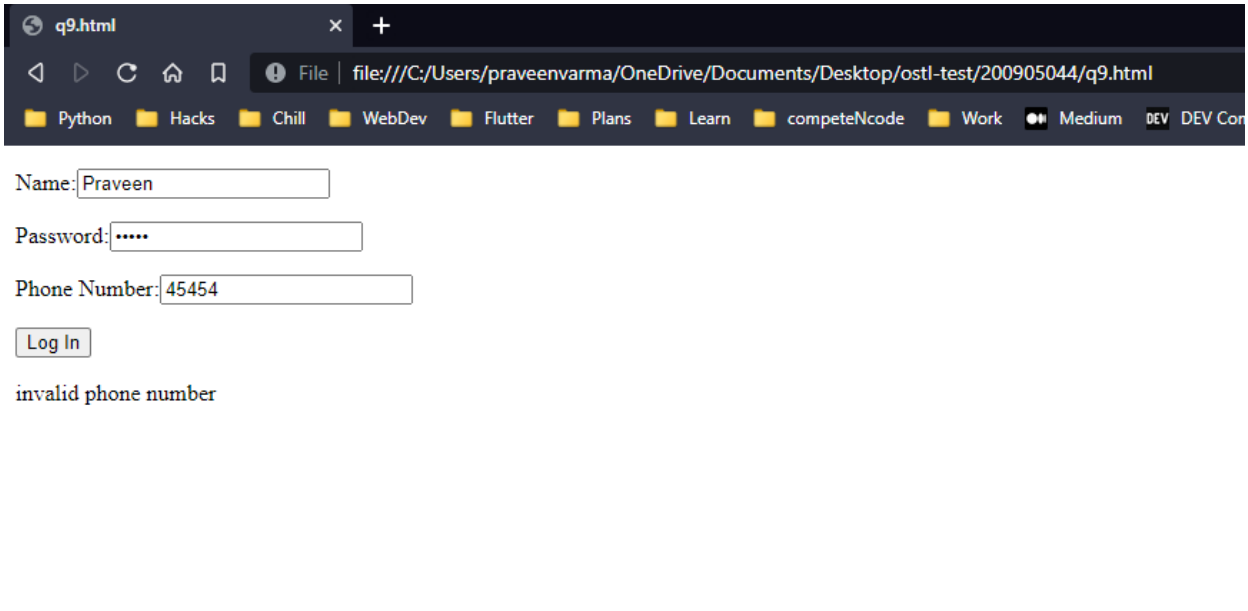
9. Write the HTML5 program to display following with validation to each field.



Solution:-

```
<!DOCTYPE html>
<html>
<head>
 <title></title>
</head>
<body>

<p>Name:<input type="text" id="fname"/></p>
<p>Password:<input type="password" id="password"/></p>
<p>Phone Number:<input type="number" id="phone"/></p>

<button type="button" onclick="myFunction()">Log In</button>


<script>
 function myFunction()
 {
        var i;

  var name = document.getElementById("fname").value;
  var password = document.getElementById("password").value;
  var phone = document.getElementById("phone").value;

  if(phone.length==10)
  {
   document.getElementById("demo").innerHTML="valid phone number";
  }

  else
  {
   document.getElementById("demo").innerHTML="invalid phone number";
  }
 }
</script>
<p id="demo"></p>
```

```
</body>
</html>
```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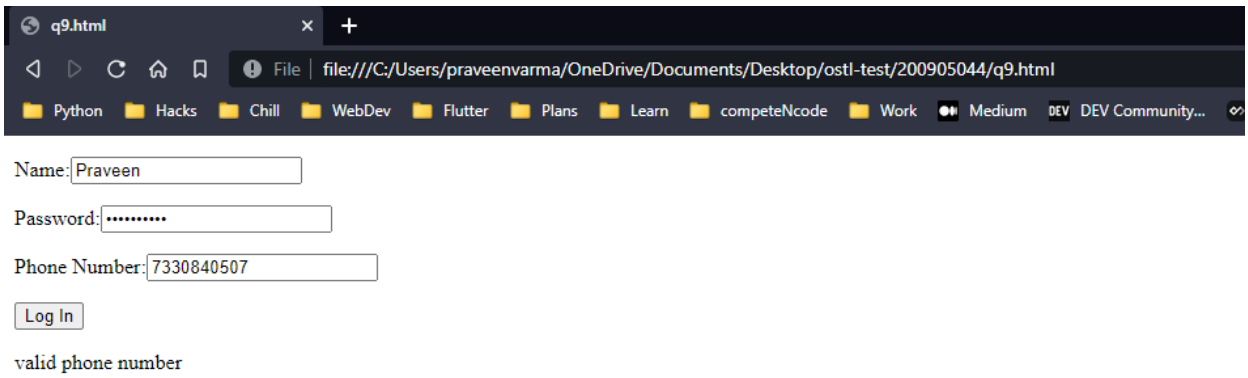
Python
Hacks
Chill
WebDev
Flutter
Plans
Learn
competeNcode
Work
Medium
DEV Con
Name: Praveen
Password: •••••
Phone Number: 45454
Log In
invalid phone number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Python
Hacks
Chill
WebDev
Flutter
Plans
Learn
competeNcode
Work
Medium
DEV Community...
Name: Praveen
Password: ••••••••••
Phone Number: 7330840507
Log In
valid phone number

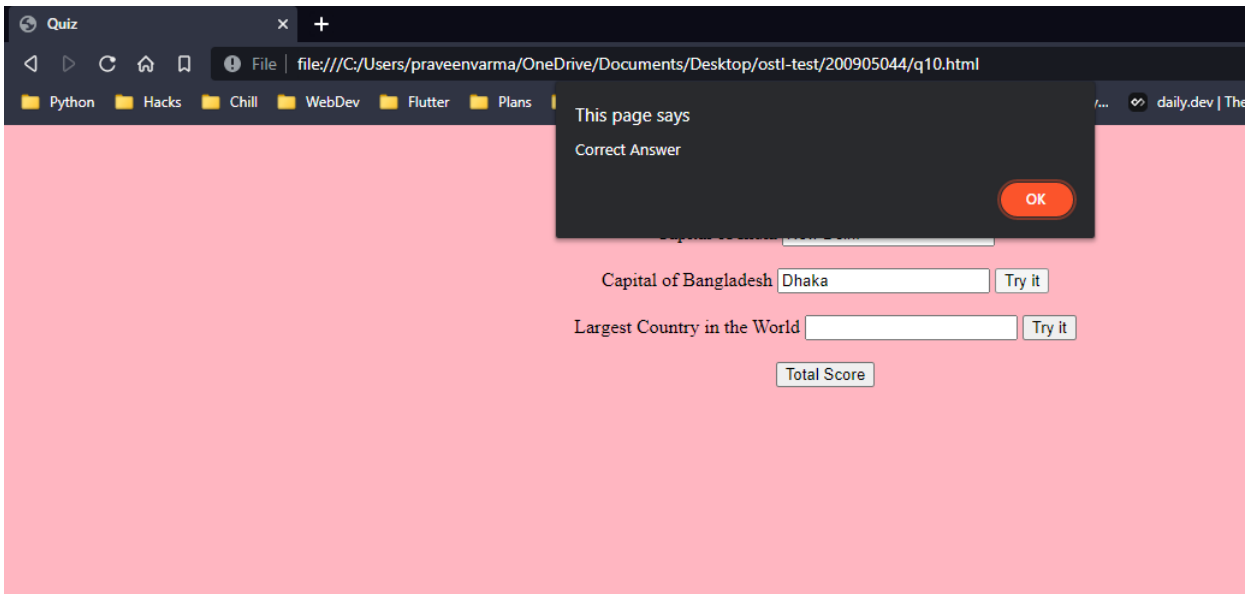
10. Write a JavaScript program to perform an online quiz.

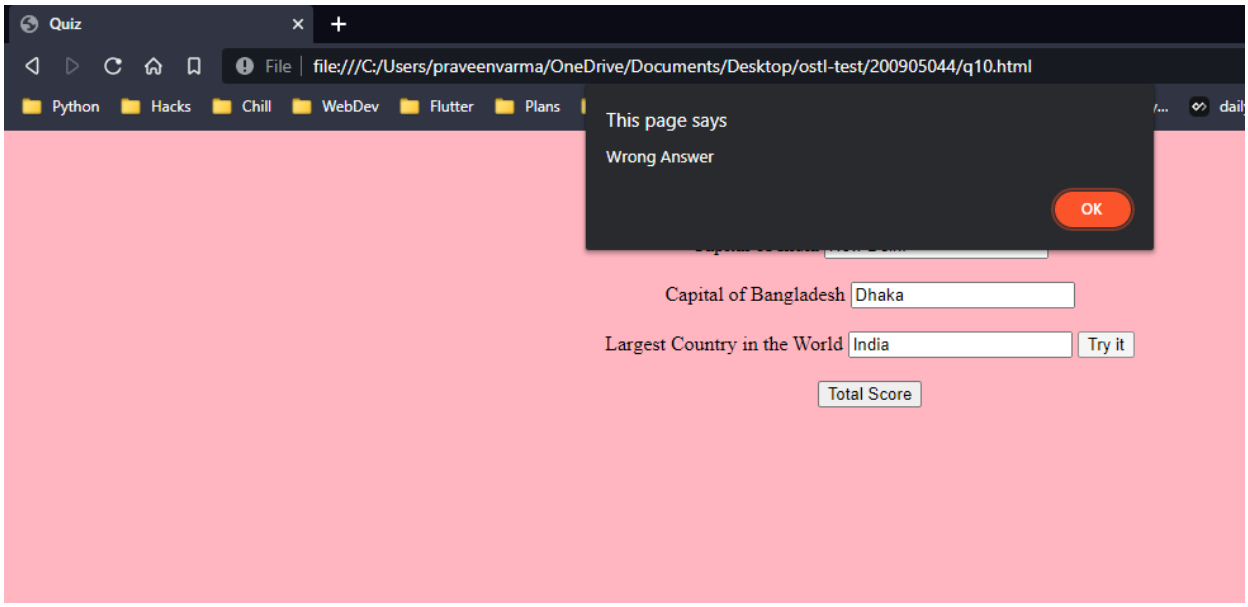
Solution:-

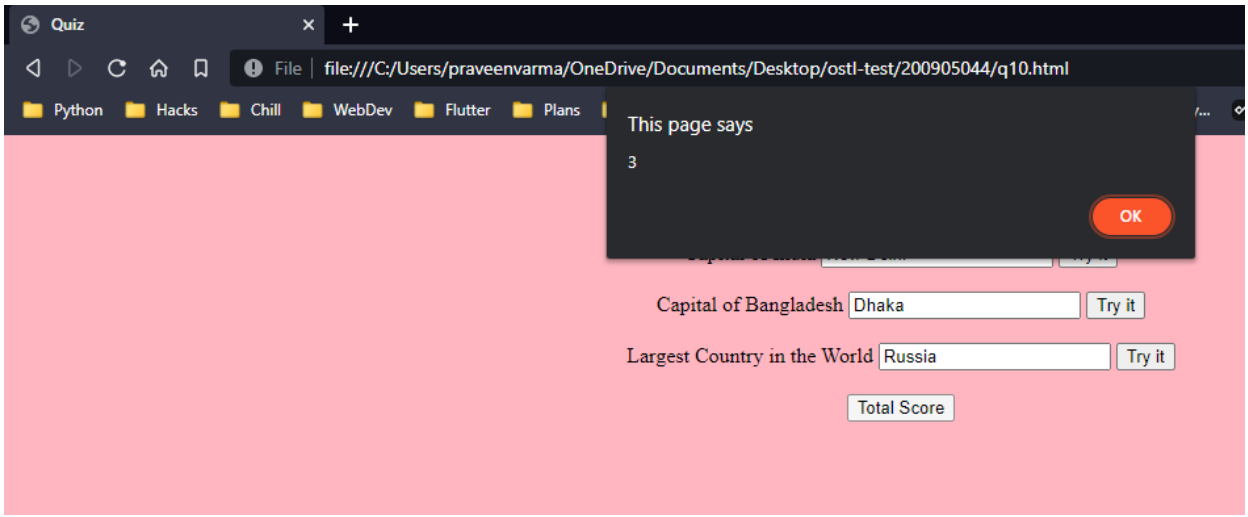
```
<!DOCTYPE html>
<html>
<head>
	<title>Quiz</title>
</head>
<body style="text-align: center;background-color: lightpink">

<h1>QUIZ</h1>
Capital of India <input type="text" id="Text1" >
<button id ="But1" onclick="myFunction1()">Try it</button>
<br></br>
Capital of Bangladesh <input type="text" id="Text2" >
<button id ="But2" onclick="myFunction2()">Try it</button>
<br></br>
Largest Country in the World <input type="text" id="Text3" >
<button id ="But3" onclick="myFunction3()">Try it</button>
<br></br>
<button id ="But4" onclick="myFunction4()">Total Score</button>
<script>

	var string;
	var count=0;

	function myFunction1()
	{
		var string1="New Delhi";
		string = document.getElementById("Text1").value;
		if(string1==string)
		{
			count=count+1;
			alert('Correct Answer');
			var elem = document.getElementById("But1");
			elem.parentNode.removeChild(elem);
		}

		else
		{

			alert('Wrong Answer');
			var elem = document.getElementById("But1");
			elem.parentNode.removeChild(elem);
```

```
	}
}
function myFunction2()
{
	var string1="Dhaka";
	string = document.getElementById("Text2").value;

	if(string1==string)
	{
		count=count+1;
		alert('Correct Answer');
		var elem = document.getElementById("But2");
		elem.parentNode.removeChild(elem);

	}

	else
	{
		alert('Wrong Answer');
		var elem = document.getElementById("But2");
		elem.parentNode.removeChild(elem);

	}
}

function myFunction3()
{
	var string1="Russia";
	string = document.getElementById("Text3").value;

	if(string1==string)
	{
		count=count+1;
		alert('Correct Answer');
		var elem = document.getElementById("But3");
		elem.parentNode.removeChild(elem);

	}

	else
	{
		alert('Wrong Answer');
		var elem = document.getElementById("But3");
		elem.parentNode.removeChild(elem);
	}
}
```

```
        function myFunction4()
        {
                var string1="New Delhi";
                string = document.getElementById("Text1").value;

                if(string1==string)
                {
                        count=count+1;
                }

                string1="Dhaka";
                string = document.getElementById("Text2").value;

                if(string1==string)
                {
                        count=count+1;
                }

                string1="Russia";
                string = document.getElementById("Text3").value;

                if(string1==string)
                {
                        count=count+1;
                }
                alert(count);
        }
</script>
</body>
</html>
```




Quiz
file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q10.html
Python
Hacks
Chill
WebDev
Flutter
Plans
This page says
Wrong Answer
OK
Capital of Bangladesh
Dhaka
Largest Country in the World
India
Try it
Total Score


Quiz
file:///C:/Users/praveenvarma/OneDrive/Documents/Desktop/ostl-test/200905044/q10.html
Python
Hacks
Chill
WebDev
Flutter
Plans
This page says
3
OK
Capital of Bangladesh
Dhaka
Try it
Largest Country in the World
Russia
Try it
Total Score

THANK YOU!