

### Area Calculator

**1. For the area of Square:**

Enter Side:

**2. For the area of Circle:**

Enter Radius:

**3. For the area of Rectangle:**

Enter Value 1:

Enter Value 2:

**4. For the area of Triangle:**

Enter Side 1:

Enter Side 2:

Enter Side 3:

### Area Calculator

**1. For the area of Square:**

Enter Side: 4

Area : 16

**2. For the area of Circle:**

Enter Radius: 5

Area : 78.53981633974483

**3. For the area of Rectangle:**

Enter Value 1: 6

Enter Value 2: 7

Area : 42

**4. For the area of Triangle:**

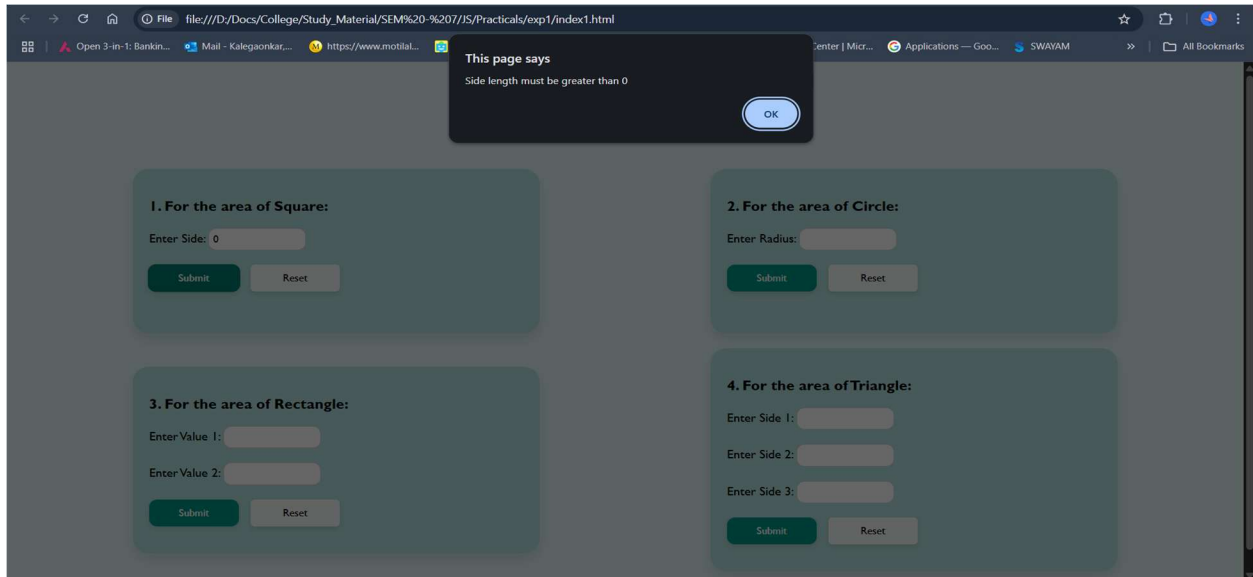
Enter Side 1: 5

Enter Side 2: 6

Enter Side 3: 7

Area : 175.7498221905217

**JavaScript EXP\_1**  
**Roll No: 42427 Q6 BE 6**  
**Aditi Kalegaonkar**



Code : -

HTML, CSS :-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <style>
    body {
      background-color: #e0f7f4;
      display: grid;
      grid-template-columns: repeat(2, 1fr);
      grid-template-rows: repeat(2, auto);
      direction: ltr;
      align-items: center;
      justify-items: center;
    }
  </style>
</head>
<body>
  <div>1. For the area of Square:</div>
  <div>Enter Side: <input type="text" value="0"></div>
  <div><button>Submit</button> <button>Reset</button></div>
  <div>2. For the area of Circle:</div>
  <div>Enter Radius: <input type="text"></div>
  <div><button>Submit</button> <button>Reset</button></div>
  <div>3. For the area of Rectangle:</div>
  <div>Enter Value 1: <input type="text"></div>
  <div>Enter Value 2: <input type="text"></div>
  <div><button>Submit</button> <button>Reset</button></div>
  <div>4. For the area of Triangle:</div>
  <div>Enter Side 1: <input type="text"></div>
  <div>Enter Side 2: <input type="text"></div>
  <div>Enter Side 3: <input type="text"></div>
  <div><button>Submit</button> <button>Reset</button></div>
</body>
</html>
```

```
        gap: 20px;
        margin: 0;
        padding: 40px 60px;
        font-family: 'Gill Sans', 'Gill Sans MT', Calibri,
'Trebuchet MS', sans-serif;
        min-height: 100vh;
        box-sizing: border-box;
    }

    h1 {
        grid-column: 1 / 3;
        align-self: start;
        justify-self: center;
        margin-bottom: 10px;
        color: #2c3e50;
        font-size: 2.5rem;
        text-align: center;
    }

    div {
        background-color: #b2dfdb;
        padding: 20px;
        min-height: 220px;
        width: 90%;
        max-width: 500px;
        border-radius: 20px;
        box-shadow: 0 8px 16px rgba(0, 0, 0, 0.1);
        font-family: 'Gill Sans', 'Gill Sans MT', Calibri,
'Trebuchet MS', sans-serif;
```

```
        box-sizing: border-box;
    }

    button {
        background-color: #009688;
        color: white;
        width: 110px;
        height: 36px;
        border-radius: 10px;
        border: none;
        cursor: pointer;
        font-family: 'Gill Sans', 'Gill Sans MT', Calibri,
'Trebuchet MS', sans-serif;
        transition: background-color 0.3s ease, transform 0.2s
ease;

        box-shadow: 0 3px 6px rgba(0, 0, 0, 0.1);
        margin-right: 10px;
    }

    button:hover {
        background-color: #00796b;
        transform: scale(1.03);
    }

    #R1, #R2, #R3, #R4 {
        color: black;
        background-color: #f5fafa;
        padding: 5px;
        border-radius: 5px;
```

```
    }

    .ipcontainer {
        border-radius: 10px;
        height: 30px;
        width: 120px;
        max-width: 100%;
        border: 1px solid #ccc;
        padding: 5px;
        background-color: #ffffff;
        font-family: 'Gill Sans', 'Gill Sans MT', Calibri,
'Trebuchet MS', sans-serif;
        box-sizing: border-box;
    }
</style>
<title>Area Calculator</title>
</head>
<body>
    <h1>Area Calculator</h1>
    <div>
        <h3>1. For the area of Square: </h3>
        <label>Enter Side: </label>
        <input type="text" id="side" class="ipcontainer"/>
        <br />
        <br />
        <button onclick="areaSq()">Submit</button>
        <button onclick="Reset()" id="R1">Reset</button>
        <p id="result"></p>
    </div>
```

```
<div>
  <h3>2. For the area of Circle: </h3>
  <label>Enter Radius: </label>
  <input type="text" id="rad" class="ipcontainer" />
  <br />
  <br />
  <button onclick="areaC()">Submit</button>
  <button onclick="Reset()" id="R2">Reset</button>
  <p id="result1"></p>
</div>
```

```
<div>
  <h3>3. For the area of Rectangle: </h3>
  <label>Enter Value 1: </label>
  <input type="text" id="len" class="ipcontainer"/>
  <br />
  <br />
  <label>Enter Value 2: </label>
  <input type="text" id="bre" class="ipcontainer"/>
  <br />
  <br />
  <button onclick="areaRect()">Submit</button>
  <button onclick="Reset()" id="R3">Reset</button>
  <p id="result2"></p>
</div>
```

```
<div>
```

```
<h3>4. For the area of Triangle: </h3>
<label>Enter Side 1: </label>
<input type="text" id="s1" class="ipcontainer"/>
<br />
<br />
<label>Enter Side 2: </label>
<input type="text" id="s2" class="ipcontainer"/>
<br />
<br />
<label>Enter Side 3: </label>
<input type="text" id="s3" class="ipcontainer"/>
<br />
<br />
<button onclick="areaTri()">Submit</button>
<button onclick="Reset()" id="R4">Reset</button>
<p id="result3"></p>
</div>
<script src="15_7_25.js"></script>
</body>
</html>
```

#### JavaScript:-

```
// Calculate area of Triangle, Rectangle, Circle and Square
// DOM fundamentals

function areaSq() {
    const s = Number(document.getElementById("side").value);
    if (s <= 0) {
```

```
        alert("Side length must be greater than 0");
        return;
    }
    const ans = s * s;
    document.getElementById("result").innerHTML = "Area : " + ans;
    document.getElementById("result").style.color = "black";
}

function areaC() {
    const r = Number(document.getElementById("rad").value);
    if (r <= 0) {
        alert("Radius must be greater than 0");
        return;
    }
    const ans = Math.PI * r * r;
    document.getElementById("result1").innerHTML = "Area : " + ans;
    document.getElementById("result1").style.color = "black";
}

function areaRect() {
    const v1 = Number(document.getElementById("len").value);
    const v2 = Number(document.getElementById("bre").value);
    if (v1 <= 0 || v2 <= 0) {
        alert("Length and Breadth must be greater than 0");
        return;
    }
    const ans = v1 * v2;
    document.getElementById("result2").innerHTML = "Area : " + ans;
    document.getElementById("result2").style.color = "black";
}
```



```
}
```

```
function areaTri() {  
    const v1 = Number(document.getElementById("s1").value);  
    const v2 = Number(document.getElementById("s2").value);  
    const v3 = Number(document.getElementById("s3").value);  
    if (v1 <= 0 || v2 <= 0 || v3 <= 0) {  
        alert("All sides must be greater than 0");  
        return;  
    }  
    const semi = (v1 + v2 + v3) / 2;  
    const ans = Math.sqrt(semi * (semi - v1) * (semi - v2) * (semi -  
v3));  
    document.getElementById("result3").innerHTML = "Area : " + ans;  
    document.getElementById("result3").style.color = "black";  
}
```

```
function Reset(){  
    if(event.target.id == "R1"){  
        document.getElementById("side").value = "";  
    }  
    else if(event.target.id == "R2"){  
        document.getElementById("rad").value = "";  
    }  
    else if(event.target.id == "R3"){  
        document.getElementById("len").value = "";  
        document.getElementById("bre").value = "";  
    }  
    else if(event.target.id == "R4"){
```

**JavaScript EXP\_1**  
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```
        document.getElementById("v1").value = "";  
        document.getElementById("v2").value = "";  
        document.getElementById("v3").value = "";  
    }  
}
```