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Division: 8	Batch: P8
Sub: JavaScript	

Practical No : 1: To Calculate the area of Triangle,Circle and Rectangle

Code:

1. HTML:

```
<!DOCTYPE html>

<head>

  <body id="b" style="text-align :center;">

    <h2>Exp 1: To Calculate the area of Triangle,Circle and Rectangle</h2>

    <h3>Aditi daberao</h3>

    <h4>Roll No: 42411</h4>

    <div class="triangle">

    <h3>Area of Triangle</h3>

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

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

    <br><br>

    <label for="side2">Enter the value of side 2:</label>

    <input type="number" id="side2" placeholder="Enter value of side 2">

    <br><br>

    <label for="side3">Enter the value of side 3:</label>

    <input type="number" id="side3" placeholder="Enter value of side 3">
```

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```
<br><br>

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

<button onclick="ResetT()">Reset</button>

<p>Area of Triangle: <span id="displayT"></span></p>

</div>

<div class="cirle">

<h3>Area of Circle</h3>

<label for="rad">Enter the value of radius:</label>

<input type="number" id="rad" placeholder="Enter value of radius">

<br><br>

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

<button onclick="ResetC()">Reset</button>

<p>Area of Circle: <span id="displayC"></span></p>

</div>

<div class="rectangle">

<h3>Area of Rectangle</h3>

<label for="len">Enter the value of length:</label>

<input type="number" id="len" placeholder="Enter value of length">

<br><br>

<label for="wid">Enter the value of width:</label>

<input type="number" id="wid" placeholder="Enter value of width">

<br><br>
```

```html
    <button onclick="AreaR()">Calculate</button>

    <button onclick="ResetR()">Reset</button>

    <p>Area of Rectangle: <span id="displayR"></span></p>

  </div>

  <script src="script.js"></script>

  </body>

</head>
```

2. JS

```javascript
function AreaT()

{

    var side1=parseInt(document.getElementById("side1").value);

    var side2 = parseInt(document.getElementById("side2").value);

    var side3 = parseInt(document.getElementById("side3").value);

    if(side1<0 || side2<0 || side3<0)

    {

        alert("Side Cannot be Negative");


    }

    else

    {

        var s=(side1+side2+side3)/2;

        var area=Math.sqrt((s-side1)*(s-side2)*(s-side3));
```

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```javascript
        document.getElementById('displayT').innerHTML=area;



    }

}

function AreaC()

{

    var rad=parseInt(document.getElementById('rad').value);

    if(rad<0)

    {

        alert("Radius Cannot be negative");

    }

    var area=Math.PI*rad*rad;

    document.getElementById('displayC').innerHTML= area;

}

function AreaR()

{

    var len = parseInt(document.getElementById('len').value);

    var wid =parseInt(document.getElementById('wid').value);

    if(len<0 || wid<0)

    {

        alert("Side cannot be negative");

    }
```

```javascript
else{

    var area = len*wid;

    document.getElementById('displayR').innerHTML= area;

  }

}

function ResetT()

{

  document.getElementById("side1").value=';

  document.getElementById("side2").value=';

  document.getElementById("side3").value=';

  document.getElementById('displayT').innerHTML="";

}

function ResetC()

{

  document.getElementById("rad").value=';

  document.getElementById('displayC').innerHTML="";

}

function ResetR()

{

  document.getElementById("len").value=';

  document.getElementById("wid").value=';

  document.getElementById('displayR').innerHTML="";
```

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```
}

function Reset()

{

    document.getElementById("side1").value=';

    document.getElementById("side2").value=';

    document.getElementById("side3").value=';

    document.getElementById("rad").value=';

    document.getElementById("len").value=';

    document.getElementById("wid").value=';

    document.getElementById('displayR').innerHTML="";

    document.getElementById('displayC').innerHTML="";

    document.getElementById('displayT').innerHTML="";


}
```

Output:

Exp 1: To Calculate the area of Triangle, Circle and Rectangle

Aditi daberao

Roll No: 42411

Area of Triangle

Enter the value of side 1: `10`

Enter the value of side 2: `8`

Enter the value of side 3: `9`

[Calculate] [Reset]

Area of Triangle: 9.307255234493143

Area of Circle

Enter the value of radius: `5`

[Calculate] [Reset]

Area of Circle: 78.53981633974483

Area of Rectangle

Enter the value of length: `10`

Enter the value of width: `5`

[Calculate] [Reset]

Area of Rectangle: 50

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Exp 1: T... **...Rectangle**

This page says

Side Cannot be Negative

OK

Roll No. 42417

Area of Triangle

Enter the value of side 1: -10

Enter the value of side 2: 8

Enter the value of side 3: 9

Calculate   Reset

Area of Triangle: 9.307255234493143

Area of Circle

Enter the value of radius: -5

Calculate   Reset

Area of Circle: 78.53981633974483

Area of Rectangle

Enter the value of length: 10

Enter the value of width: 5

Calculate   Reset

Area of Rectangle: 50