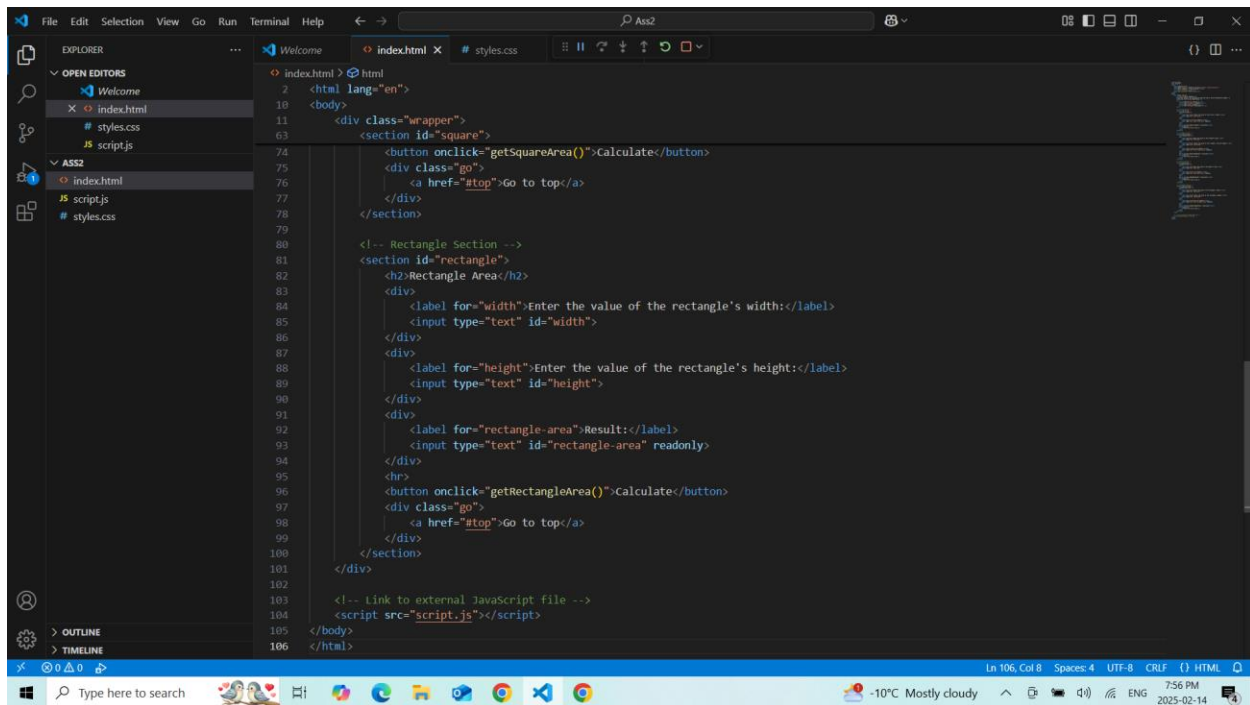


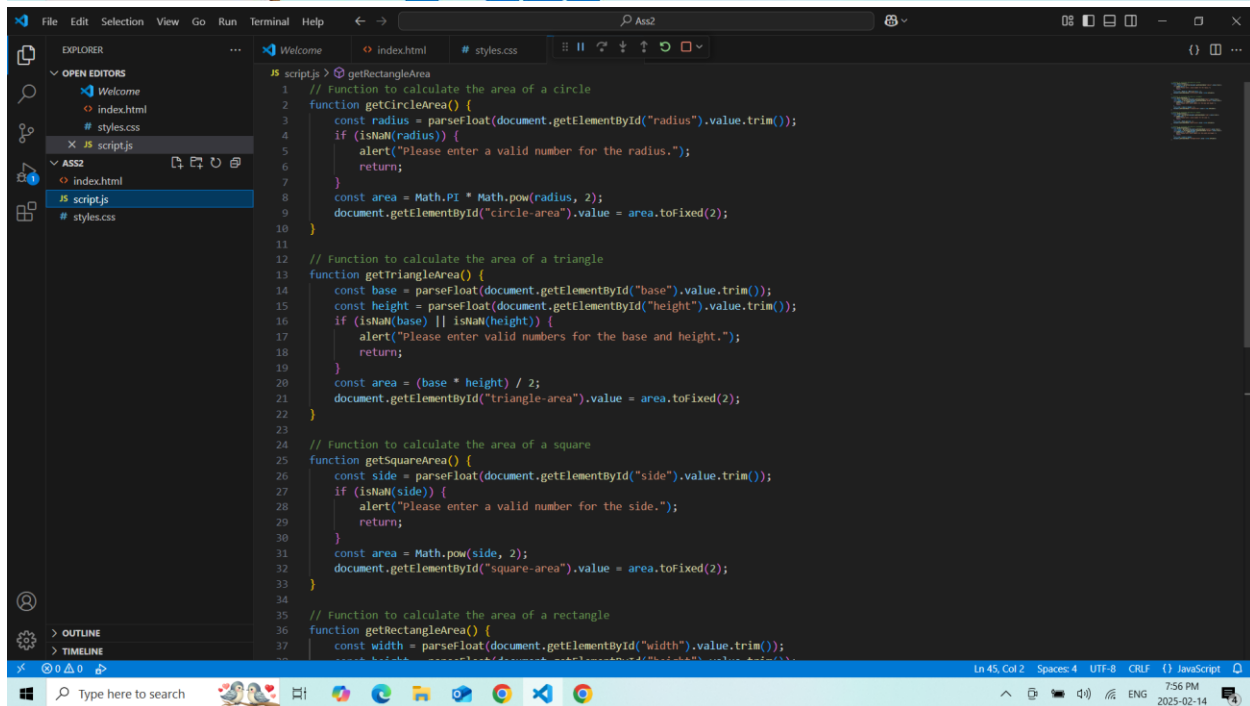
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Basic Geometry - Area Calculator</title>
7   <!-- Link to external CSS file -->
8   <link rel="stylesheet" href="styles.css">
9 </head>
10 <body>
11   <div class="wrapper">
12     <h1 id="top">Basic Geometry</h1>
13     <p>In this section, we are going to find the Area of some two-dimension shapes.</p>
14     <p>You can click on any shape below:</p>
15     <ul>
16       <li><a href="#circle">Circle</a></li>
17       <li><a href="#triangle">Triangle</a></li>
18       <li><a href="#square">Square</a></li>
19       <li><a href="#rectangle">Rectangle</a></li>
20     </ul>
21
22     <!-- Circle Section -->
23     <section id="circle">
24       <h2>Circle Area</h2>
25       <div>
26         <label for="radius">Enter the value of the circle's radius:</label>
27         <input type="text" id="radius">
28       </div>
29       <div>
30         <label for="circle-area">Result:</label>
31         <input type="text" id="circle-area" readonly>
32       </div>
33       <hr>
34       <button onclick="getCircleArea()">Calculate</button>
35       <div class="go">
36         <a href="#top">Go to top</a>
37       </div>
38     </section>
39   </div>
40 </body>
41 </html>
```

```
11 <div class="wrapper">
12
13   <!-- Triangle Section -->
14   <section id="triangle">
15     <h2>Triangle Area</h2>
16     <div>
17       <label for="base">Enter the value of the triangle's base:</label>
18       <input type="text" id="base">
19     </div>
20     <div>
21       <label for="height">Enter the value of the triangle's vertical height:</label>
22       <input type="text" id="height">
23     </div>
24     <div>
25       <label for="triangle-area">Result:</label>
26       <input type="text" id="triangle-area" readonly>
27     </div>
28     <hr>
29     <button onclick="getTriangleArea()">Calculate</button>
30     <div class="go">
31       <a href="#top">Go to top</a>
32     </div>
33   </section>
34
35   <!-- Square Section -->
36   <section id="square">
37     <h2>Square Area</h2>
38     <div>
39       <label for="side">Enter the value of the square's side:</label>
40       <input type="text" id="side">
41     </div>
42     <div>
43       <label for="square-area">Result:</label>
44       <input type="text" id="square-area" readonly>
45     </div>
46     <hr>
47   </section>
48 </div>
49 </body>
50 </html>
```



This screenshot shows the Visual Studio Code editor with the `index.html` file open. The Explorer sidebar on the left shows the project structure with files `index.html`, `styles.css`, and `script.js`. The main editor area displays the HTML code for a web page. The code includes a square calculator section and a rectangle calculator section. The square section has a button `Calculate` and a `go` link. The rectangle section has input fields for width and height, a `Calculate` button, and a `go` link. A comment at the bottom indicates a link to an external JavaScript file.

```
1 <html lang="en">
2 <body>
3   <div class="wrapper">
4     <section id="square">
5       <button onclick="getSquareArea()">Calculate</button>
6       <div class="go">
7         <a href="#top">Go to top</a>
8       </div>
9     </section>
10
11    <!-- Rectangle Section -->
12    <section id="rectangle">
13      <h2>Rectangle Area</h2>
14      <div>
15        <label for="width">Enter the value of the rectangle's width:</label>
16        <input type="text" id="width">
17      </div>
18      <div>
19        <label for="height">Enter the value of the rectangle's height:</label>
20        <input type="text" id="height">
21      </div>
22      <div>
23        <label for="rectangle-area">Result:</label>
24        <input type="text" id="rectangle-area" readonly>
25      </div>
26      <hr>
27      <button onclick="getRectangleArea()">Calculate</button>
28      <div class="go">
29        <a href="#top">Go to top</a>
30      </div>
31    </section>
32  </div>
33
34  <!-- Link to external Javascript file -->
35  <script src="script.js"></script>
36</body>
37</html>
```



This screenshot shows the Visual Studio Code editor with the `script.js` file open. The Explorer sidebar on the left shows the project structure with files `index.html`, `styles.css`, and `script.js`. The main editor area displays the JavaScript code for calculating the area of a circle, triangle, square, and rectangle. Each function takes user input, validates it, and updates the corresponding area field.

```
1 // Function to calculate the area of a circle
2 function getCircleArea() {
3   const radius = parseFloat(document.getElementById("radius").value.trim());
4   if (isNaN(radius)) {
5     alert("Please enter a valid number for the radius.");
6     return;
7   }
8   const area = Math.PI * Math.pow(radius, 2);
9   document.getElementById("circle-area").value = area.toFixed(2);
10 }
11
12 // Function to calculate the area of a triangle
13 function getTriangleArea() {
14   const base = parseFloat(document.getElementById("base").value.trim());
15   const height = parseFloat(document.getElementById("height").value.trim());
16   if (isNaN(base) || isNaN(height)) {
17     alert("Please enter valid numbers for the base and height.");
18     return;
19   }
20   const area = (base * height) / 2;
21   document.getElementById("triangle-area").value = area.toFixed(2);
22 }
23
24 // Function to calculate the area of a square
25 function getSquareArea() {
26   const side = parseFloat(document.getElementById("side").value.trim());
27   if (isNaN(side)) {
28     alert("Please enter a valid number for the side.");
29     return;
30   }
31   const area = Math.pow(side, 2);
32   document.getElementById("square-area").value = area.toFixed(2);
33 }
34
35 // Function to calculate the area of a rectangle
36 function getRectangleArea() {
37   const width = parseFloat(document.getElementById("width").value.trim());
38   const height = parseFloat(document.getElementById("height").value.trim());
39   if (isNaN(width) || isNaN(height)) {
40     alert("Please enter valid numbers for the width and height.");
41     return;
42   }
43   const area = width * height;
44   document.getElementById("rectangle-area").value = area.toFixed(2);
45 }
```

This screenshot shows the VS Code editor with the Explorer sidebar on the left. The Explorer sidebar shows the file structure with folders 'OPEN EDITORS' and 'ASS2'. The 'OPEN EDITORS' folder contains 'Welcome', 'index.html', 'styles.css', and 'script.js'. The 'ASS2' folder contains 'index.html', 'script.js', and 'styles.css'. The 'script.js' file is selected and its content is displayed in the main editor. The code defines three functions: `getTriangleArea()`, `getSquareArea()`, and `getRectangleArea()`. Each function takes user input for dimensions, validates it, and calculates the area, displaying the result in a text input field.

```
11 // Function to calculate the area of a triangle
12 function getTriangleArea() {
13     const base = parseFloat(document.getElementById("base").value.trim());
14     const height = parseFloat(document.getElementById("height").value.trim());
15     if (isNaN(base) || isNaN(height)) {
16         alert("Please enter valid numbers for the base and height.");
17         return;
18     }
19     const area = (base * height) / 2;
20     document.getElementById("triangle-area").value = area.toFixed(2);
21 }
22
23 // Function to calculate the area of a square
24 function getSquareArea() {
25     const side = parseFloat(document.getElementById("side").value.trim());
26     if (isNaN(side)) {
27         alert("Please enter a valid number for the side.");
28         return;
29     }
30     const area = Math.pow(side, 2);
31     document.getElementById("square-area").value = area.toFixed(2);
32 }
33
34 // Function to calculate the area of a rectangle
35 function getRectangleArea() {
36     const width = parseFloat(document.getElementById("width").value.trim());
37     const height = parseFloat(document.getElementById("height").value.trim());
38     if (isNaN(width) || isNaN(height)) {
39         alert("Please enter valid numbers for the width and height.");
40         return;
41     }
42     const area = width * height;
43     document.getElementById("rectangle-area").value = area.toFixed(2);
44 }
45
```

This screenshot shows the VS Code editor with the Explorer sidebar on the left. The Explorer sidebar shows the file structure with folders 'OPEN EDITORS' and 'ASS2'. The 'OPEN EDITORS' folder contains 'Welcome', 'index.html', 'styles.css', and 'script.js'. The 'ASS2' folder contains 'index.html', 'script.js', and 'styles.css'. The 'styles.css' file is selected and its content is displayed in the main editor. The code defines a `body` style with a background gradient, font family, and text alignment. It also defines a `.wrapper` class for the main container and a `h1` heading style.

```
1 /* Google Fonts */
2 @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&family=RobotoMono:wght@400;700&display=swap');
3
4 /* Global Styles */
5 body {
6     font-family: 'Poppins', sans-serif;
7     background: linear-gradient(135deg, #1e3c72, #2a5298);
8     margin: 0;
9     padding: 0;
10    display: flex;
11    justify-content: center;
12    align-items: center;
13    min-height: 100vh;
14    color: #333;
15 }
16
17 /* Main container */
18 .wrapper {
19     width: 90%;
20     max-width: 800px;
21     background: #f9f9f9;
22     border-radius: 15px;
23     box-shadow: 0 10px 30px #0000000.2;
24     padding: 30px;
25     text-align: center;
26     backdrop-filter: blur(10px);
27 }
28
29 /* Heading */
30 h1 {
31     font-size: 2.5rem;
32     color: #1e3c72;
33     margin-bottom: 20px;
34     text-transform: uppercase;
35     letter-spacing: 2px;
36 }
37
```

This screenshot shows the Visual Studio Code editor with the 'styles.css' file open. The code defines styles for paragraphs and unordered lists. The Explorer sidebar on the left shows the project structure with files 'index.html', 'styles.css', and 'script.js' under the 'ASS2' folder. The status bar at the bottom indicates 'Ln 12, Col 25', 'Spaces: 4', 'UTF-8', 'CRLF', and 'CSS'.

```
# styles.css > body
/* Paragraphs */
p {
  font-size: 1.1rem;
  color: #555;
  margin-bottom: 20px;
}

/* Unordered List */
ul {
  list-style: none;
  padding: 0;
  margin-bottom: 30px;
  display: flex;
  justify-content: center;
  flex-wrap: wrap;
}

ul li {
  margin: 10px;
}

ul li a {
  text-decoration: none;
  color: #fff;
  background: #4CAF50;
  padding: 10px 20px;
  border-radius: 25px;
  font-weight: 600;
  font-size: 1.1rem;
  transition: all 0.3s ease;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
}

ul li a:hover {
  background: #45a049;
  transform: translateY(-3px);
  box-shadow: 0 6px 10px rgba(0, 0, 0, 0.2);
}
```

This screenshot shows the Visual Studio Code editor with the 'styles.css' file open, displaying the continuation of the CSS code. The Explorer sidebar on the left shows the project structure with files 'index.html', 'styles.css', and 'script.js' under the 'ASS2' folder. The status bar at the bottom indicates 'Ln 12, Col 25', 'Spaces: 4', 'UTF-8', 'CRLF', and 'CSS'.

```
# styles.css > body
/* Sections */
section {
  width: 90%;
  max-width: 600px;
  background: rgba(255, 255, 255, 0.9);
  border-radius: 10px;
  box-shadow: 0 5px 15px rgba(0, 0, 0, 0.1);
  margin: 20px auto;
  padding: 20px;
  text-align: left;
  backdrop-filter: blur(10px);
  transition: transform 0.3s ease, box-shadow 0.3s ease;
}

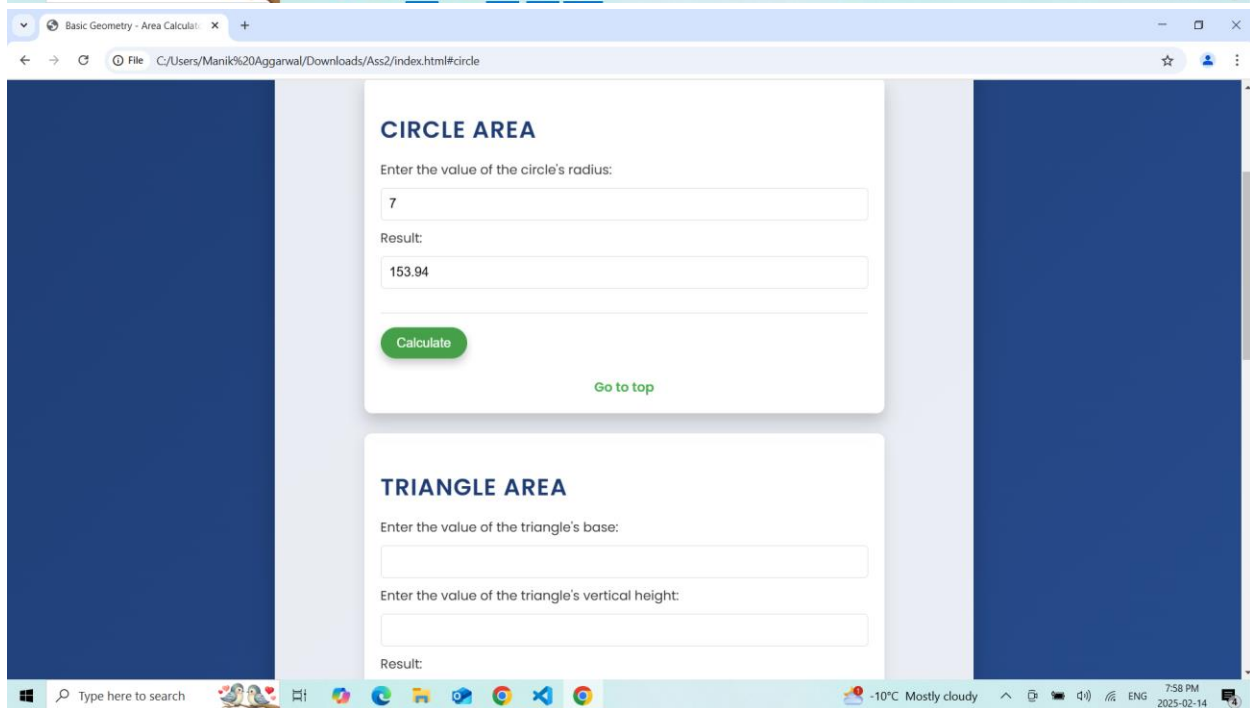
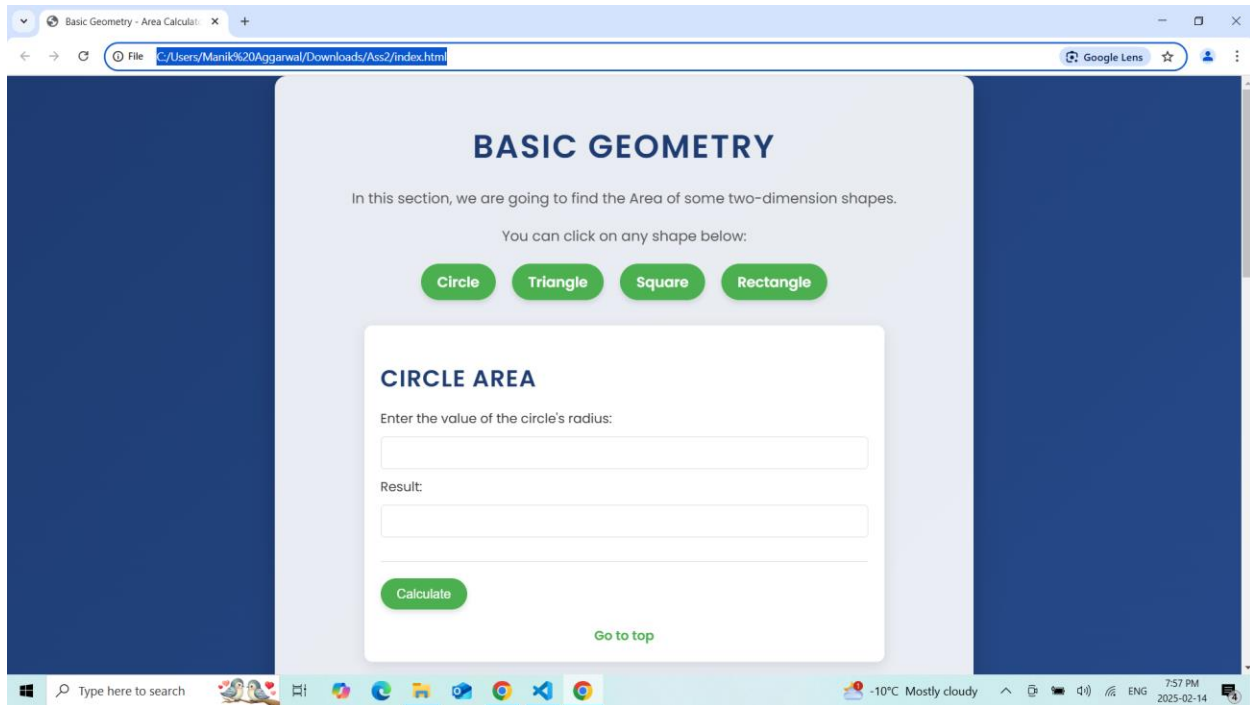
section:hover {
  transform: translateY(-5px);
  box-shadow: 0 10px 20px rgba(0, 0, 0, 0.2);
}

section h2 {
  font-size: 1.8rem;
  color: #01e372;
  margin-bottom: 15px;
  text-transform: uppercase;
  letter-spacing: 1px;
}

/* Input Fields */
input[type="text"] {
  width: 100%;
  padding: 10px;
  margin: 10px 0;
  border: 1px solid #ddd;
  border-radius: 5px;
  font-size: 1rem;
  box-sizing: border-box;
  transition: border-color 0.3s ease;
}
```

```
# styles.css > body
105 input[type="text"] {
114 }
115
116 input[type="text"]:focus {
117   border-color: #4CAF50;
118   outline: none;
119 }
120
121 /* Buttons */
122 button {
123   padding: 10px 20px;
124   background-color: #4CAF50;
125   color: white;
126   border: none;
127   border-radius: 25px;
128   font-size: 1rem;
129   cursor: pointer;
130   transition: all 0.3s ease;
131   box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
132 }
133
134 button:hover {
135   background-color: #45a049;
136   transform: translateY(-3px);
137   box-shadow: 0 6px 10px rgba(0, 0, 0, 0.2);
138 }
139
140 /* Go to top div */
141 .go {
142   text-align: center;
143   margin-top: 20px;
144 }
145
146 .go a {
147   text-decoration: none;
148   color: #4CAF50;
149   font-weight: 600;
150 }
```

```
# styles.css > body
145
146 .go a {
147   text-decoration: none;
148   color: #4CAF50;
149   font-weight: 600;
150   font-size: 1rem;
151   transition: color 0.3s ease;
152 }
153
154 .go a:hover {
155   color: #45a049;
156 }
157
158 /* Horizontal Line */
159 hr {
160   border: 0;
161   height: 1px;
162   background: #ddd;
163   margin: 20px 0;
164 }
165
166 /* Animations */
167 @keyframes fadeIn {
168   from {
169     opacity: 0;
170     transform: translateY(20px);
171   }
172   to {
173     opacity: 1;
174     transform: translateY(0);
175   }
176 }
177
178 .wrapper, section {
179   animation: fadeIn 0.8s ease-out;
180 }
```



Basic Geometry - Area Calcula... X +

File C:/Users/Manik%20Aggarwal/Downloads/Ass2/index.html#triangle

TRIANGLE AREA

Enter the value of the triangle's base:

Enter the value of the triangle's vertical height:

Result:

Calculate

[Go to top](#)

SQUARE AREA

Enter the value of the square's side:

Result:

Basic Geometry - Area Calcula... X +

File C:/Users/Manik%20Aggarwal/Downloads/Ass2/index.html#square

SQUARE AREA

Enter the value of the square's side:

Result:

Calculate

[Go to top](#)

RECTANGLE AREA

Enter the value of the rectangle's width:

Enter the value of the rectangle's height:

Result:

