

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>Student Profile</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
      /* Global Reset and Base Styles */
      * {
        box-sizing: border-box; /* Ensures padding & border are included in total width/height
      }
    
```



```
body{
  margin: 0;
  font-family: Arial, Helvetica, sans-serif;
  background-color: #f4f6fb;
  color: #222;
}
```



```
.page-wrapper {
  max-width: 1000px; /* Prevents content from stretching too wide on large screens
}
  margin: 0 auto;
  padding: 16px;
}
```



```
/* 1. Header Section */
header {
```

```
height: auto; /* Can grow with content */  
padding: 20px;  
background-color: #1e3a8a;  
color: #ffffff;  
text-align: center;  
outline: 3px solid #0ea5e9; /* Outline to highlight header area */  
outline-offset: 4px;  
border-radius: 8px;  
}  
  
header h1 {
```

```
margin: 0;  
font-size: 1.8rem;  
}
```

```
header h2 {  
margin: 4px 0 0;  
font-size: 1.2rem;  
font-weight: normal;  
opacity: 0.9;  
}
```

```
/* 2. Student Profile Card */
```

```
.profile-section {  
margin-top: 24px;  
display: flex;  
justify-content: center;  
}
```

```
.profile-card {  
  width: 100%; /* Full width on small screens */  
  max-width: 600px; /* ✅ Required: max-width 600px */  
  margin: auto; /* ✅ Center horizontally */  
  padding: 20px; /* ✅ Box model padding */  
  background-color: #ffffff;  
  border: 1px solid #e5e7eb; /* ✅ Border for box model */  
  border-radius: 12px; /* Rounded corners */  
  box-shadow: 0 4px 12px rgba(15, 23, 42, 0.12);  
  outline: 3px solid #6366f1; /* ✅ Outline for emphasis */  
  outline-offset: 6px; /* ✅ Outline offset */  
  min-height: 260px; /* ✅ Ensure minimum height */  
}
```

```
.profile-top {  
  display: flex;  
  flex-wrap: wrap;  
  gap: 16px;  
  align-items: center;  
}
```

```
.profile-photo {  
  flex: 0 0 140px;  
  max-width: 140px;  
}
```

```
.profile-photo img{  
    width: 100%; /* ✓ Responsive image width */  
    height: auto; /* ✓ Maintain aspect ratio */  
    display: block;  
    border-radius: 50%;  
    border: 3px solid #1e3a8a;  
}  
  
/*
```

```
.profile-info {  
    flex: 1 1 200px;  
    min-width: 0;  
}
```

```
.profile-info h3 {  
    margin: 0 0 8px;  
    font-size: 1.4rem;  
    color: #111827;  
}
```

```
.profile-info p {  
    margin: 4px 0;  
    font-size: 0.95rem;  
}
```

```
.label {  
    font-weight: bold;  
    color: #4b5563;  
}
```

```
.profile-bio {  
    margin-top: 16px;  
    font-size: 0.95rem;  
    line-height: 1.5;  
    color: #374151;  
}
```

/ 3. General Section Titles */*

```
.section-title {  
    margin: 32px 0 12px;  
    font-size: 1.2rem;  
    color: #1f2933;  
    border-bottom: 2px solid #e5e7eb;  
    padding-bottom: 4px;  
}
```

/ 5. Outline Demonstration Boxes */*

```
.outline-demo-container {  
    display: flex;  
    flex-wrap: wrap;  
    gap: 12px;  
}
```

```
.outline-box {  
    flex: 1 1 120px;  
    min-width: 120px;  
    padding: 10px;
```

```
text-align: center;  
background-color: #ffffff;  
border: 1px solid #d1d5db;  
font-size: 0.85rem;  
}  
  
.outline-dotted {  
outline-style: dotted;  
outline-width: 3px;  
outline-color: #2563eb;  
}  
  
.outline-dashed {  
outline: 3px dashed #16a34a; /* ✅ shorthand */  
}  
  
.outline-solid {  
outline: 3px solid #f97316;  
}  
  
.outline-positive-offset {  
outline: 3px solid #ec4899;  
outline-offset: 6px; /* ✅ positive offset pushes outline outward */  
}  
  
.outline-negative-offset {  
outline: 3px solid #9333ea;  
outline-offset: -4px; /* ✅ negative offset moves outline inside */
```

```
}
```

```
/* 6. auto vs initial demonstration */
```

```
.auto-initial-container {  
  display: flex;  
  flex-wrap: wrap;  
  gap: 16px;  
}
```

```
.ai-box {  
  flex: 1 1 250px;  
  min-width: 220px;  
  padding: 12px;  
  background-color: #ffffff;  
  border: 1px solid #d1d5db;  
  font-size: 0.9rem;  
}
```

```
.auto-box {  
  height: auto; /* ✅ height determined by content */  
}
```

```
.initial-box {  
  height: initial; /* ✅ resets to default (auto for block elements in most browsers) */  
  max-height: 120px; /* Limit height to show difference with overflow */  
  overflow-y: auto;  
}
```

```
/* 7. Rounded Outline Example */

.rounded-outline {
    margin-top: 16px;
    padding: 14px;
    background-color: #eff6ff;
    border-radius: 20px; /* ✅ Rounded corners */
    outline: 3px solid #3b82f6; /* ✅ Outline with border-radius */
    outline-offset: 4px;
    font-size: 0.9rem;
}

/* Utility box model example (for comment calculation reference) */

.box-model-example {
    width: 400px;
    padding: 20px;
    border: 5px solid black;
    margin-top: 16px;
    background-color: #ffffff;
    max-width: 100%; /* ✅ Prevent horizontal scrolling on small screens */
}

/*
4. Box Model Calculation Task (content-box, default):
width: 400px;
padding: 20px; (left + right = 40px)
border: 5px; (left + right = 10px)

```

Total horizontal width = content width + left padding + right padding + left border + right border

$$= 400\text{px} + 20\text{px} + 20\text{px} + 5\text{px} + 5\text{px}$$

$$= 460\text{px total width}$$

*/

```
/* Responsive adjustments */

@media (max-width: 600px) {

    header h1 {

        font-size: 1.4rem;

    }

    .profile-card {

        padding: 16px;

    }

}

</style>

</head>

<body>

    <div class="page-wrapper">

        <!-- 1. Header Section -->

        <header>

            <h1>ABC Institute of Technology</h1>

            <h2>Student Profile</h2>

        </header>

        <!-- 2. Student Profile Card -->

        <section class="profile-section">
```

```
<article class="profile-card">
  <div class="profile-top">
    <div class="profile-photo">
      <!-- You can replace src with actual student image -->
      
    </div>
    <div class="profile-info">
      <h3>John Doe</h3>
      <p><span class="label">USN:</span> 1AB22CS001</p>
      <p><span class="label">Branch:</span> Computer Science and Engineering</p>
      <p><span class="label">Email:</span> john.doe@example.edu</p>
    </div>
  </div>
  <p class="profile-bio">
    John is a final-year Computer Science student with a strong interest in full-stack web development, open-source contributions, and cloud computing. He loves participating in coding competitions and hackathons and enjoys working on real-world projects that solve meaningful problems.
  </p>
</article>
</section>
```

```
<!-- 5. Outline Demonstration -->
<h3 class="section-title">Outline Demonstration</h3>
<div class="outline-demo-container">
  <div class="outline-box outline-dotted">
```

```
dotted outline  
</div>  
  
<div class="outline-box outline-dashed">  
    dashed outline  
</div>  
  
<div class="outline-box outline-solid">  
    solid outline  
</div>  
  
<div class="outline-box outline-positive-offset">  
    positive offset outline  
</div>  
  
<div class="outline-box outline-negative-offset">  
    negative offset outline  
</div>  
</div>
```

```
<!-- 6. auto vs initial -->  
  
<h3 class="section-title">auto vs initial (Height)</h3>  
  
<div class="auto-initial-container">  
    <div class="ai-box auto-box">  
        <strong>height: auto;</strong>  
        <p>  
            This box uses <code>height: auto;</code>, so its height automatically grows to fit  
            all of the content  
            without any internal scrolling. Add more text here to see that the box keeps  
            expanding in height as  
            necessary to show the full paragraph without clipping or scrollbars.  
        </p>  
    </div>
```

```
<div class="ai-box initial-box">  
  <strong>height: initial; (with max-height)</strong>  
  <p>
```

This box uses `height: initial;` combined with a `max-height` of 120px.

When the content becomes taller than 120px, the box stops growing and a vertical scrollbar appears.

This visually demonstrates the effect of a constrained height together with the initial value.

```
  </p>  
</div>  
</div>
```

```
<!-- 7. Rounded Outline -->
```

```
<div class="rounded-outline">
```

This element demonstrates a combination of `border-radius` and `outline` with

`outline-offset`. Even though the outline itself is not rounded, it visually follows

the rounded shape of the element and helps call attention to important information.

```
</div>
```

```
<!-- 4. Box Model Example (for calculation) -->
```

```
<h3 class="section-title">Box Model Example</h3>
```

```
<div class="box-model-example">
```

This box is configured exactly as in the calculation comment:

```
<code>width: 400px; padding: 20px; border: 5px solid black;</code>.
```

When using the default `content-box` box-sizing, its total width becomes 460px

(400px content + 40px padding + 10px border).

```
</div>  
</div>  
</body>  
</html>
```

Box model calculation from the code

For:

- **width:** 400px
- **padding:** 20px (left) + 20px (right) = 40px
- **border:** 5px (left) + 5px (right) = 10px

Total width *content + padding + border:*

$$400px + 40px + 10px = 460px$$

So, **the total box width = 460px.**

The screenshot shows a web browser window titled "Student Profile". The URL in the address bar is "C:/Users/Hriday/Desktop/8th%20sem/internship/FrontEnd/Phase%2001/CSS(Phase%2001)/Day%2020/Assignment/Ass%2001/Ass.htm". The page content is as follows:

ABC Institute of Technology

Student Profile

John Doe

Student Photo

USN: 1AB22CS001
Branch: Computer Science and Engineering
Email: john.doe@example.edu

John is a final-year Computer Science student with a strong interest in full-stack web development, open-source contributions, and cloud computing. He loves participating in coding competitions and hackathons and enjoys working on real-world projects that solve meaningful problems.

Outline Demonstration

Demonstrates five types of outlines: dotted outline, dashed outline, solid outline, positive offset outline (highlighted in pink), and negative offset outline.

auto vs initial (Height)

Two code snippets illustrate height behavior:

```
height: auto;
```

This box uses `height: auto;`, so its height automatically grows to fit all of the content without any internal scrolling. Add more text here to see that the box keeps expanding in height as necessary to show the full paragraph without clipping or scrollbars.

```
height: initial; (will max-height)
```

This box uses `height: initial;` combined with a `max-height` of 120px. When the content becomes taller than 120px, the box stops growing and a vertical scrollbar appears. This visually demonstrates the effect of a constrained height together with the initial value.

Outline Demonstration

Demonstrates the same five types of outlines as the first section.

auto vs initial (Height)

Two code snippets illustrate height behavior:

```
height: auto;
```

This box uses `height: auto;`, so its height automatically grows to fit all of the content without any internal scrolling. Add more text here to see that the box keeps expanding in height as necessary to show the full paragraph without clipping or scrollbars.

```
height: initial; (will max-height)
```

This box uses `height: initial;` combined with a `max-height` of 120px. When the content becomes taller than 120px, the box stops growing and a vertical scrollbar appears. This visually demonstrates the effect of a constrained height together with the initial value.

This element demonstrates a combination of border-radius and outline with outline-offset. Even though the outline itself is not rounded, it visually follows the rounded shape of the element and helps call attention to important information.

Box Model Example

This box is configured exactly as in the calculation comment: `width: 400px; padding: 20px; border: 5px solid black;`. When using the default content-box-sizing, its total width becomes 460px (400px content + 40px padding + 10px border).