Manoj M Mallya

200905130

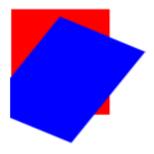
Section: C2

Roll no. : 23

OSTL – 8 – ADDITIONAL HTML , JAVASCRIPT QUESTIONS

Exercise questions:

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



```
<!DOCTYPE html>
<html>
<head>
<title>Q1 Image Display </title>
<style type="text/css">
*{
text-align: left;
</style>
</head>
<body>
<canvas id="myCanvas" width="200" height="300">
<script type="text/javascript">
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
ctx.fillStyle = "green";
ctx.fillRect(20, 20, 125, 200);
var d = document.getElementById("myCanvas");
```

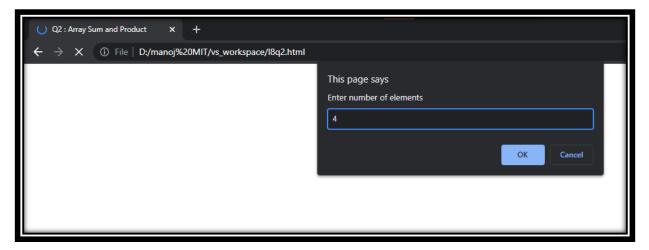
```
var dtx = d.getContext("2d");
dtx.fillStyle = "orange";
ctx.rotate(40 * Math.PI / 180);
dtx.fillRect(100, -20, 125, 200);
</script>
</canvas>
</body>
</html>
```

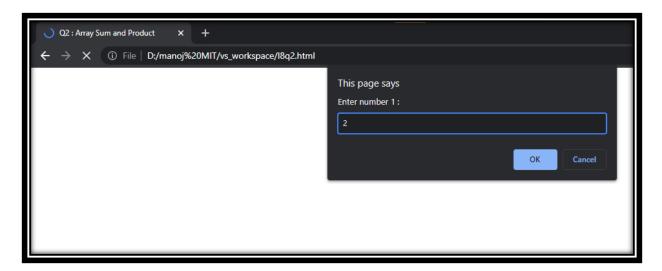


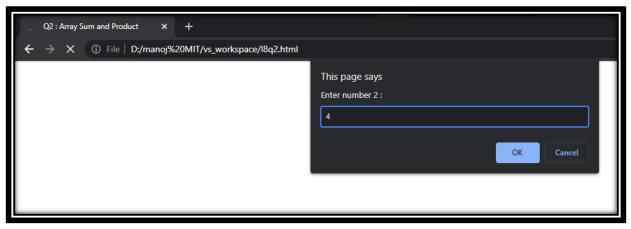
2. Write a JavaScript program to compute the sum and product of an array of integers. Take the array elements from user. (Use alert command)

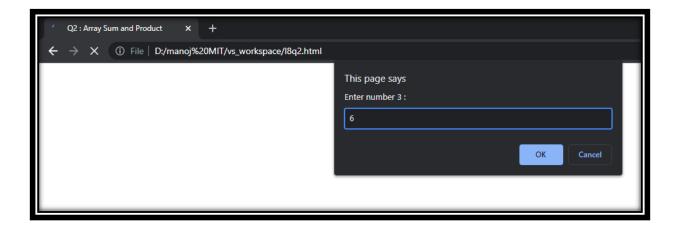
HTML Code:

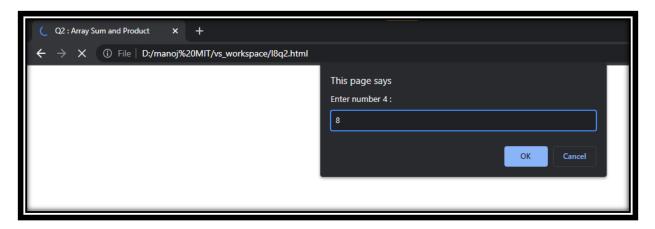
```
<!DOCTYPE html>
<html>
<head>
<title>Q2 : Array Sum and Product</title>
</head>
<body>
<script>
var sum = 0;
var num = prompt("Enter number of elements ");
var arr = Array();
var product = 1;
for(var i = 0; i < num; i = i + 1){
n = prompt("Enter number " + (i+1) + " : ");
sum += parseInt(n);
product *= n;
alert("Sum is " + sum +", Product is " + product);
</script>
</body>
</html>
```

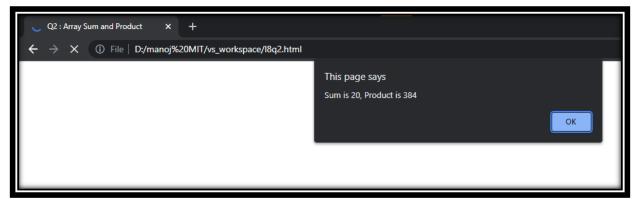








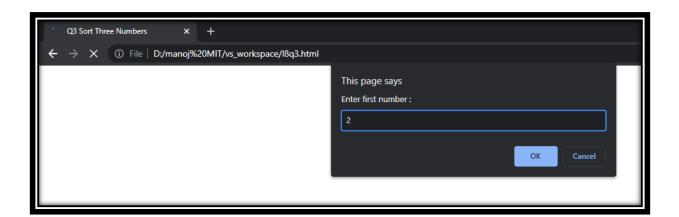


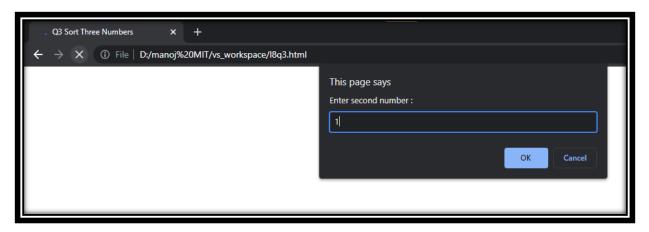


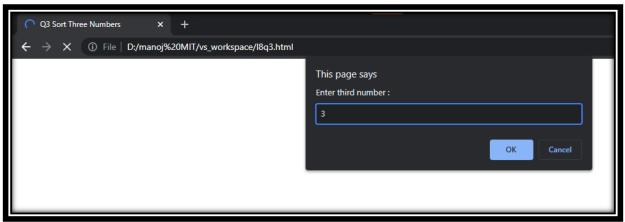
3. Write a JavaScript conditional statement to sort any three numbers. Display an alert box to show the result.

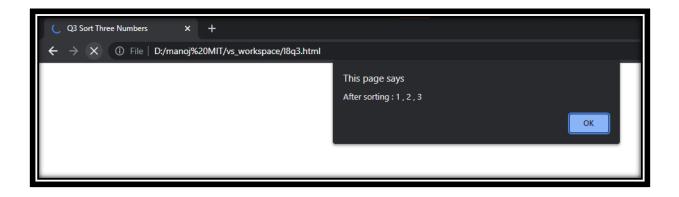
```
<!DOCTYPE html>
<html>
<head>
<title>Q3 Sort Three Numbers</title>
</head>
<body>
<script type="text/javascript">
var a = parseInt(prompt("Enter first number :"));
var b = parseInt(prompt("Enter second number :"));
var c = parseInt(prompt("Enter third number :"));
if(a > b){
if(a > c){
max = a;
}
else{
max = c;
```

```
}
else if( b > a){
    if(b > c){
    max = b;
}
else{
    max = c;
}
}
if(a > b && c > b){
    min = b;
}
else if(b > a && c > a){
    min = a;
}
else{
    min = c;
}
mid = a + b + c - max - min;
alert("After sorting : " + min + " , " + mid + " , " + max);
</script>
</body>
</html>
```





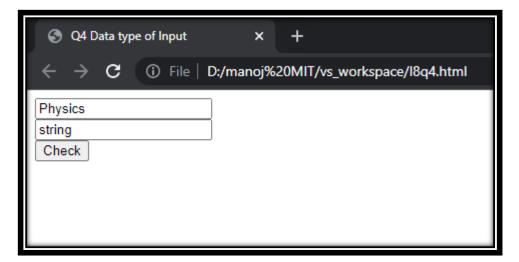


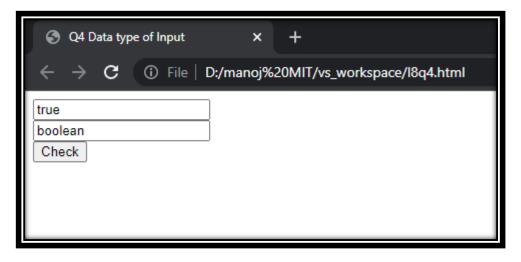


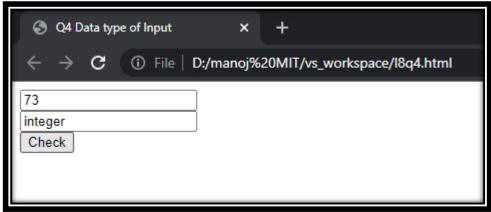
4. Write a java script program to take some input from the user [string, integer and Boolean]. Based on the input, display the type of the input in the 'text box'.

HTML Code:

```
<!DOCTYPE html>
<html>
 <title>Q4 Data type of Input</title>
</head>
<body>
<script type="text/javascript">
function checkInput() {
var input = document.getElementById("inp").value;
 var output = document.getElementById("out")
if (input.match(/(true)|(false)/g))
output.setAttribute("value" ,"boolean");
 else if (input.match(/[A-z]/g))
 output.setAttribute("value" ,"string");
 else output.setAttribute("value" ,"integer");
</script>
<input type="text" name="in" id="inp" placeholder="Enter something..."><br>
<input type="text" name="out" id="out"><br>
<button onclick="checkInput()">Check</button>
</body>
</html>
```

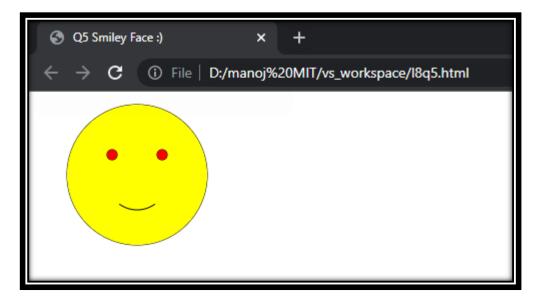






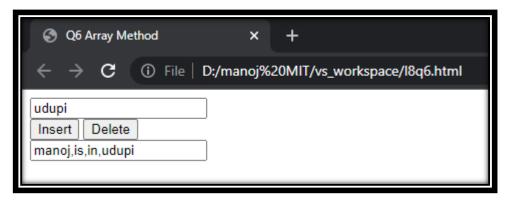
5. Write the HTML5 program to draw a "smiling face" picture using the canvas tag.

```
ctx.fill();
var d = document.getElementById("myCanvas");
var dtx = d.getContext("2d");
dtx.beginPath();
dtx.arc(75, 55, 5, 0, 2 * Math.PI);
dtx.stroke();
dtx.fillStyle = "red";
dtx.fill();
var e = document.getElementById("myCanvas");
var etx = e.getContext("2d");
etx.beginPath();
etx.arc(125, 55, 5, 0, 2 * Math.PI);
etx.stroke();
etx.fillStyle = "red";
etx.fill();
var f = document.getElementById("myCanvas");
var ftx = f.getContext("2d");
ftx.beginPath();
ftx.arc(100, 80, 30, 0.3 * Math.PI, 0.7 * Math.PI);
ftx.stroke();
</script>
</canvas>
</body>
```

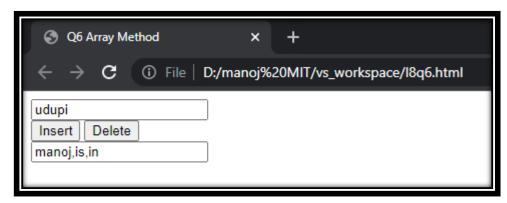


6. Write the JavaScript program to add items into the array and delete items from array using two methods.

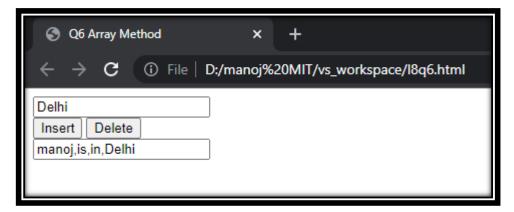
```
<!DOCTYPE html>
<html>
<head>
 <title>Q6 Array Method</title>
</head>
<body>
 <script type="text/javascript">
 var array = [];
 function add(value) {
 array.push(value);
 document.getElementById("array_out").setAttribute("value", array);
 function del(value) {
 for (var i = array.length -1; i >= 0; i--) {
 if (array[i] == value) {
 array.splice(i, 1);
 document.getElementById("array_out").setAttribute("value", array);
 </script>
 <input type="text" name="input" id="word_in" placeholder="Enter word to</pre>
del/add"><br>
 <button onclick="add(getElementById('word_in').value)">Insert</button>
 <button onclick="del(getElementById('word_in').value)">Delete</button><br>
 <input type="text" name="output" id="array_out">
</body>
```



Deleting udupi...



Inserting Delhi...



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.

HTML Code:

```
<!DOCTYPE html>
<html>
<head>
 <title>Q7 Calculating Grades</title>
</head>
<body>
<script type="text/javascript">
 function calc() {
 var sum=0;
 for (var i = 1; i <= 4; i++) {
 sum += parseInt(document.getElementById('m'+i).value);
 var avg = sum/4;
 var grade = "";
 if (avg < 60) grade = 'Fail';</pre>
 else if (avg < 70 && avg > 60) grade = 'D';
 else if (avg < 80 && avg > 70) grade = 'C';
 else if (avg < 90 && avg > 80) grade = 'B';
 else grade = 'A';
 alert('The Grade is : '+ grade );
</script>
Enter marks in subject Sanskrit: <input type="text" name="m1" id="m1"><br>
Enter marks in subject Social: <input type="text" name="m2" id="m2"><br>
Enter marks in subject Maths: <input type="text" name="m3" id="m3"><br>
Enter marks in subject Computer Science: <input type="text" name="m4"</pre>
id="m4"><br>
<button onclick="calc()">Calculate
</body>
</html>
```

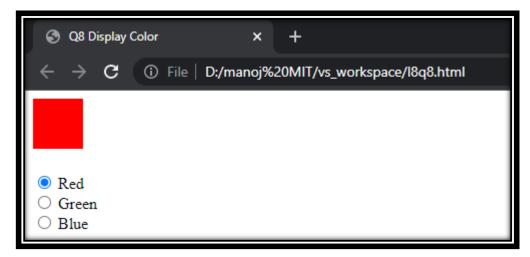
Q7 Calculating Grades x +	
\leftarrow \rightarrow $f C$ $\ \ $ $\ \ $ $\ \ $ File $\ \ $ D:/manoj%20MIT/vs_workspace/l8q7.html	
Enter marks in subject Sanskrit: 86 Enter marks in subject Social: 61 Enter marks in subject Maths: 66 Enter marks in subject Computer Science: 74 Calculate	This page says The Grade is : C OK

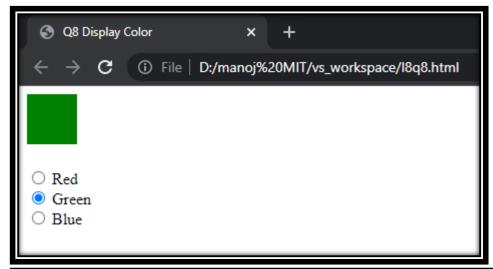
8. Write the JavaScript program to show the below output.

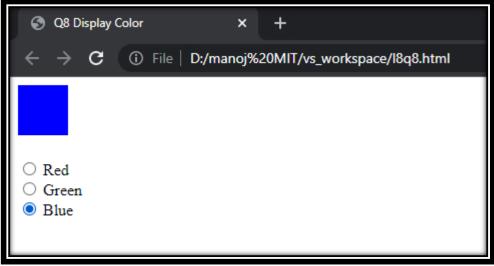


```
<!DOCTYPE html>
<html>
<title>Q8 Display Color</title>
<script type="text/javascript">
function red(){
var canvas = document.getElementById("canvas");
var ctx = canvas.getContext("2d");
ctx.fillStyle = "red";
ctx.fillRect(0, 0, 50, 50);
function green(){
var canvas = document.getElementById("canvas");
var ctx = canvas.getContext("2d");
ctx.fillStyle = "green";
ctx.fillRect(0, 0, 50, 50);
function blue(){
var canvas = document.getElementById("canvas");
var ctx = canvas.getContext("2d");
ctx.fillStyle = "blue";
ctx.fillRect(0, 0, 50, 50);
</script>
<body>
 <canvas width=70 height=70 id="canvas"></canvas>
 <form>
 <input type="radio" onclick="red();"> Red<br>
 <input type="radio" onclick="green();"> Green<br>>
 <input type="radio" onclick="blue();"> Blue
 </form>
```

```
</body>
```





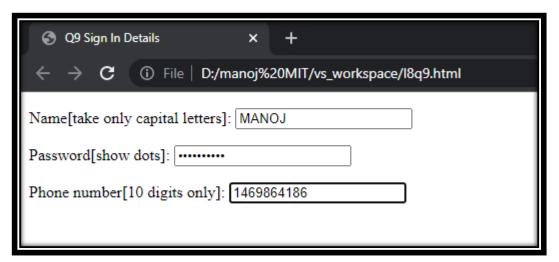


9. Write the HTML5 program to display following with validation to each field.

Name [take only capital letters]:	-1
Password[show stars]:	
Phone Number[10 digits only]:	

HTML Code:

```
<!DOCTYPE html>
<head>
<title>Q9 Sign In Details</title>
</head>
<body>
Name[take only capital letters]:
<input type="text" name="onlyalphabet" onkeypress="return (event.charCode >
64 &&
event.charCode < 91)">
Password[show dots]:
<input type="password" name="pwd" maxlength="10">
>Phone number[10 digits only]:
<input type="text" id="phone" name="phone" maxlength="10" pattern="[1-</pre>
9]{1}[0-9]{9}">
</body>
</html>
```



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

```
<!DOCTYPE html>
<html>
<head>
  <title>Q10 : Online Quiz</title>
</head>
<body>
  <h1 style = "text-align: left;color:chocolate">Online Quiz</h1>
  <script type="text/javascript">
  function calculate_score() {
  var score = 0;
if (document.getElementById("q12").checked)
score += 1;
if (document.getElementById("q23").checked)
if (document.getElementById("q31").checked)
score += 1;
document.getElementById('Score').innerHTML = " "+score;
</script>
<br/>

<input type="radio" name="g1" id="g11">Kuala Lumpur<br>
<input type="radio" name="q1" id="q12">Buenos Aires<br>
<input type="radio" name="q1" id="q13">Nairobi<br><br>
<br/>b>Which is the longest river in the world ? </b><br>
<input type="radio" name="q2" id="q21">Amazon<br>
<input type="radio" name="q2" id="q22">Ganges<br>
<input type="radio" name="q2" id="q23">Nile<br><br>
<b>Which colonial power ended in India in 1868 ?</b>
<input type="radio" name="q3" id="q31">Denmark<br>
<input type="radio" name="q3" id="q32">Italy<br>
<input type="radio" name="q3" id="q33">French<br><br>
<button onclick="calculate_score()">Submit</button><br><hr>
<b>Score:</b>
<span id="Score"></span>
</body>
</html
```

← → C ③ File D:/manoj%20MIT/vs_workspace/l8q10.html	
Online Quiz	
What is the capital of Argentina ?	
O Kuala Lumpur	
Buenos Aires	
○ Nairobi	
Which is the longest river in the world ?	
OAmazon	
○ Ganges	
● Nile	
Which colonial power ended in India in 1868 ?	
Denmark	
○ Italy	
○French	
Submit	
Score: 3	
