Roll no: 42405 Batch: Q6

Output:

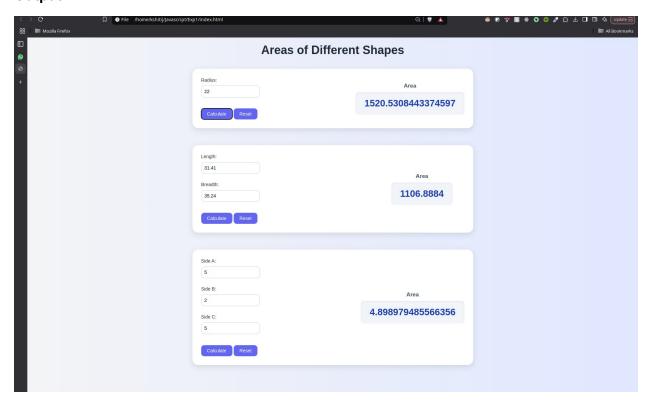


Fig. Main Website



Fig. Circle Area



Fig. Reset Button Pressed



Fig. Rectangle Area

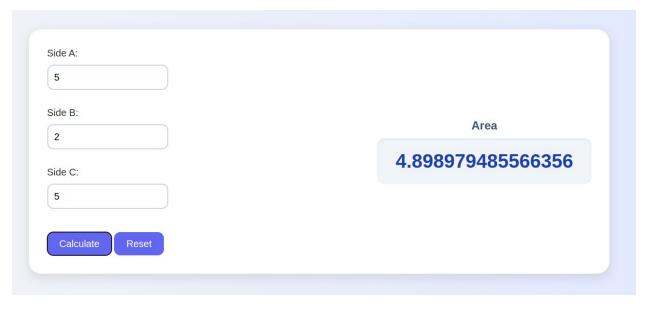


Fig. Triangle Area

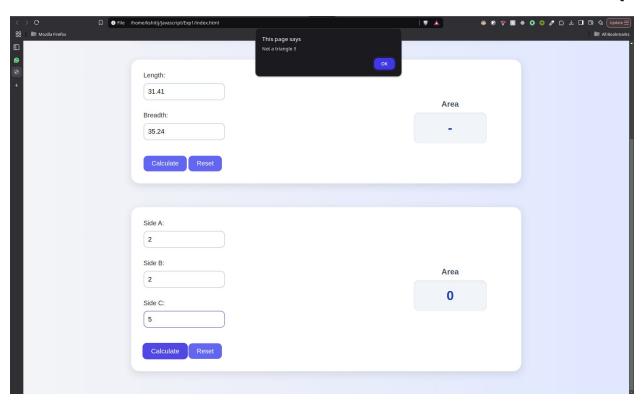


Fig. Invalid triangle (2 + 2 = 4 < 5)

Code:

1. HTML:

```
<div class="result-section">
            <div class="area-label">Area</div>
            <div class="area-box" id="AreaCircle">0</div>
        </div>
   </div>
   <br/>
   <div class="shape-box">
        <div class="form-section">
            Length: <input id="lengthOfRect" placeholder=0 type="number"><br/>>
            Breadth: <input id="breadthOfRect" placeholder=0 type="number"><br/>>
                <div class="button-row">
            <button onclick="rect_area()"> Calculate </button>
            <button id="ResetRect" onclick="reset()"> Reset </button>
                </div>
        </div>
        <!-- <canvas id="myCanvas" width="300" height="300" style="border:4px
solid #000000; border-radius: 10px;"></canvas> -->
        <div class="result-section">
            <div class="area-label">Area</div>
            <div class="area-box" id="AreaRect">0</div>
        </div>
   </div>
   <br/>
   <div class="shape-box">
        <div class="form-section">
            Side A: <input id="sideA" placeholder=0 type="number"><br/>>
            Side B: <input id="sideB" placeholder=0 type="number"><br/>>
            Side C: <input id="sideC" placeholder=0 type="number"><br/>>
            <div class="button-row">
```

```
<button onclick="triangle_area()"> Calculate </button>
                       <button id="ResetTriangle" onclick="reset()"> Reset </button>
                  </div>
              </div>
              <!-- <canvas id="myCanvas" width="300" height="300" style="border:4px
      solid #000000; border-radius: 10px;"></canvas> -->
              <div class="result-section">
                  <div class="area-label">Area</div>
                  <div class="area-box" id="AreaTriangle">0</div>
              </div>
          </div>
          <br/>
          </body>
      </html>
   2. CSS:
body {
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    background: linear-gradient(to right, #f3f4f6, #e0e7ff);
    margin: 0;
    padding: 20px;
    color: #333;
}
h1 {
    text-align: center;
    color: #1f2937;
    margin-bottom: 40px;
    font-size: 2.5rem;
    animation: fadeIn 1s ease;
```

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```
}
.shape-box {
    background-color: #ffffff;
   max-width: 900px;
    margin: 20px auto;
    padding: 30px;
   border-radius: 20px;
   box-shadow: 0 6px 20px rgba(0, 0, 0, 0.1);
    transition: transform 0.3s ease;
    animation: slideUp 0.7s ease;
    display: flex;
    justify-content: space-between;
    align-items: center;
    gap: 30px;
}
.form-section {
   flex: 2;
   display: flex;
    flex-direction: column;
   gap: 10px;
}
.result-section {
    flex: 1;
    text-align: center;
    display: flex;
    flex-direction: column;
    align-items: center;
```

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```
Roll no: 42405
    gap: 10px;
}
.area-label {
    font-size: 1.2rem;
   color: #475569;
    font-weight: 600;
}
.area-box {
    background-color: #f1f5f9;
   padding: 20px 30px;
   border-radius: 12px;
   box-shadow: inset 0 2px 5px rgba(0, 0, 0, 0.05);
    font-size: 2rem;
   color: #1e40af;
    font-weight: bold;
   min-width: 120px;
    transition: all 0.3s ease;
}
input[type="number"] {
    padding: 10px;
   border: 2px solid #cbd5e1;
   border-radius: 10px;
    font-size: 1rem;
   width: 200px;
   transition: border 0.3s;
}
```

```
input[type="number"]:focus {
    border-color: #6366f1;
   outline: none;
}
button {
    background-color: #6366f1;
    color: white;
   padding: 10px 20px;
   border: none;
   border-radius: 10px;
    cursor: pointer;
    font-size: 1rem;
    transition: background-color 0.3s, transform 0.2s;
}
button:hover {
    background-color: #4f46e5;
    transform: scale(1.05);
}
/* Animations */
@keyframes fadeIn {
    from { opacity: 0; transform: translateY(-20px); }
    to { opacity: 1; transform: translateY(0); }
}
@keyframes slideUp {
    from { transform: translateY(30px); opacity: 0; }
```

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to { transform: translateY(0); opacity: 1; } } 3. Javascript: function circle_area() { var radius = document.getElementById("radiusOfCircle").value; if (radius < 0) // Alert return null; let area = Math.PI * radius * radius; console.log(area); document.getElementById("AreaCircle").innerHTML = area; } function rect_area() { var length = document.getElementById("lengthOfRect").value; var breadth = document.getElementById("breadthOfRect").value; if (length < 0 || breadth < 0) // Alert return null; let area = (length * breadth); // Debug console.log(area); document.getElementById("AreaRect").innerHTML = area;

}

```
function triangle_area() {
  var a = +document.getElementById("sideA").value;
  var b = +document.getElementById("sideB").value;
  var c = +document.getElementById("sideC").value;
  // Semi Perimeter
 console.log(a + " " + b + " " + c);
  var s = (a + b + c) / 2;
  var val = s * (s - a) * (s - b) * (s - c);
  console.log(val);
  if (val < 0) {
   alert("Not a triangle !!");
    return;
  }
  var area = Math.sqrt(val);
  console.log(area);
 document.getElementById("AreaTriangle").innerHTML = area;
}
function reset() {
  var id = "";
  switch (event.target.id) {
  case "ResetCircle":
   id = "AreaCircle"
   break;
  case "ResetRect":
    id = "AreaRect"
    break;
```

```
case "ResetTriangle":
   id = "AreaTriangle"
   break;
default:
   alert("Nope");
}

document.getElementById(id).innerHTML = "-";
}
```