Name : Vedant Kulkarni	**Roll No. : 42438**
Division : BE 8	**Batch : Q8**
Subject : Javascript	**Date :**

Experiment 1 : Write a javascript program to calculate area of triangle, rectangle and circle

CODE :

1. HTML(index.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>Area Calculator</title>
</head>
<body>
   <div >
      <h3>Area of Triangle</h3><br>
      <label for="base">Enter base of triangle</label>
      <input type="number" id="b" placeholder="Enter positive value of base of triangle in m"><br>
      <label for="height">Enter height of triangle</label>
      <input type="number" id="h" placeholder="Enter positive value of height of triangle in m"><br>
      <button type="button" onclick="triangle()">
         Calculate Area
      </button><br><br>
   </div>
   <div>
      <h3>Area of Rectangle</h3><br>
      <label for="length">Enter length of rectangle</label>
      <input type="number" id="l" placeholder="Enter positive value of length "><br>
      <label for="height">Enter height of triangle</label>
      <input type="number" id="w" placeholder="Enter positive value of breadth"><br>
      <button type="button" onclick="rectangle()">
         Calculate Area
      </button><br><br>
   </div>

   <div >
      <h3>Area of Circle</h3><br>
      <label for="radius">Enter Radius</label>
      <input type="number" id="r" placeholder="Enter positive value of radius "><br>
      <button type="button" onclick="Circle()">
         Calculate Area
      </button><br><br>
   </div>
   <script src="calculate.js"></script>
</body>
</html>
```

2. JS (calculate.js)

```
function triangle()
{
   var b= parseInt(document.getElementById("b").value)
   var h= parseInt(document.getElementById("h").value)
   var area = 0.5 * b * h;
   if(b<0 || h<0)
   {
      alert("Enter proper dimensions to calculate area");
   }
   else
   {
      alert("Area of Triangle is "+area);
   }
}

function rectangle()
{
   var len= parseInt(document.getElementById("l").value)
   var bre= parseInt(document.getElementById("w").value)
   var area = bre * len;
   if(bre<0 || len<0)
   {
      alert("Enter proper dimensions to calculate area");
   }
   else
   {
      alert("Area of Rectangle is "+area);
   }
}

function Circle()
{
   var radius= parseInt(document.getElementById("r").value)

   var area = 3.142 * radius * radius;
   if(radius<0 )
   {
      alert("Enter proper dimensions to calculate area");
   }
   else
   {
      alert("Area of Circle is "+area);
   }
}
```