

Experiment no 01

a)Area of Triangle

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>
        JavaScript Function to find
        the area of a triangle
    </title>
    <style>
        *{
            text-align:center;
        }
        body {
            font-family: Arial, sans-serif;
            background: #f9f9f9;
            text-align: center;
            padding: 30px;
        }

        h4 {
            color: #333;
            margin-bottom: 15px;
        }

        label {
            display: block;
            margin: 10px 0 5px;
            font-weight: bold;
        }

        input {
            padding: 6px;
            width: 200px;
            border: 1px solid #ccc;
            border-radius: 5px;
            margin-bottom: 10px;
        }

        button {
            margin-top: 10px;
            background: #007BFF;
            color: white;
            border: none;
        }
    </style>

```

```

padding: 8px 15px;
border-radius: 5px;
cursor: pointer;
}

button:hover {
background: #0056b3;
}

p {
margin-top: 15px;
font-size: 16px;
}

#display {
color: #007BFF;
font-weight: bold;
}

</style>
</head>
<body>

<h4>JavaScript function to find the area of triangle</h4>
<label for="side1">Enter the value of side 1:</label>
<input type="number" placeholder="Enter value of side 1" id="side1">
<br>
<label for="side2">Enter the value of side 2:</label>
<input type="number" placeholder="Enter value of side 1" id="side2">
<br>
<label for="side3">Enter the value of side 3:</label>
<input type="number" placeholder="Enter value of side 1" id="side3">
<br>
<button onclick="Area()">Calculate</button>
<p>Area of Triangle:<span id="display"></span></p>

<script>
function Area(){
var side1=parseInt(document.getElementById("side1").value);
var side2=parseInt(document.getElementById("side2").value);
var side3=parseInt(document.getElementById("side3").value);
var s=(side1+side2+side3)/2;
var area=Math.sqrt(s*((s-side1)*(s-side2)*(s-side3)));

document.getElementById("display").innerHTML=area;

}
</script>
</body>
</html>

```

Output:

JavaScript function to find the area of triangle

Enter the value of side 1:

Enter the value of side 2:

Enter the value of side 3:

Calculate

Area of Triangle:**6**

a) Area of Rectangle

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>
        JavaScript Function to find
        the area of a Rectangle
    </title>
    <style>
        *{
            text-align:center;
        }
        body {
            font-family: Arial, sans-serif;
            background: #f9f9f9;
            text-align: center;
            padding: 30px;
        }
    </style>
```

```
h4 {  
    color: #333;  
    margin-bottom: 15px;  
}  
  
label {  
    display: block;  
    margin: 10px 0 5px;  
    font-weight: bold;  
}  
  
input {  
    padding: 6px;  
    width: 200px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    margin-bottom: 10px;  
}  
  
button {  
    margin-top: 10px;  
    background: #007BFF;  
    color: white;  
    border: none;  
    padding: 8px 15px;  
    border-radius: 5px;  
    cursor: pointer;  
}  
  
button:hover {  
    background: #0056b3;  
}  
  
p {  
    margin-top: 15px;  
    font-size: 16px;  
}  
  
#display {  
    color: #007BFF;  
    font-weight: bold;  
}  
}/>  
</style>  
</head>  
<body>  
    <h4>JavaScript function to find the area of Rectangle</h4>  
    <label for="side1">Enter the value of side 1:</label>
```

```

<input type="number" placeholder="Enter value of side 1" id="side1">
<br>
<label for="side2">Enter the value of side 2:</label>
<input type="number" placeholder="Enter value of side 1" id="side2">
<br>

<button onclick="Area()">Calculate</button>
<p>Area of Rectangle:<span id="display"></span></p>

<script>
    function Area(){
        var side1=parseInt(document.getElementById("side1").value);
        var side2=parseInt(document.getElementById("side2").value);

        var area=side1*side2;

        document.getElementById("display").innerHTML=area;
    }
</script>
</body>
</html>

```

Output:

JavaScript function to find the area of Rectangle

Enter the value of side 1:

4

Enter the value of side 2:

5

Calculate

Area of Rectangle:20

a)Area of Circle

Code:

```
<!DOCTYPE html>
```

```
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>
        JavaScript Function to find
        the area of a Circle
    </title>
    <style>
        *{
            text-align:center;
        }
        body {
            font-family: Arial, sans-serif;
            background: #f9f9f9;
            text-align: center;
            padding: 30px;
        }

        h4 {
            color: #333;
            margin-bottom: 15px;
        }

        label {
            display: block;
            margin: 10px 0 5px;
            font-weight: bold;
        }

        input {
            padding: 6px;
            width: 200px;
            border: 1px solid #ccc;
            border-radius: 5px;
            margin-bottom: 10px;
        }

        button {
            margin-top: 10px;
            background: #007BFF;
            color: white;
            border: none;
            padding: 8px 15px;
            border-radius: 5px;
            cursor: pointer;
        }
    </style>

```

```

button:hover {
    background: #0056b3;
}

p {
    margin-top: 15px;
    font-size: 16px;
}

#display {
    color: #007BFF;
    font-weight: bold;
}
#display2 {
    color: #007BFF;
    font-weight: bold;
}

```

</style>

</head>

<body>

<h4>JavaScript function to find the area of Circle</h4>

<label for="side1">Enter the value of side 1:</label>

<input type="number" placeholder="Enter value of side 1" id="side1">

<button onclick="Area()">Calculate</button>

<p>Area of Rectangle:

And Circumference:</p>

<script>

```

function Area(){
    var side1=parseInt(document.getElementById("side1").value);
    var area=side1*side1*Math.PI;
    var cer=2*side1*Math.PI;
    document.getElementById("display").innerHTML=area;
    document.getElementById("display2").innerHTML=cer;
}

```

</script>

</body>

</html>

Output:

JavaScript function to find the area of Circle

Enter the value of side 1:

10

Calculate

Area of Rectangle:**314.1592653589793**

And Circumference:**62.83185307179586**