<!DOCTYPE html>

<html>

<head>

<title> Javascript Exercise</title>

</head>

<body>

<img id="img1" class="img-bg" src="http://images.clipartpanda.com/circle-clip-art-red-circle-md.png" />

<img id="img2" class="img-bg" src="http://texample.net/media/tikz/examples/PNG/rgb-triangle.png"/>

<img id="img3" class ="img-bg" src="https://maxwelldemon.files.wordpress.com/2012/03/2x1-rectangle.png"></img>

<img id="img4" class ="img-bg" src="https://upload.wikimedia.org/wikipedia/commons/thumb/b/b2/Green\_square.svg/1000px-Green\_square.svg.png"></img>

<img id="img5" class ="img-bg" src="http://www.pngall.com/wp-content/uploads/2016/04/Hexagon-PNG-Clipart.png"></img>

<div class="container-div">

<input type="button" id="Triangle" value="Triangle" onclick="showImg2();CalculateAreaTriangle();">

<input type="button" id="Circle" value="Circle" onclick="showImg1();CalculateAreaCirc();">

<input type="button" id="Rectangle" value="Rectangle" onclick="showImg3();CalculateAreaRect();">

<input type="button" id="Square" value="Square" onclick="showImg4();CalculateAreaSqr();">

<input type="button" id="Hexagon" value="Hexagon" onclick="showImg5();CalculateAreaHex();">

</div>

</body>

<style>

.img-bg{

z-index: -100;

display: none;

height: 100%;

position: absolute;

top:0;

left:0;

}

.container-div{

position:absolute;

top:0;

left:0;

display: block;

margin: auto auto;

}

#img2{

top:40px;

right:30px;

height:60%;

}

#img1{

top:40px;

right:40px;

height:60%;

}

#img3{

height: 60%;

width: 60%;

left:50px;

top:40px;

}

#img4{

height:60%;

left:50px;

top:40px;

}

</style>

   <form id="circleform" name=form1 align="right" style="display: none;">

       Enter the radius of circle:

      <input type="text" name="txtRadius" size=10>

      <br>

      <input class="calculatebutton" type="button" value="Calculate" onClick='CalculateAreaCirc();'>

      <div id="areamsg"></div>

      <div id="circumferencemsg"> </div>

   </form>

   <form id="triangleform" name=form2 align="right" style="display: none;">

       Enter the three sides of the triangle :

      <input type="text" name="side1" size= 10>

      <input type="text" name="side2" size= 10>

      <input type="text" name="side3" size= 10>

      <br>

      <input class="calculatebutton" type="button" value="Calculate" onClick='CalculateAreaTriangle();'>

      <div id="trimsg"></div>

      <div id="perimetermsg"> </div>

   </form>

   <form id="rectangleform" name=form3 align="right" style="display: none;">

       Enter the length,breadth of the rectangle :

      <input type="text" name="rectlen" size=10>

      <input type="text" name="rectbrd" size=10>

      <br>

      <input class="calculatebutton" type="button" value="Calculate" onClick='CalculateAreaRect();'>

      <div id="rectareamsg"></div>

      <div id="rectpermsg"> </div>

   </form>

   <form id="squareform" name=form4 align="right" style="display: none;">

       Enter the side of the square :

      <input type="text" name="sqrside" size=10>

      <br>

      <input class="calculatebutton" type="button" value="Calculate" onClick='CalculateAreaSqr();'>

      <div id="sqrareamsg"></div>

      <div id="sqrperimetermsg"> </div>

   </form>

   <form id="hexform" name=form5 align="right" style="display: none;">

       Enter the side of the hexagon:

      <input type="text" name="hexside" size=10>

      <br>

      <input class="calculatebutton" type="button" value="Calculate" onClick='CalculateAreaHex();'>

      <div id="hexareamsg"></div>

      <div id="hexperimetermsg"> </div>

   </form>

<script>

 function CalculateAreaHex(){

   document.getElementById("rectangleform").style.display="none";

   document.getElementById("triangleform").style.display="none";

   document.getElementById("circleform").style.display="none";

   document.getElementById("squareform").style.display="none";

   document.getElementById("hexform").style.display="block";

      var hside =document.form5.hexside.value;

        document.getElementById("hexareamsg").innerHTML =("<P>The area of the hexagon is " + (2.59807621 \* Math.pow(hside,2) ) + "</p>");

        document.getElementById("hexperimetermsg").innerHTML =("<P>The perimeter of the hexagon is " + (6 \* hside) + "</p>");

   }

 function CalculateAreaSqr(){

   document.getElementById("hexform").style.display="none";

   document.getElementById("rectangleform").style.display="none";

   document.getElementById("triangleform").style.display="none";

   document.getElementById("circleform").style.display="none";

   document.getElementById("squareform").style.display="block";

     var side =document.form4.sqrside.value;

       document.getElementById("sqrareamsg").innerHTML =("<P>The area of the square is " + (Math.pow(side,2)) + "</p>");

       document.getElementById("sqrperimetermsg").innerHTML =("<P>The perimeter of the square is " + (4 \* side) + "</p>");

   }

function CalculateAreaRect(){

     document.getElementById("hexform").style.display="none";

document.getElementById("triangleform").style.display="none";

document.getElementById("circleform").style.display="none";

document.getElementById("rectangleform").style.display="block";

   document.getElementById("squareform").style.display="none";

     var rectl =document.form3.rectlen.value;

     var rectb =document.form3.rectbrd.value;

       var rectarea = rectl \* rectb;

       var rectperimeter = 2\*(+rectl+ +rectb);

       document.getElementById("rectareamsg").innerHTML =("<P>The area of the rectangle is " + (rectarea)  +"</p>");

       document.getElementById("rectpermsg").innerHTML =("<P>The perimeter of the rectangle is " + (rectperimeter)  +"</p>");

   }

function CalculateAreaCirc(){

     document.getElementById("hexform").style.display="none";

document.getElementById("rectangleform").style.display="none";

document.getElementById("triangleform").style.display="none";

document.getElementById("circleform").style.display="block";

   document.getElementById("squareform").style.display="none";

   var radius =document.form1.txtRadius.value;

       document.getElementById("areamsg").innerHTML =("<P>The area of the circle is " + (radius \* radius \* Math.PI) + "</p>");

       document.getElementById("circumferencemsg").innerHTML =("<P>The circumference of the circle is " + (2 \* radius \* Math.PI) + "</p>");

   }

    function CalculateAreaTriangle(){

     document.getElementById("hexform").style.display="none";

     document.getElementById("rectangleform").style.display="none";

     document.getElementById("circleform").style.display="none";

document.getElementById("triangleform").style.display="block";

    document.getElementById("squareform").style.display="none";

    var a =document.form2.side1.value;

    var b =document.form2.side2.value;

    var c =document.form2.side3.value;

    var perimeter = +a + +b + +c;

    var s = (+a + +b + +c )\*0.5;

    var area = Math.sqrt(s\* +(s-a) \* +(s-b) \* +(s-c));

        document.getElementById("trimsg").innerHTML =("<P>The area of the triangle is " + (area) + "</p>");

        document.getElementById("perimetermsg").innerHTML =("<P>The perimeter of the triangle is " + (perimeter) + "</p>");

    }

      function showImg1() {

           document.getElementById("img2").style.display="none";

           document.getElementById("img3").style.display="none";

           document.getElementById("img4").style.display="none";

           document.getElementById("img5").style.display="none";

           document.getElementById("img1").style.display="block";

       }

       function showImg2() {

document.getElementById("img1").style.display="none";

           document.getElementById("img2").style.display="block";

           document.getElementById("img3").style.display="none";

           document.getElementById("img4").style.display="none";

           document.getElementById("img5").style.display="none";

       }

       function showImg3() {

        document.getElementById("img1").style.display="none";

        document.getElementById("img2").style.display="none";

           document.getElementById("img3").style.display="block";

           document.getElementById("img4").style.display="none";

           document.getElementById("img5").style.display="none";

       }

       function showImg4() {

           document.getElementById("img2").style.display="none";

           document.getElementById("img4").style.display="block";

           document.getElementById("img3").style.display="none";

           document.getElementById("img1").style.display="none";

           document.getElementById("img5").style.display="none";

       }

       function showImg5() {

           document.getElementById("img2").style.display="none";

           document.getElementById("img5").style.display="block";

           document.getElementById("img3").style.display="none";

           document.getElementById("img1").style.display="none";

           document.getElementById("img4").style.display="none";

       }

   </script>

</html>