

**BCSE203E – Web Programming Lab**  
**Winter Semester 2024 – 2025**

**ASSESSMENT – 5**

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## QUESTION 1

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 1</title>
  <style>
    *{
      margin: 0;
      padding: 0;
    }

    body{
      background-color: bisque;
      height: 100vh;
      width: 100vw;
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
    }

    .container{
      background-color: rgb(37, 37, 37);
      height: 300px;
      width: 100px;
      border-radius: 100px;
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
      box-shadow: 0px 0px 20px rgba(0, 0, 0, 0.9);
    }

    .signal{
      height: 60px;
      width: 60px;
      margin: 20px;
      border-radius: 30px;
    }

    #red{
      background-color: rgb(207, 26, 26);
      opacity: 0.3;
    }

    #yellow{
      background-color: rgb(240, 225, 13);
      opacity: 0.3;
    }

    #green{
      background-color: rgb(8, 113, 8);
      opacity: 0.3;
    }
```

```
.button {
  font-family: 'Lucida Sans';
  margin-top: 30px;
  height: 40px;
  width: 130px;
  display: flex;
  justify-content: center;
  align-items: center;
  outline: none;
  border: none;
  cursor: pointer;
  border-radius: 11px;
  position: relative;
  background-color: rgb(64, 64, 64);
  color: rgb(222, 219, 219);
}

.buttons {
  display: flex;
  justify-content: center;
  align-items: center;
  gap: 10px;
}

.button:hover::before {
  content: "";
  position: absolute;
  top: 0;
  bottom: 0;
  left: 0;
  right: 0;
  z-index: -1;
  border-radius: 15px;
  border: 3px, solid, rgb(64, 64, 64);
  transition: top, left, right, bottom, 100ms, ease-in-out;
}
```

```
.button:hover::before, .button:focus:before {
  top: calc(2px * -2);
  bottom: calc(2px * -2);
  left: calc(2px * -2);
  right: calc(2px * -2);
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<div class="signal" id="red"></div>
```

```
<div class="signal" id="yellow"></div>
```

```
<div class="signal" id="green"></div>
```

```
</div>
```

```
<div class="button" id="button">Random Signal</div>
```

```
<div class="buttons">
```

```
<button class="button" id="red-button">Red</button>
```

```
<button class="button" id="yellow-button">Yellow</button>
```

```
<button class="button" id="green-button">Green</button>
```

```
</div>
```

```

<script>
document.getElementById("red-button").addEventListener("click", function () {
    document.getElementById("red").style.opacity = 1;
    document.getElementById("red").style.boxShadow = "0px 0px 50px rgba(200, 0, 0, 0.9)";
    document.getElementById("yellow").style.opacity = 0.3;
    document.getElementById("yellow").style.boxShadow = "none";
    document.getElementById("green").style.opacity = 0.3;
    document.getElementById("green").style.boxShadow = "none";
});
document.getElementById("yellow-button").addEventListener("click", function () {
    document.getElementById("yellow").style.opacity = 1;
    document.getElementById("yellow").style.boxShadow = "0px 0px 50px rgba(200, 200, 0, 0.9)";
    document.getElementById("red").style.opacity = 0.3;
    document.getElementById("red").style.boxShadow = "none";
    document.getElementById("green").style.opacity = 0.3;
    document.getElementById("green").style.boxShadow = "none";
});
document.getElementById("green-button").addEventListener("click", function () {
    document.getElementById("green").style.opacity = 1;
    document.getElementById("green").style.boxShadow = "0px 0px 50px rgba(0, 200, 0, 0.9)";
    document.getElementById("red").style.opacity = 0.3;
    document.getElementById("red").style.boxShadow = "none";
    document.getElementById("yellow").style.opacity = 0.3;
    document.getElementById("yellow").style.boxShadow = "none";
});
document.getElementById("button").addEventListener("click", function () {
    let random = Math.floor(Math.random() * 3) + 1;
    switch (random) {
        case 1:
            document.getElementById("red").style.opacity = 1;
            document.getElementById("red").style.boxShadow = "0px 0px 50px rgba(200, 0, 0, 0.9)";
            document.getElementById("yellow").style.opacity = 0.3;
            document.getElementById("yellow").style.boxShadow = "none";
            document.getElementById("green").style.opacity = 0.3;
            document.getElementById("green").style.boxShadow = "none";
            break;
        case 2:
            document.getElementById("yellow").style.opacity = 1;
            document.getElementById("yellow").style.boxShadow = "0px 0px 50px rgba(200, 200, 0, 0.9)";
            document.getElementById("red").style.opacity = 0.3;
            document.getElementById("red").style.boxShadow = "none";
            document.getElementById("green").style.opacity = 0.3;
            document.getElementById("green").style.boxShadow = "none";
            break;
        case 3:
            document.getElementById("green").style.opacity = 1;
            document.getElementById("green").style.boxShadow = "0px 0px 50px rgba(0, 200, 0, 0.9)";
            document.getElementById("red").style.opacity = 0.3;
            document.getElementById("red").style.boxShadow = "none";
            document.getElementById("yellow").style.opacity = 0.3;
            document.getElementById("yellow").style.boxShadow = "none";
            break;
    }
});
</script>
</body>
</html>

```

## OUTPUT



Random Signal

Red

Yellow

Green

## QUESTION 2

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 2</title>
  <style>
    *{
      margin: 0;
      padding: 0;
    }

    body{
      background-color: bisque;
      height: 100vh;
      width: 100vw;
      display: flex;
      justify-content: center;
      align-items: center;
    }

    .container {
      font-family: 'Segoe UI';
      color: whitesmoke;
      height: auto;
      padding: 10px;
      background-color: black;
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
      border-radius: 25px;
    }

    #text-area {
      font-size: 20px;
      height: 300px;
      width: 700px;
      text-align: center;
      background: radial-gradient(circle at bottom, #FFA700, #FF8100, #FF6700, #FF4D00, #FF0000);
      display: flex;
      justify-content: center;
      align-items: center;
      border-radius: 15px;
    }

    #button {
      font-size: 25px;
      display: flex;
      justify-content: center;
      align-items: center;
      margin-top: 10px;
      background-color: #B07357;
      height: 200px;
      width: 700px;
```

```

    border-radius: 15px;
  }

  #button:hover {
    cursor: pointer;
  }
</style>
</head>

<body>
  <div class="container">
    <div id="text-area">Trial text</div>
    <div id="button">Random</div>
  </div>

  <script>
    const quotes = [
      "The only way to do great work is to love what you do.",
      "Success is not final, failure is not fatal: it is the courage to continue that counts.",
      "Believe you can and you're halfway there.",
      "Opportunities don't happen. You create them.",
      "Don't watch the clock; do what it does. Keep going.",
      "Difficulties in life are intended to make us better, not bitter.",
      "Your time is limited, so don't waste it living someone else's life.",
      "Success usually comes to those who are too busy to be looking for it.",
      "Do what you can, with what you have, where you are.",
      "Act as if what you do makes a difference. It does.",
      "The best way to predict the future is to create it.",
      "It always seems impossible until it's done.",
      "Courage is not the absence of fear but rather the judgment that something else is more important than
fear.",
      "The harder the battle, the sweeter the victory.",
      "Start where you are. Use what you have. Do what you can.",
      "Push yourself, because no one else is going to do it for you.",
      "Don't be pushed by your problems. Be led by your dreams.",
      "I am not a product of my circumstances. I am a product of my decisions.",
      "Everything you've ever wanted is on the other side of fear.",
      "Little by little, one travels far."
    ];

    document.getElementById("button").addEventListener("click", function () {
      const quote = Math.floor(Math.random() * 20);
      document.getElementById("text-area").innerText = quotes[quote]

    });
  </script>
</body>
</html>

```

## OUTPUT

Act as if what you do makes a difference. It does.

Random



### QUESTION 3

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 3</title>
  <style>
    *{
      margin: 0;
      padding: 0;
    }

    body{
      background-color: bisque;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      width: 100vw;
    }

    #header {
      margin-bottom: 15px;
      font-size: 30px;
    }

    .container {
      font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
      background-color: rgb(87, 135, 163);
      height: auto;
      border-radius: 15px;
    }

    .head {
      height: 200px;
      width: 500px;
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
      background-color: rgb(174, 198, 214);
      padding: 15px;
      border-top-left-radius: 15px;
      border-top-right-radius: 15px;
      border-bottom-right-radius: 15px;
      border-bottom-left-radius: 15px;
    }

    #text-area {
      height: 50px;
      width: 100%;
      background-color: rgb(238, 200, 168);
      border: none;
      padding: 5px;
      border-radius: 10px;
    }
```

```

    border: solid rgb(136, 191, 241);
}

#button {
    display: flex;
    justify-content: center;
    align-items: center;
    margin-top: 15px;
    height: 50px;
    width: 40%;
    background-color: rgb(174, 212, 201);
    border-radius: 10px;
    border: solid rgb(136, 191, 241);
}

#button:hover {
    cursor: pointer;
}

.element {
    margin: 10px;
    background-color: aqua;
    height: 30px;
    font-size: 18px;
    display: flex;
    align-items: center;
    padding: 10px;
    border-radius: 10px;
}

.element-button {
    margin-left: auto;
    height: 100%;
    width: 5%;
    display: flex;
    justify-content: center;
    align-items: center;
    border-radius: 5px;
    color: whitesmoke;
    cursor: pointer;
    background-color: rgb(218, 136, 136);
}

.completed {
    text-decoration: line-through;
    color: gray;
}
</style>
</head>

<body>
  <div class="container">
    <div class="head">
      <div id="header">To-Do List</div>
      <input id="text-area" placeholder="Add task..."></input>
      <div id="button">Add to List</div>
    </div>

```

```
<div id="list-element"></div>
<script>
  document.getElementById("button").addEventListener("click", addTask);
  document.getElementById("text-area").addEventListener("keydown", function (event) {
    if (event.key === "Enter") {
      event.preventDefault();
      addTask();
    }
  });
  function addTask() {
    let taskText = document.getElementById("text-area").value.trim();

    if (taskText === "") {
      alert("Task cannot be empty!");
      return;
    }

    let newElement = document.createElement("div");
    newElement.className = "element";
    newElement.innerHTML = `${taskText} <div class="element-button"></img></div>`;

    newElement.addEventListener("click", function () {
      newElement.classList.toggle("completed");
    });

    newElement.querySelector(".element-button").addEventListener("click", function () {
      event.stopPropagation();
      newElement.remove();
    });

    document.getElementById("list-element").appendChild(newElement);

    document.getElementById("text-area").value = "";
  }
</script>
</div>
</body>
</html>
```

## OUTPUT

### To-Do List

Add to List

do the laundry

×

complete assignment

×

## QUESTION 4

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 4</title>
  <style>
    *{
      padding: 0;
      margin: 0;
    }

    body {
      font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
Verdana, sans-serif;
      background-color: #FFDCCC;
      height: 100vh;
      width: 100vw;
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
    }

    canvas {
      background-color: white;
      border: 3px solid black;
      margin-top: 20px;
    }

    button {
      margin: 5px;
      padding: 10px;
      font-size: 16px;
      border: none;
      outline: none;
      background-color: #B7B1F2;
      border-radius: 5px;
      cursor: pointer;
    }
  </style>
</head>

<body>

  <h1>Draw Shapes on Canvas</h1>
  <div class="options">
    <button onclick="drawRectangle()">Rectangle</button>
    <button onclick="drawCircle()">Circle</button>
    <button onclick="drawTriangle()">Triangle</button>
    <button onclick="clearCanvas()">Clear</button>
  </div>
  <canvas id="myCanvas" height="500px" width="500px"></canvas>
```

```
<script>
  const canvas = document.getElementById('myCanvas');
  const ctx = canvas.getContext('2d');

  function getRandomInt(min, max) {
    return Math.floor(Math.random() * (max - min + 1)) + min;
  }

  function drawRectangle() {
    let x = getRandomInt(0, canvas.width - 150);
    let y = getRandomInt(0, canvas.height - 100);
    ctx.fillStyle = 'blue';
    ctx.fillRect(x, y, 150, 100);
  }

  function drawCircle() {
    let radius = 50;
    let x = getRandomInt(radius, canvas.width - radius);
    let y = getRandomInt(radius, canvas.height - radius);
    ctx.fillStyle = 'red';
    ctx.beginPath();
    ctx.arc(x, y, radius, 0, Math.PI * 2);
    ctx.fill();
  }

  function drawTriangle() {
    let x1 = getRandomInt(50, canvas.width - 50);
    let y1 = getRandomInt(50, canvas.height - 50);
    let x2 = x1 - 50;
    let y2 = y1 + 100;
    let x3 = x1 + 50;
    let y3 = y1 + 100;

    ctx.fillStyle = 'green';
    ctx.beginPath();
    ctx.moveTo(x1, y1);
    ctx.lineTo(x2, y2);
    ctx.lineTo(x3, y3);
    ctx.closePath();
    ctx.fill();
  }

  function clearCanvas() {
    ctx.clearRect(0, 0, canvas.width, canvas.height);
  }
</script>

</body>
</html>
```

## OUTPUT

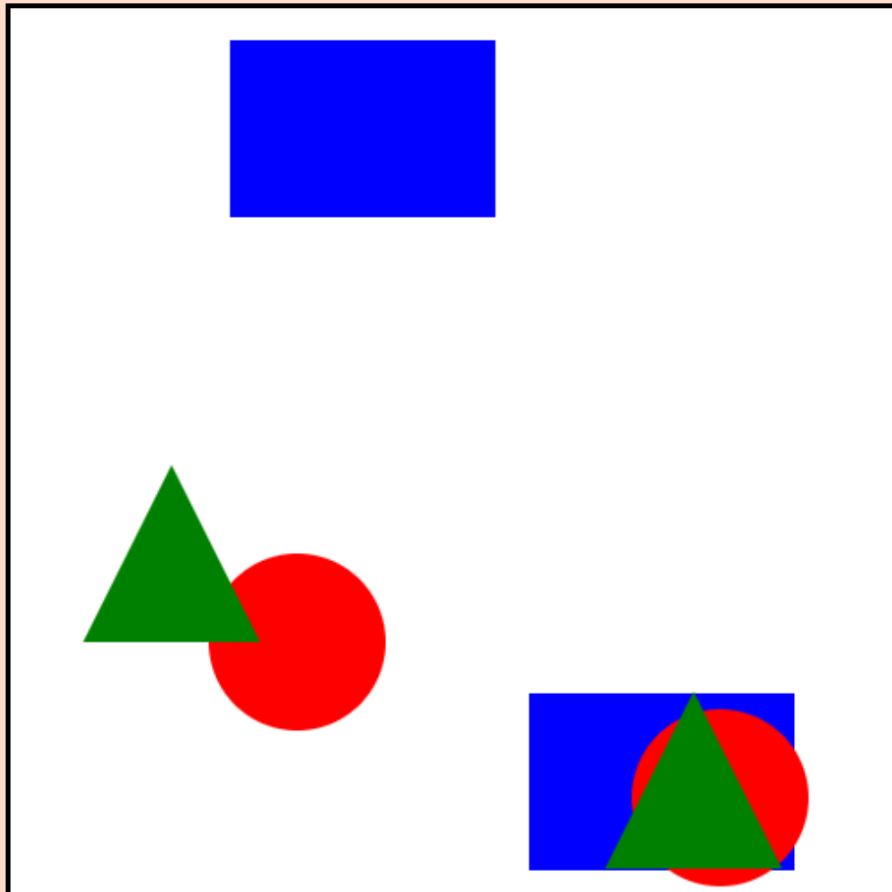
# Draw Shapes on Canvas

Rectangle

Circle

Triangle

Clear



## QUESTION 5

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 5</title>
  <style>
    *{
      margin: 0;
      padding: 0;
    }

    body{
      background-color: bisque;
      height: 100vh;
      width: 100vw;
      display: flex;
      justify-content: center;
      align-items: center;
    }

    .container{
      font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
      color: rgb(255, 255, 255);
      height: auto;
      width: 500px;
      background: #3D8D7A;
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
      border-radius: 60px 5px;
      padding: 15px;
      box-shadow: 0px 0px 15px #A3D1C6;
    }

    #head{
      font-size: 20px;
      margin-bottom: 15px;
    }

    #button{
      margin-top: 20px;
      height: 30px;
      width: 100px;
      display: flex;
      justify-content: center;
      align-items: center;
      background-color: #FBFFE4;
      outline: none;
      border: none;
      cursor: pointer;
      color: black;
      border-radius: 10px;
    }
```



```
#inp {
  font-size: 20px;
  padding: 5px;
  height: 30px;
  width: 50px;
  background-color: antiquewhite;
  border: none;
  border: solid rgb(53, 52, 52);
  border-radius: 10px;
}

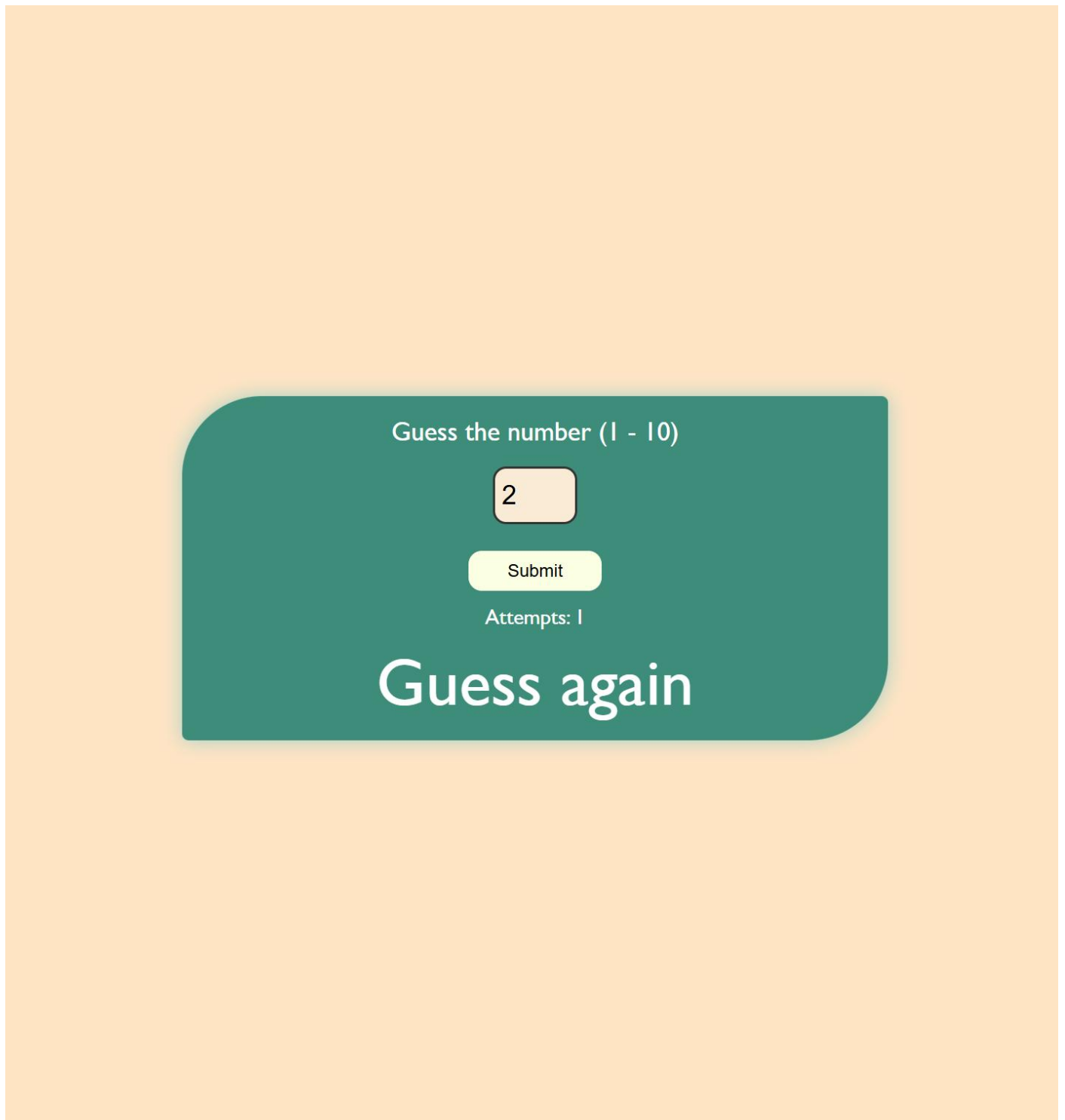
#attempts {
  margin: 10px;
}

#text-area {
  font-size: 50px;
}
</style>
</head>

<body>
  <div class="container">
    <div id="head">Guess the number (1 - 10)</div>
    <input type="number" id="inp">
    <button id="button">Submit</button>
    <div id="attempts">Attempts: 0</div>
    <div id="text-area">.....</div>
  </div>

  <script>
    const number = Math.floor(Math.random() * 10) + 1;
    let count = 0;
    document.getElementById("button").addEventListener("click", function () {
      let input = document.getElementById("inp").value;
      if (input == "") {
        document.getElementById("text-area").innerText = "Enter a number"
      }
      else if (number == parseInt(input)) {
        document.getElementById("text-area").innerText = "Got it right!!!!"
      }
      else {
        count = count + 1;
        document.getElementById("text-area").innerText = "Guess again"
        document.getElementById("attempts").innerText = "Attempts: " + count;
      }
    });
  </script>
</body>
</html>
```

## OUTPUT



## QUESTION 6

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 6</title>
  <style>
    *{
      margin: 0;
      padding: 0;
    }

    body {
      font-family: 'Segoe UI';
      background-color: bisque;
      height: 100vh;
      width: 100vw;
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
    }

    .head {
      margin-bottom: 25px;
      font-size: 20px;
      font-weight: 500;
    }

    .container {
      color: whitesmoke;
      height: auto;
      padding: 10px;
      background-color: black;
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
      border-radius: 25px;
    }

    #main-area {
      font-size: 70px;
      height: 300px;
      width: 200px;
      text-align: center;
      display: flex;
      justify-content: center;
      align-items: center;
      border-radius: 15px;
    }

    #button {
      font-size: 25px;
      display: flex;
```

```

    justify-content: center;
    align-items: center;
    margin-top: 10px;
    background-color: #B07357;
    height: 100px;
    width: 200px;
    border-radius: 15px;
}

#button:hover {
    cursor: pointer;
}
</style>
</head>

<body>
  <div class="head">How are you feeling today?</div>
  <div class="container">
    <div id="main-area">Trial emoji</div>
    <div id="button">Emoji</div>
  </div>

  <script>
    const emojis = [
      "😄", "😁", "😂", "😃", "😅", "😆",
      "😇", "😈", "😉", "😊", "😋", "😌",
      "😍", "😎", "😏", "😐", "😑", "😒",
      "😓", "😔", "😕", "😖", "😗", "😘",
      "😙", "😚", "🔥", "🌈", "💀", "🚀"
    ];

    document.getElementById("button").addEventListener("click", function () {
      const emoji = Math.floor(Math.random() * 20);
      document.getElementById("main-area").innerText = emojis[emoji]
    });
  </script>
</body>
</html>
```

## OUTPUT

How are you feeling today?



Emoji