Aim: To design a Web page using HTML 5 and stylise it using CSS3 – Background, Gradient, Opacity, Drop shadows, Transition, Transformation, Pseudo selectors and Pseudo element.

Results: (Program printout with output)

index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width,
initial-scale=1.0">
   <title>My Portfolio</title>
      <link rel="stylesheet" href="styles.css">
</head>
<body>

      <nav class="navbar">
      <a href="#" class="logo">My Portfolio</a>
    <ul>
      <li><a href="#about">About</a></li>
       <li><a href="#projects">Projects</a></li>
       <li><a href="#contact">Contact</a></li>
    </ul>
   </nav>

   <header>
      <h1>Welcome to My Portfolio</h1>
      <p>A simple webpage showcasing CSS properties</p>
   </header>

   <section id="about">
      <h2>About Me</h2>
      <p>Hello! I'm a web developer passionate about creating cool
projects.</p>
   </section>

   <section id="projects">
```

```html
    <h2>Projects</h2>
    <div class="project-card">
       <h3>Project 1</h3>
       <p>A cool project description.</p>
     </div>
    <div class="project-card">
       <h3>Project 2</h3>
       <p>Another cool project.</p>
    </div>
 </section>

 <section id="contact">
    <h2>Contact</h2>
    <p>Email: example@example.com</p>
     </section>

</body>
</html>
```

styles.css

```css
body {
   font-family: Arial, sans-serif;
   margin: 0;
   padding: 0;
   background: linear-gradient(to right, #002d5a, #0074D9);         /* color
gradient */
   color: white;
   text-align: center;
}

.navbar {
   display: flex;
   justify-content: space-between;
   background: rgba(0, 0, 0, 0.8);
   padding: 25px 25px;
   position: sticky;
   top: 0;
}

.navbar ul {
   list-style: none;
   padding: 0;
   margin: 0;
   display: flex;
}
```

```css
.navbar li {
    margin: 0 15px;
}

.navbar a {
    color: #00FFAA;
    text-decoration: none;
    font-weight: bold;
    transition: color 0.3s ease-in-out;   /* Transition */
}

.navbar a:hover {          /* pseudo-selector  */
    color: #33CCFF;
}

header {
    padding: 50px;
    background-color: rgba(0, 0, 0, 0.2);
}

section {
    padding: 40px 20px;
}

.project-card {
    background: rgba(255, 255, 255, 0.1);
    padding: 35px;
    margin: 15px auto;
    /* height: 135px; */
    width: 60%;
    border-radius: 20px;
    box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.3);          /* shadows */
    transition: transform 0.3s ease-in-out, background 0.3s ease-in-out;
    border-left: 5px solid #00FFAA;
}

.project-card:hover {
    transform: scale(1.05);     /* Transform */
    background: rgba(58, 255, 51, 0.534);
}

h2::after {   /* pseudo elements */
    content: " ↓";
    font-size: 30px;
    color: #00FFAA;
}

@media (max-width: 600px) {
```
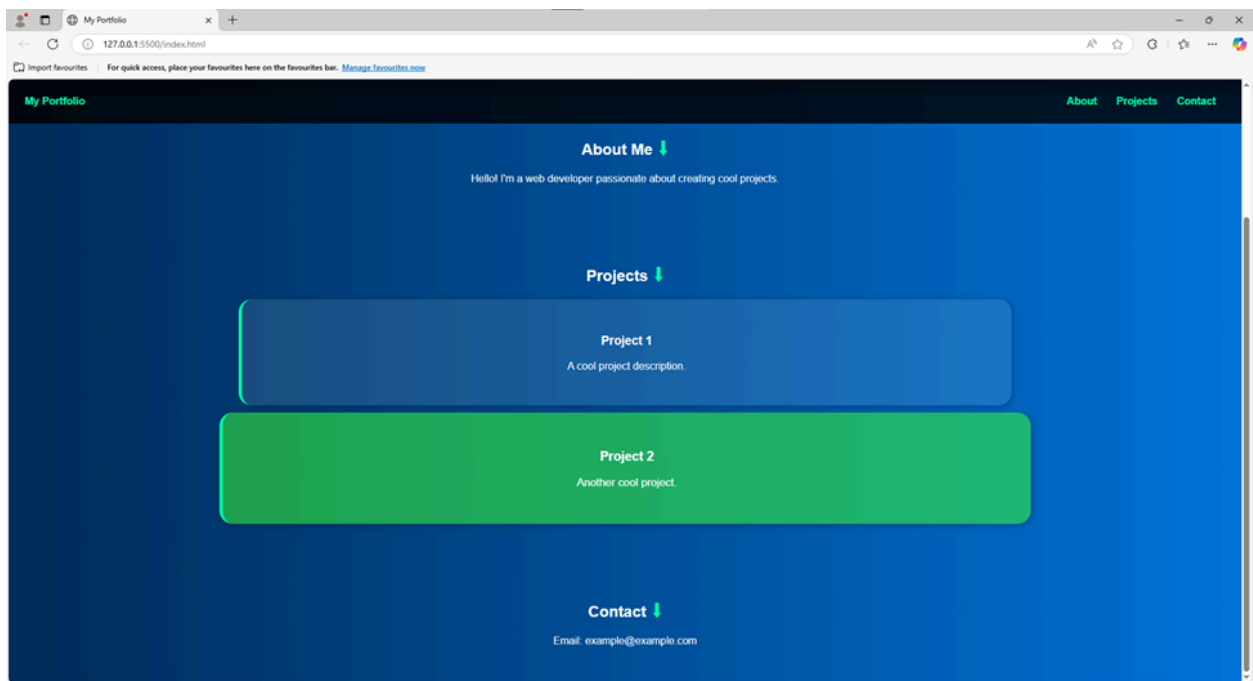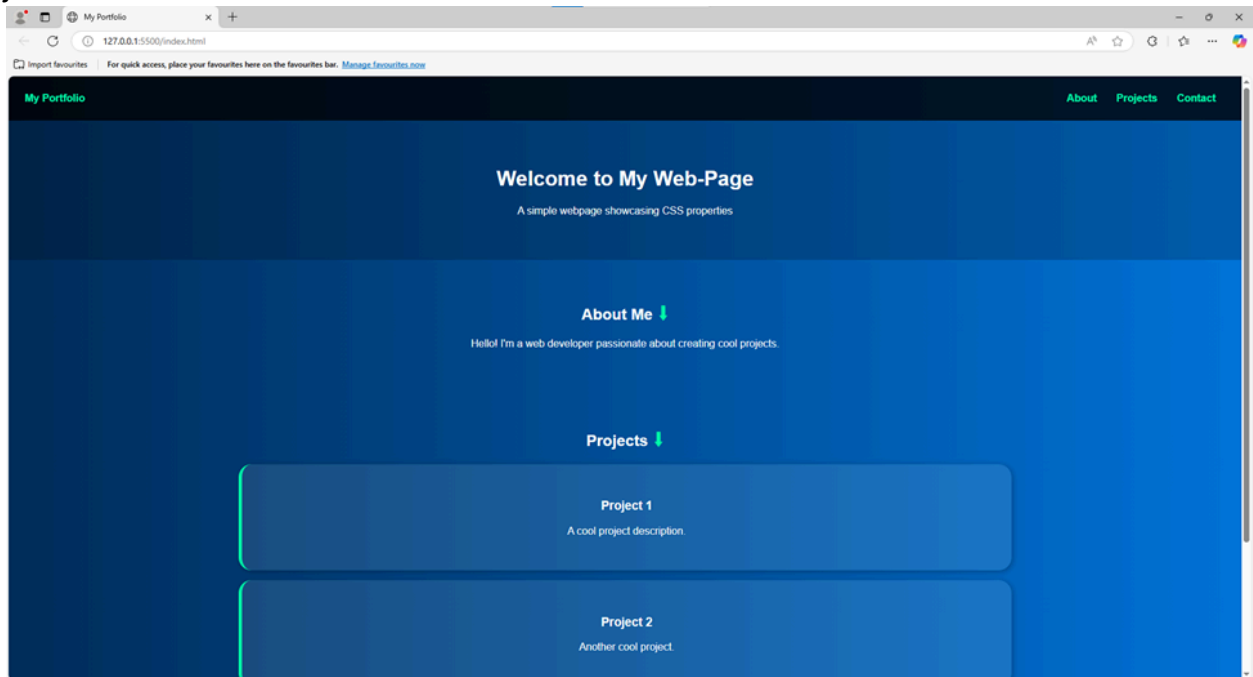
```
.project-card {
    width: 90%;
}
}
```

Outcomes: CO2: Create Web pages using HTML 5 and CSS

Conclusion: (Conclusion to be based on the outcomes achieved)

From this tutorial, I learned how to design a simple web page using HTML5 and CSS3. I used various CSS properties such as background colors, gradients, opacity, drop shadows, transitions, and transformations to enhance the visual appearance of the page. I also applied pseudo-selectors and pseudo-elements to add styling effects. By completing this assignment, I gained a better understanding of how to structure a webpage and style it effectively, making it more interactive and visually appealing.