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200905130

Section: C2

*Roll no.* : 23

# OST-LAB-7

## <u>Lab – 6 pending question :</u>

15. Making the HTML5 page more stylish using CSS

- · Using inline style style attribute
- Using embedded style
- · Link to an external style sheet Link element

```
Html code:

<!DOCTYPE html>
<html>
<head>
<title>Question Seven</title>
link rel="stylesheet" type="text/css" href="index.css">
<style type="text/css">
body{
background-color:mediumorchid;
}
div{
border: 2px solid blue;
border-radius: 5px;
}
</style>
</head>
```

```
<body>
<h1 style="text-align: center;">This is a h1 tag</h1>
<h2>This is a h2 tag</h2>
<h3>This is a h3 tag</h3>
<h4>This is a h4 tag</h4>
<h5>This is a h5 tag</h5>
<h6>This is a h6 tag</h6>
This is the p tag. We can write multiple
paragraphs here.
<b>This is bold text</b>
<i>This is italic text</i>
This is<sup>superscript</sup> text
THis is<sub>subscript</sub> text
<
This
is
a
preformatted
text
This text is <del>left</del><ins>right</ins> to
left
<div>This is a div <span>(This is a span element(inline element))</span>
element (block
element)</div>
</body>
</html>
```

```
CSS code:
*{
  padding:10px;
  margin: 0px;
  text-align: center;
  }
 p{
  color: rgb(214, 25, 25);
 h1{
  color:yellow;
 }
 h2{
  color:pink;
  }
 h4{
  opacity: 0.4;
  }
pre{
  background-image: url(index1.jpg);
  background-position: center;
  }
```

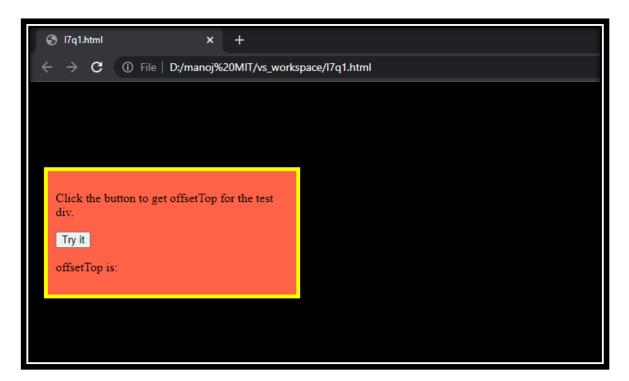


### **Lab 7 Exercises :**

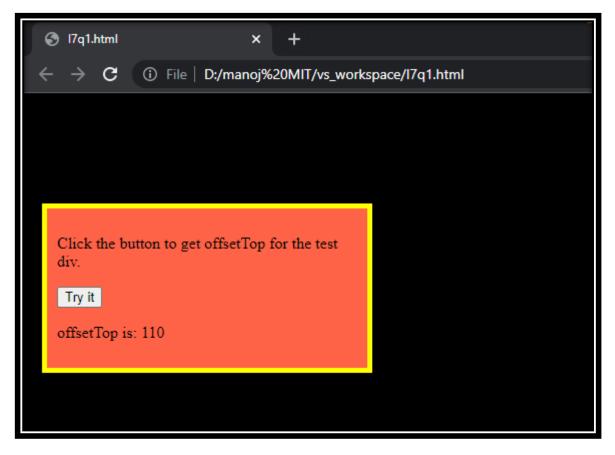
 Create an HTML5 document to get an HTML5 element's position on the web page with the help of CSS and JavaScript function.

```
Html code:
<!DOCTYPE html>
<html>
<head>
<style>
body{
background-color: black;
}
#test {
top: 100px;
margin: 10px;
```

```
padding: 10px;
width: 300px;
position: relative;
border: 5px solid yellow;
background-color: tomato;
}
</style>
</head>
<body>
<div id="test">
Click the button to get offsetTop for the test div.
<button onclick="myFunction()">Try it</button>
offsetTop is: <span id="demo"></span>
</div>
<script>function myFunction() {
var testDiv = document.getElementById("test");
document.getElementById("demo").innerHTML = testDiv.offsetTop;
}
</script>
</body>
</html>
```



After clicking "Try it" button,

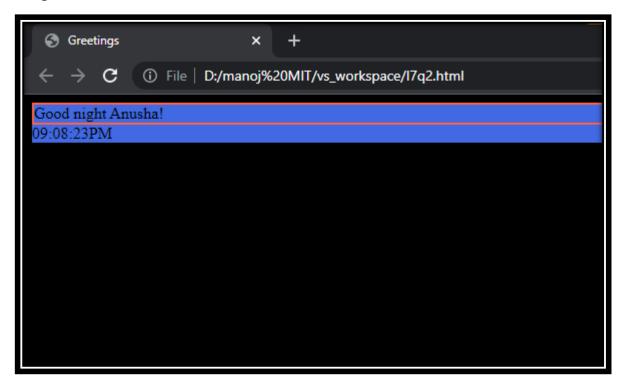


2) Write a JavaScript program to "Wish a User" at different hours of a day. Use appropriate dialog boxes for wishing the user. Display the dynamic clock on the web page. Make use of CSS and HTML5 elements for creative and attractive designs

```
Html code:
<!DOCTYPE html>
<html>
<head>
<title>Greetings</title>
<style>
*{
box-sizing: border-box;
background-color: black;
}
#hello{
border:2px solid tomato;
background-color: royalblue;
}
div#Heading{
font-weight: bold;
text-align: left;
font-size: 1rem;
margin:10px;
background-color: royalblue;
}
#text{
font-weight: bold;
```

```
text-align: left;
font-size: 1rem;
margin:10px;
background-color: royalblue;
}
#clock{
font-size: 1em;
background-color: royalblue;
}
</style>
</head>
<body>
<div id="hello"></div>
<div id="clock"></div>
</body>
<script>
setInterval(showTime, 1000);
function showTime() {
let time = new Date();
let hour = time.getHours();
let min = time.getMinutes();
let sec = time.getSeconds();
let Greetings;
am_pm = "AM";
if (hour > 12) {
hour -= 12;
am_pm = "PM";
```

```
}
if (hour == 0) {
hr = 12;
am_pm = "AM";
}
hour = hour < 10 ? "0" + hour : hour;
min = min < 10 ? "0" + min : min;
\sec = \sec < 10 ? "0" + \sec : \sec;
if(am_pm=="AM")
Greetings="Good morning Anusha!"
else if(hour<5)
Greetings="Good afternoon Anusha!"
else if(hour<8)
Greetings="Good evening Anusha!"
else
Greetings="Good night Anusha!"
let currentTime = hour + ":"
+ min + ":" + sec + am_pm;
document.getElementById("clock")
.innerHTML = currentTime;
document.getElementById("hello").innerHTML=Greetings
}
showTime();
</script>
</html>
```



Create an animation of rain using HTML5 canvas element.
 Apply appropriate usage of CSS and Javascript function to develop the animation.

```
Html code:

<!DOCTYPE html>

<html>
<head>

<title>Q3 Rain Animation</title>

<style>

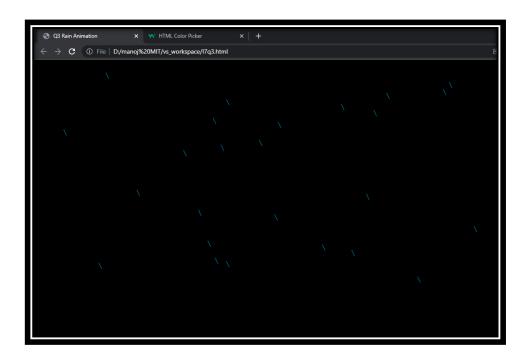
body{

background-color: black;
}

</style>
```

</head>

```
<body onload="rain()">
<script type="text/javascript">
var n = 1;
function rain() {
this.rain_len = 15;
this.rain_ang = Math.PI/2.8;
var ctx = myCanvas.getContext('2d');
var x = Math.random() * 1000;
var y = Math.random() * 500;
ctx.strokeStyle = "#0099cc";
ctx.beginPath();
ctx.moveTo(x,y);
ctx.lineTo(x-Math.cos(this.rain_ang)*this.rain_len,y-
Math.sin(this.rain_ang)*this.rain_len);
ctx.stroke();
n = n + 1;
if (n == 50) {
ctx.clearRect(0, 0, 1500, 1000);
n = 1;
var t = setTimeout(rain, 3);
}
</script>
<canvas id="myCanvas" width="1500" height="600"></canvas>
</body>
</html>
```

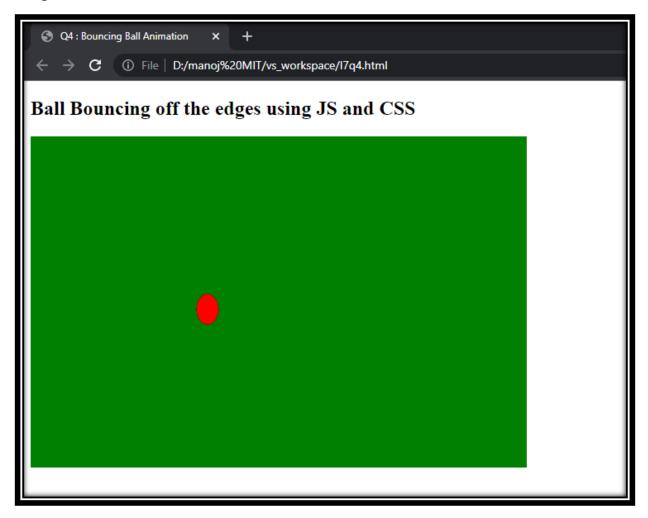


4) Create an HTML 5 document that displays a bouncing ball. Use HTML5 elements, CSS and JavaScript functions.

```
Html code:
<!DOCTYPE HTML>
<html>
<head>
<title>Q4: Bouncing Ball Animation</title>
<style>
canvas {
background-color: green;
width: 600px;
height: 400px;
}
</style>
</head>
<body>
```

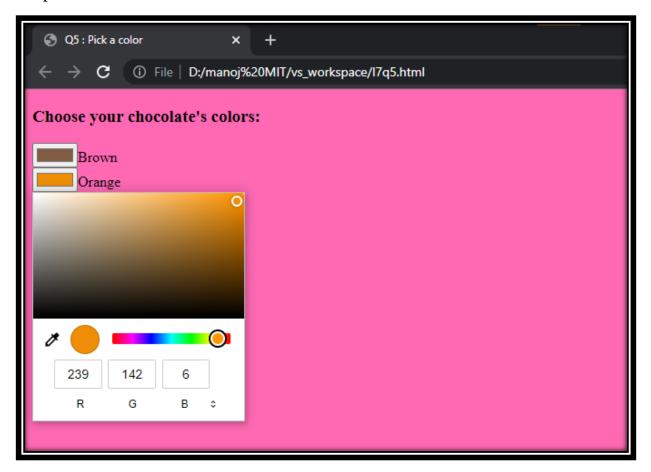
```
<h2>Ball Bouncing off the edges using JS and CSS</h3>
<canvas></canvas>
<script>
var canvas = document.querySelector("canvas");
canvas.width = window.innerWidth;
canvas.height = window.innerHeight;
var l = canvas.getContext('2d');
var x = Math.floor(Math.random() * innerWidth);
var y = Math.floor(Math.random() * innerHeight);
var vx = Math.floor(Math.random() * 4);
var vy = Math.floor(Math.random() * 4);
var radius = 30;
move();
function move() {requestAnimationFrame(move);
1.clearRect(0, 0, innerWidth, innerHeight);
1.beginPath();
1.strokeStyle = "black";
1.arc(x, y, radius, 0, Math.PI * 2, false);
1.stroke();
1.fillStyle="red";
1.fill();
if (radius + x > innerWidth)
vx = 0 - vx;
if (x - radius < 0)
vx = 0 - vx;
if (y + radius > innerHeight)
vv = 0 - vv;
```

```
if (y -radius < 0)
vy = 0 -vy;
x = x + vx;
y = y + vy;
}
</script>
</body>
</html>
```



Develop a color picker using HTML5 elements, CSS and JavaScript functions.

```
Html code:
<!DOCTYPE html>
<html>
<head>
<style>
body{
background-color:hotpink;
}
</style>
<title>Q5 : Pick a color</title>
</head>
<body><h3>Choose your chocolate's colors:</h3>
<div><input type="color" id="ice" name="ice"value="#664228"><label</pre>
for="ice">Brown</label></div>
<div><input type="color" id="milk" name="milk"value="#FFA500"><label</pre>
for="milk">Orange</label></div>
</body>
</html
```



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