

# Experiment No: 01

Name: Prathmesh Bonde

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Class: BE5 P5

Subject: JavaScript

## Problem statement:

Write a JavaScript program to calculate

1. Area of Triangle
2. Area of rectangle
3. Area of circle

## Software:

VS Code, Browser

## HTML Code:

```
<!--  
Name: Prathmesh Bonde  
Roll no : 42115 -->  
  
<!DOCTYPE html>  
<html Lang="en">  
  
<head>  
  <title> Area of different shapes</title>  
  <script src="./Expt1.js"></script>  
</head>  
  
<body style="text-align: center">  
  <h1>Area of different shapes</h1>  
  <br /><br />  
  <h3>Circle</h3>  
  <label for="radius"> Enter the value of radius: </label>  
  <input type="number" id="radius">  
  <br /><br />  
  <button onclick="Areaofcircle()"> Calculate Area </button>  
  <p>  
    <b> Area of circle: </b>  
    <span id="displayc"> </span>  
  </p>  
  <h3>Rectangle </h3>  
  <label for="length"> Enter length: </label>  
  <input type="number" id="length">
```

```

<br />
<label for="breadth"> Enter breadth: </label>
<input type="number" id="breadth">
<br /><br />
<button onclick="AreaofRectangle()"> Calculate Area </button>
<p>
    <b> Area of rectangle: </b>
    <span id="displayr"> </span>
</p>

<h3>Triangle </h3>
<label for="side1"> Enter side1: </label>
<input type="number" id="side1">
<br />
<label for="side2"> Enter side2: </label>
<input type="number" id="side2">
<br />
<label for="side3"> Enter side3: </label>
<input type="number" id="side3">
<br /><br />
<button onclick="AreaofTriangle()"> Calculate Area </button>
<p>
    <b> Area of Triangle: </b>
    <span id="displayt"> </span>
</p>
</body>
</html>

```

## Javascript Code:

```

<!--
Name: Prathmesh Bonde
Roll no : 42115 -->

function Areaofcircle() {
    var rad = parseInt(document.getElementById("radius").value);
    var area = Math.PI*rad*rad;
    document.getElementById("displayc").innerHTML = area;
}

function AreaofRectangle() {
    var len = parseInt(document.getElementById("length").value);
    var brd = parseInt(document.getElementById("breadth").value);
    var area = len*brd;
    document.getElementById("displayr").innerHTML = area;
}

function AreaofTriangle() {
    var s1 = parseInt(document.getElementById("side1").value);
    var s2 = parseInt(document.getElementById("side2").value);

```

```
var s3 = parseInt(document.getElementById("side3").value);  
var s = (s1+s2+s3)/2;  
var area = Math.sqrt(s*(s-s1)*(s-s2)*(s-s3));  
document.getElementById("displayt").innerHTML = area;  
}
```

## Output:

The screenshot shows a web browser window with the title "Area of different shapes". The browser's address bar shows the file path "D:/Downloads/SEM7/JS\_Expt/Expt\_1/Expt1.html". The page content is as follows:

**Area of different shapes**

**Circle**  
Enter the value of radius:   
  
Area of circle: 78.53981633974483

**Rectangle**  
Enter length:   
Enter breadth:   
  
Area of rectangle: 40

**Triangle**  
Enter side1:   
Enter side2:   
Enter side3:   
  
Area of Triangle: 6

The browser's taskbar at the bottom shows the system clock as 9:27 PM on 02-Nov-22, with a weather widget indicating 19°C and Clear.