



Lab Practice -2 [404184C] : ELECTIVE-III(C) - JavaScript

ACADEMIC YEAR: 2024-25

| | | | | | | | |
|---------|-------|--------|-----|-------|------|----------|---------|
| CLASS | : BE | DIV | : 6 | Batch | : P6 | DATE | : / /24 |
| Roll No | 42130 | ABC ID | : | | | SEMESTER | : I |

Experiment No.: 9

Code:

```
1. <!DOCTYPE html>
2. <html>
3.
4. <head>
5.     <meta charset="UTF-8">
6.     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7.     <title>Area</title>
8.     <style>
9.         .calculator-box {
10.             border: 1px solid #000;
11.             padding: 20px;
12.             margin: 20px auto;
13.             border-radius: 10px;
14.             max-width: 300px;
15.             text-align: left;
16.         }
17.     </style>
18. </head>
19.
20. <body style="text-align: center;">
21.     <h1>Area of different shapes</h1>
22.     <div class="calculator-box">
23.         <h2>Area of Triangle</h2>
24.         <label for="side1">Enter Side 1: </label>
25.         <input type="number" id="side1"><br><br>
26.         <label for="side2">Enter Side 2: </label>
27.         <input type="number" id="side2"><br><br>
28.         <label for="side3">Enter Side 3: </label>
29.         <input type="number" id="side3"><br><br>
30.         <button id="calculateTriangleButton" onclick="areaofTriangle()">Calculate Area</button>
31.         <p id="triangleResult"></p>
32.     </div>
33.     <div class="calculator-box">
34.         <h2>Area of Rectangle</h2>
35.         <label for="length">Enter the Length: </label>
36.         <input type="number" id="len"><br>
37.
38.         <br>
39.         <label for="breadth">Enter the Breadth: </label>
40.         <input type="number" id="bre"><br>
41.         <br>
```

```

42.     <button id="calculateButton" onclick="areaofRectangle()">Calculate Area</button>
43.     <p id="result"></p>
44. </div>
45. <div class="calculator-box">
46.     <h2>Area of Circle</h2>
47.     <label for="length">Enter the Radius: </label>
48.     <input type="number" id="rad"></br>
49.     <br>
50.     <button id="calculateButton" onclick="areaofCircle()">Calculate Area</button>
51.     <p id="result2"></p>
52. </div>
53. <script src="scripts.js"></script>
54. </body>
55.
56. </html>

```

Index.js

```

function areaofRectangle() {
    const length = parseFloat(document.getElementById("len").value);
    const breadth = parseFloat(document.getElementById("bre").value);
    if (isNaN(length) || isNaN(breadth) || breadth <= 0 || length <= 0) {
        alert("Please enter correct values.");
    } else {
        const area = length * breadth;
        document.getElementById("result").textContent =
            "The area of the rectangle is: " + area;
    }
}

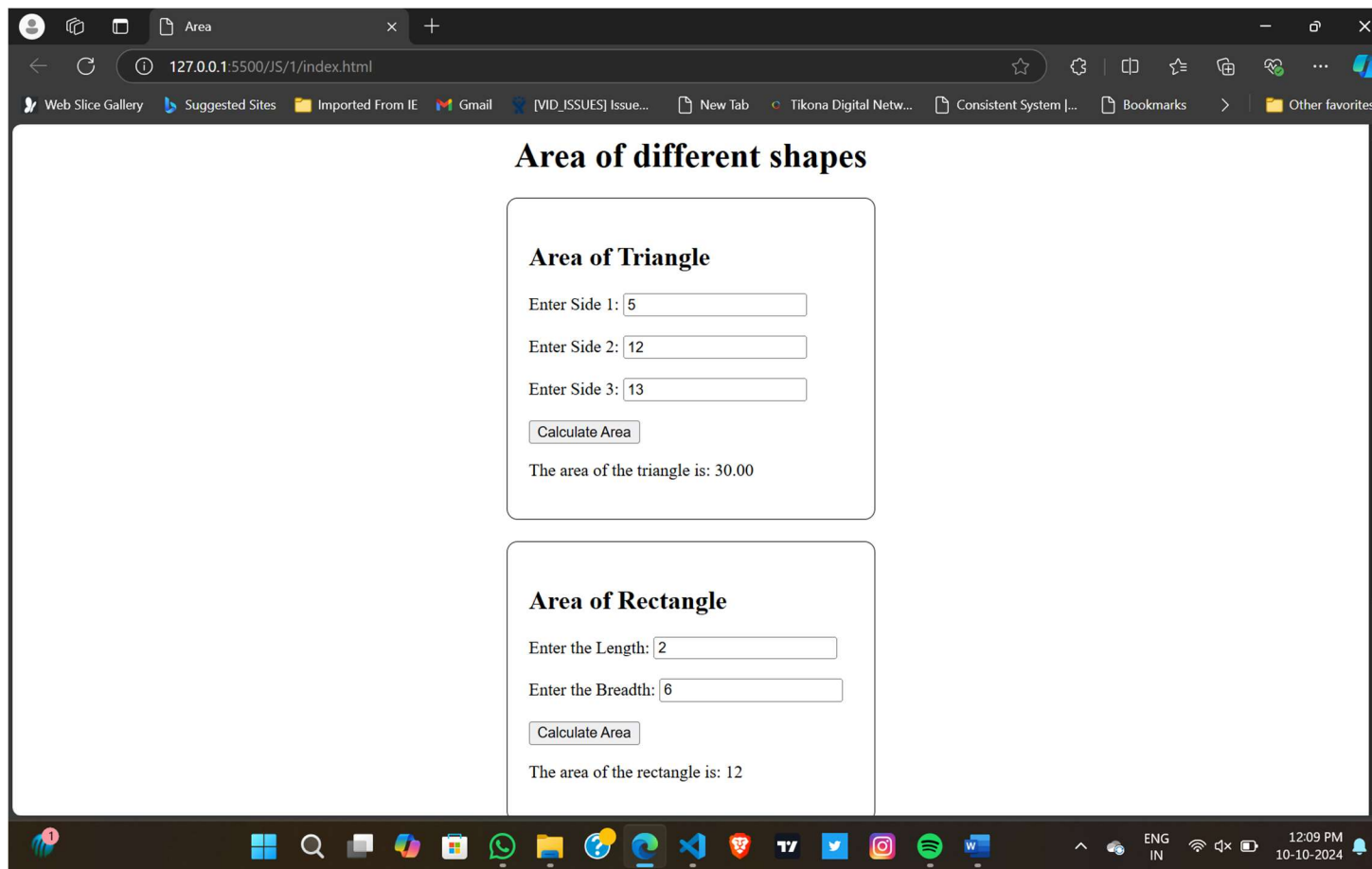
function areaofCircle() {
    const radius = parseInt(document.getElementById("rad").value);
    if (isNaN(radius) || radius <= 0) {
        alert("Please enter valid Radius");
    } else {
        const areaCircle = 3.14 * radius * radius;
        document.getElementById("result2").textContent =
            "The area of Circle is: " + areaCircle;
    }
}

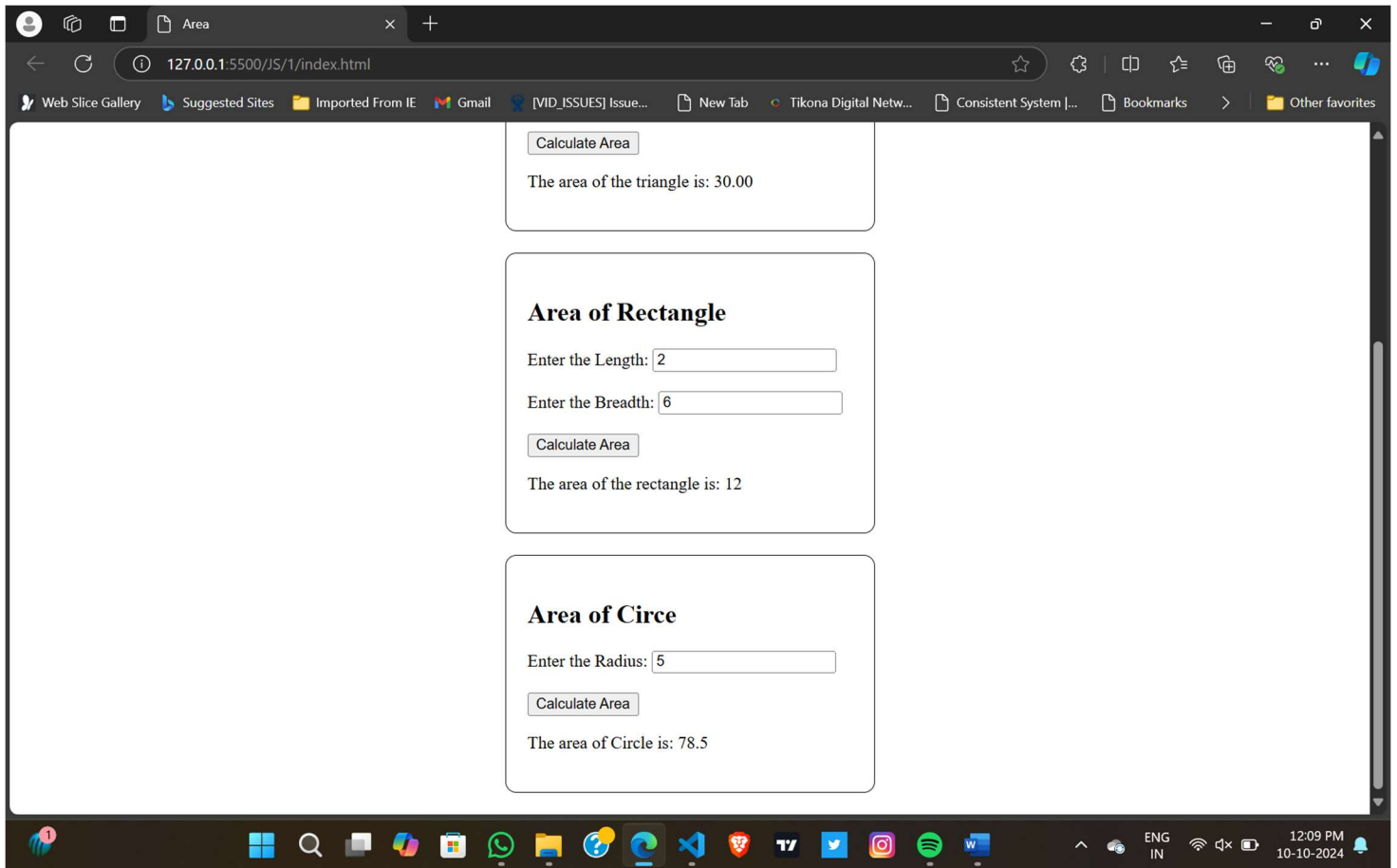
function areaofTriangle() {
    const s1 = parseInt(document.getElementById("side1").value);
    const s2 = parseInt(document.getElementById("side2").value);
    const s3 = parseInt(document.getElementById("side3").value);
    if (isNaN(s1) || isNaN(s2) || isNaN(s3)) {
        alert("All fields are required.");
    }
    else if (s1 <= 0 || s2 <= 0 || s3 <= 0 || (s1 + s2) <= s3 || s2 + s3 <= s1 || s3 + s1 <= s2) {
        alert("All fields must be valid.");
    } else {
        const s = (s1 + s2 + s3) / 2;
        const area = Math.sqrt(s * (s - s1) * (s - s2) * (s - s3));
        document.getElementById("triangleResult").textContent =
            "The area of the triangle is: " + area.toFixed(2);
    }
}

```

}
}

Output:





Date:

Course Teacher Sign