### **OSTL**

### Week 7

**Udeet Mittal** 

CSE C3

Roll Number 64

1.

### Filename: index.html

```
<!DOCTYPE html>
<html>
<head>
<style>
#test {
top: 200px;
margin: 60px;
padding: 20px;
width: 400px;
position: relative;
border: 2px solid #10a729;
border-radius: 10px;
}
</style>
<title>Week7 Q1</title>
</head>
<body>
<div id="test">
```

```
<button onclick="myFunction()">Click here</button>
offsetTop is: <span id="demo"></span>
offsetLeft is: <span id="demo2"></span>
</div>
<script>function myFunction() {
    var testDiv = document.getElementById("test");
    document.getElementById("demo").innerHTML = testDiv.offsetTop;
    document.getElementById("demo2").innerHTML = testDiv.offsetLeft;
}
</script>
</body>
</html>
```

<i>Click the button to get the left and top offsets for the test div.</i>

Click the button to get the left and top offsets for the test div.

Click here

offsetTop is: 260

offsetLeft is: 68

① 127.0.0.1:5500/index.html

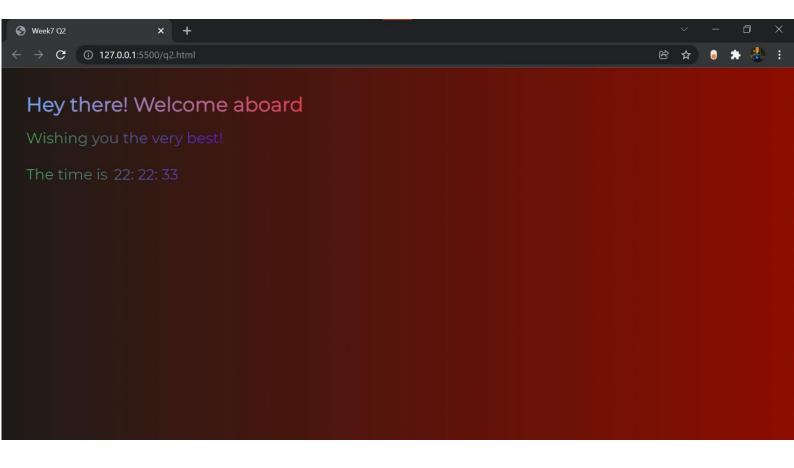
## Filename: q2.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <link rel="stylesheet" href="styles.css" />
  <title>Week7 Q2</title>
</head>
<body>
  <div>
    <h1 class="heading">Hey there! Welcome aboard</h1>
    Wishing you the very best!<br>>The time is<span id="span"></span>
    </div>
  <script src="index.js">
  </script>
</body>
</html>
```

```
Filename: styles.css
* {
  font-family: Montserrat, 'Times New Roman', Times, serif;
  box-sizing: border-box;
  margin: 20px 0px;
  padding: 0px 10px;
}
.heading {
  background: #FF1F1F;
  background: -webkit-radial-gradient(circle farthest-corner at center center,
#FF1F1F 0%, #70A9FF 100%);
  background: -moz-radial-gradient(circle farthest-corner at center center, #FF1F1F
0%, #70A9FF 100%);
  background: radial-gradient(circle farthest-corner at center center, #FF1F1F 0%,
#70A9FF 100%);
  -webkit-background-clip: text;
  -webkit-text-fill-color: transparent;
}
p {
  font-size: 24px;
  background: #6112FF;
  background: -webkit-linear-gradient(to left, #6112FF 70%, #50BA5B 100%);
  background: -moz-linear-gradient(to left, #6112FF 70%, #50BA5B 100%);
  background: linear-gradient(to left, #6112FF 70%, #50BA5B 100%);
  -webkit-background-clip: text;
  -webkit-text-fill-color: transparent;
```

}

```
body {
  background: #8E0E00;
  background: -webkit-linear-gradient(to right, #1F1C18, #8E0E00);
  background: linear-gradient(to right, #1F1C18, #8E0E00);
}
Filename: index.js
var span = document.getElementById("span");
function time() {
   var d = new Date();
   var s = d.getSeconds();
   var m = d.getMinutes();
   var h = d.getHours();
   span.textContent =
     ("0" + h).substr(-2) +
     ": " +
     ("0" + m).substr(-2) +
     ": " +
     ("0" + s).substr(-2);
}
setInterval(time, 0);
```



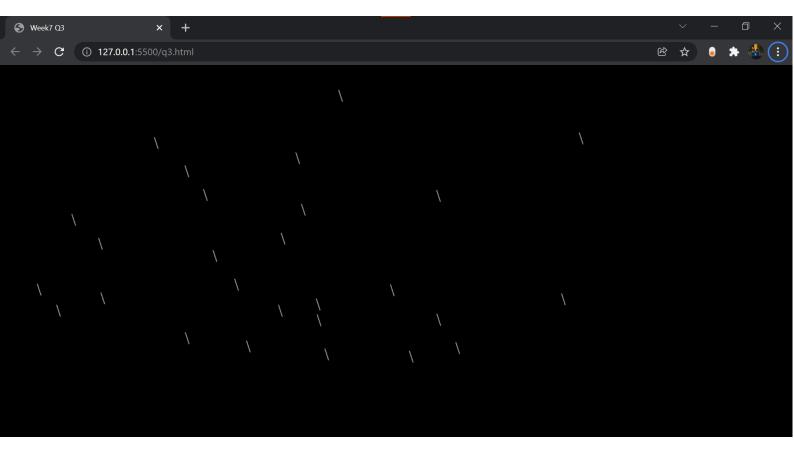
3.

# Filename: q3.html

```
<script type="text/javascript" src="scripts.js">
  </script>
  <canvas id="myCanvas" width="1000" height="500"></canvas>
  </body>
</html>
```

### Filename: scripts.js

```
var n = 1;
function rain() {
  this.rain_len = 20;
  this.rain_ang = Math.PI / 2.5;
  var ctx = myCanvas.getContext('2d');
  var x = Math.random() * 1000;
  var y = Math.random() * 600;
  ctx.strokeStyle = "white";
  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, 1000, 500);
     n = 1; }
  var t = setTimeout(rain, 3);
}
```



4.

# Filename: q4.html

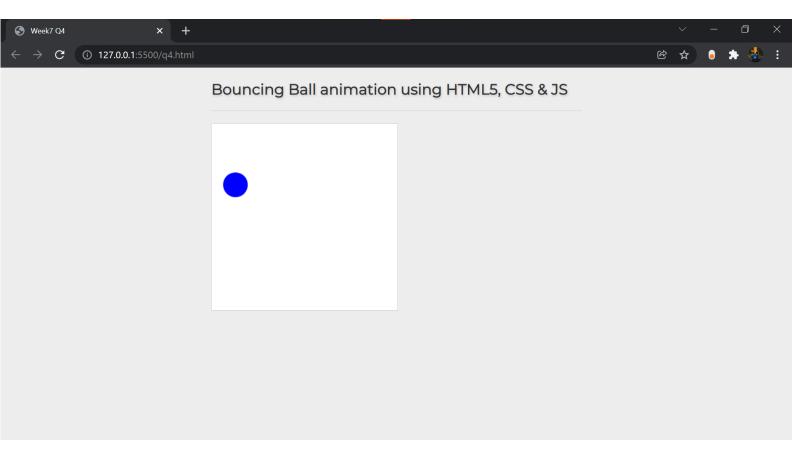
```
<h1>Bouncing Ball animation using HTML5, CSS & JS</h1>
  <div id="container">
    <canvas id="myCanvas" width="300" height="300"></canvas>
  </div>
</body>
<script src="q4.js"></script>
</html>
Filename: q4.css
body {
  background-color: #ededed;
h1 {
  display: block;
  width: 600px;
  margin: 20px auto;
  padding-bottom: 20px;
  font-family: Montserrat;
  font-size: 24px;
  color: #333;
  text-shadow: 1px 2px 3px #ccc;
  border-bottom: 1px solid #cbcbcb;
```

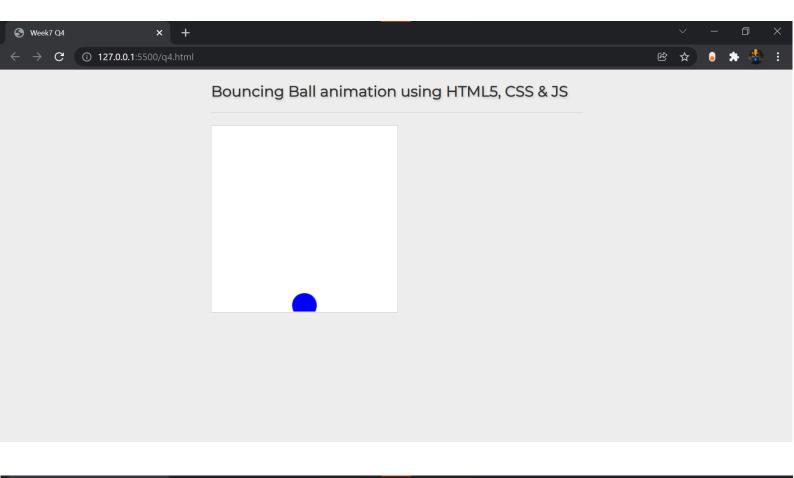
}

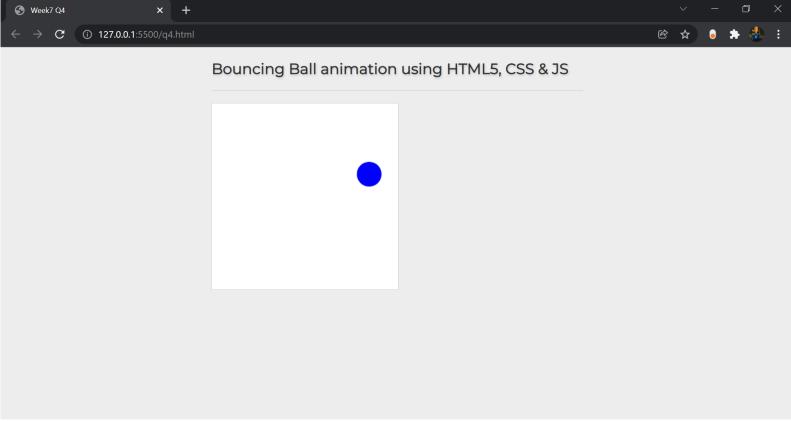
}

```
#container {
  width: 600px;
  margin: 0 auto;
}
#myCanvas {
  background: #fff;
  border: 1px solid #cbcbcb;
}
Filename: q4.js
var context;
var dx = 4;
var dy = 4;
var y = 150;
var x = 10;
function draw() {
  context = myCanvas.getContext('2d');
  context.clearRect(0, 0, 300, 300);
  context.beginPath();
  context.fillStyle = "#0000ff";
  context.arc(x, y, 20, 0, Math.PI * 2, true);
  context.closePath();
  context.fill();
  if (x < 0 || x > 300)
     dx = -dx;
  if (y < 0 || y > 300)
```

```
dy = -dy;
x += dx;
y += dy;
}
setInterval(draw, 15);
```







### Filename: q5.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8"/>
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Week7 Q5</title>
  <link rel="stylesheet" href="q5.css">
</head>
<body>
  <div class="container">
    <h1>Color Picker</h1>
    <div class="color-picker">
      <h2>Input HEX values</h2>
      <form>
         <label for="r">Red</label>
         <input name="r" class="color-picker-r" value="0"></input>
         <label for="g">Green</label>
         <input name="g" class="color-picker-g" value="0"></input>
         <label for="b">Blue</label>
         <input name="b" class="color-picker-b" value="0"></input>
         <input type="submit" value="Submit" id="submit"></input>
      </form>
```

```
<div id="selected-color"></div>
     </div>
  </div>
</body>
<script src="q5.js">
</script>
</html>
Filename: q4.css
.container {
  width: 100%;
  height: 100%;
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
}
h1 {
  font-family: Montserrat;
```

color: brown;

#selected-color {

width: 300px;

height: 300px;

margin-top: 1rem;

}

```
border-radius: 1rem;
}
```

# Filename: q5.js

```
\label{eq:constrate} \begin{aligned} & const \ r = document.querySelector(".color-picker-r"); \\ & const \ g = document.querySelector(".color-picker-g"); \\ & const \ b = document.querySelector(".color-picker-b"); \\ & document.getElementById("submit").addEventListener("click", function(event) \ \{event.preventDefault() \\ & if \ (r.value < 0 \ || \ r.value > 255 \ || \ g.value < 0 \ || \ g.value > 255 \ || \ b.value < 0 \ || \ b.value > 255 \ || \ b.value < 0 \ || \ b.value > 255 \ || \ b.value < 0 \ || \ b.value > 255 \ || \ b.value < 0 \ || \ b.value > 255 \ || \ b.value < 0 \ || \ b.value > 255 \ || \ b.value < 0 \ || \ b.value > 255 \ || \ b.value < 0 \ || \ b.value > 255 \ || \ b.value < 0 \ || \ b.
```



# Color Picker

# Input HEX values

