HTML5_Day-3 Hands On Practice_ Uday

1) Problem Statement : Apply external CSS to style a webpage using selectors, text formatting, background, borders, margin, padding, and form design.
 HTML CODE :

   index.html :

```html
<!--HTML5_Day-3 Hands On -Uday -->

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>College Admission - Home</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

  <nav>
    <a href="index.html">Home</a>
    <a href="contact.html">Details</a>
  </nav>

  <section class="box">

    <h1 align="center">Welcome to JNTU Engg College</h1>
    <p>Apply for admission using our online registration form.</p>

    <h2>Admission Open 2026</h2>
    <p>Click on the contact page to fill the registration form.</p>

    <h2>About Our College</h2>
    <p>
      JNTU Engineering College is one of the top institutions providing
      Precious education in Engineering, Technology, and Management.
      We focus on academic excellence and practical knowledge.
    </p>

    <h2>Courses Offered</h2>
    <ul>
      <li>B.Tech – Computer Science</li>
      <li>B.Tech – Electronics & Communication</li>
      <li>B.Sc – Data Science</li>
      <li>BBA – Business Administration</li>
    </ul>

    <h2>Facilities</h2>
    <ul>
      <li>Digital Classrooms</li>
      <li>Central Library</li>
      <li>Hostel for Boys & Girls</li>
      <li>Sports & Gym</li>
      <li>100% Placement Assistance</li>
    </ul>

    <h2>Why You can Choose Us?</h2>
```

```
  <p>
    Experienced Faculty <br>
    Modern Laboratories <br>
    Industry Oriented Training <br>
    Excellent Placement Record
  </p>

</section>

<footer>
  <p>© 2026 JNTU Engineering College | All Rights Reserved</p>
</footer>

</body>
</html>
```

Contact.html :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>College Admission - Contact</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

  <nav>
    <a href="index.html">Home</a>
    <a href="contact.html">Contact</a>
  </nav>

  <div class="form-container">
    <h1>College Admission Form</h1>

    <form>
      <label>Full Name:</label>
      <input type="text" placeholder="Enter your name" required>

      <label>Email:</label>
      <input type="email" placeholder="Enter your email" required>

      <label>Password:</label>
      <input type="password" placeholder="Enter password" required>

      <label>Gender:</label>
      <div class="radio-group">
        <input type="radio" name="gender"> Female
        <input type="radio" name="gender"> Male
        <input type="radio" name="gender"> Any Other
      </div>

      <label>Select Course:</label>
      <select required>
        <option value="">--Choose Course--</option>
        <option>B.Tech</option>
        <option>B.Sc</option>
        <option>BCA</option>
```

```
      <option>BBA</option>
    </select>

    <input type="submit" value="Register">
  </form>
</div>

</body>
</html>
```

Style.css :

```css
/* Whole Page font styling */
body {
  font-family: Arial, sans-serif;
  background-color: #f2f2f2;
  margin: 0;
}

/* Navigation  */
nav {
  background-color: #004080;
  padding: 15px;
  text-align: center;
}

nav a {
  color: white;
  text-decoration: none;
  margin: 15px;
  font-weight: bold;
}

nav a:hover {
  color: yellow;
}

/* Text styling */
h1 {
  color: #004080;
}

h2 {
  color: #ff69b4;
}

p {
  font-size: 18px;
  color: #333;
}

/* Section with background, border */
.box {
  background-color: white;
  border: 3px solid #004080;
  margin: 40px;
```

```css
    padding: 20px;
    border-radius: 10px;
}

/* Form container with margin & padding */
.form-container {
    background-color: white;
    width: 350px;
    margin: 40px auto;
    padding: 25px;
    border: 2px solid #004080;
    border-radius: 10px;
}

/* Form styling */
form {
    display: flex;
    flex-direction: column;
}

input, select {
    padding: 8px;
    margin: 8px 0;
    border-radius: 5px;
    border: 1px solid gray;
}

input[type="submit"] {
    background-color: #004080;
    color: white;
    border: none;
    font-size: 16px;
}

input[type="submit"]:hover {
    background-color: #00264d;
}

/* Radio buttons */
.radio-group {
    margin: 10px 0;
}
```
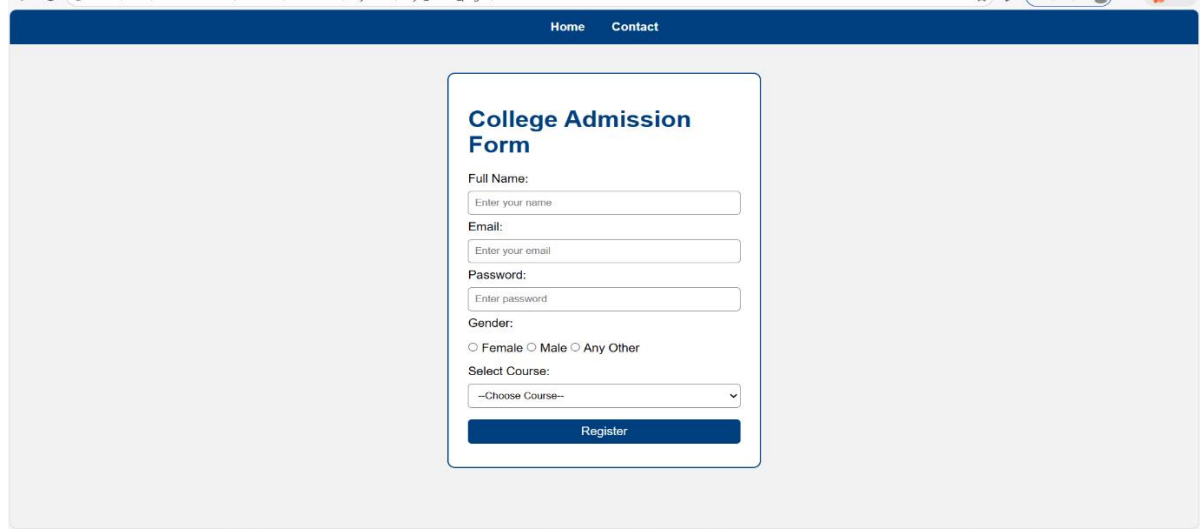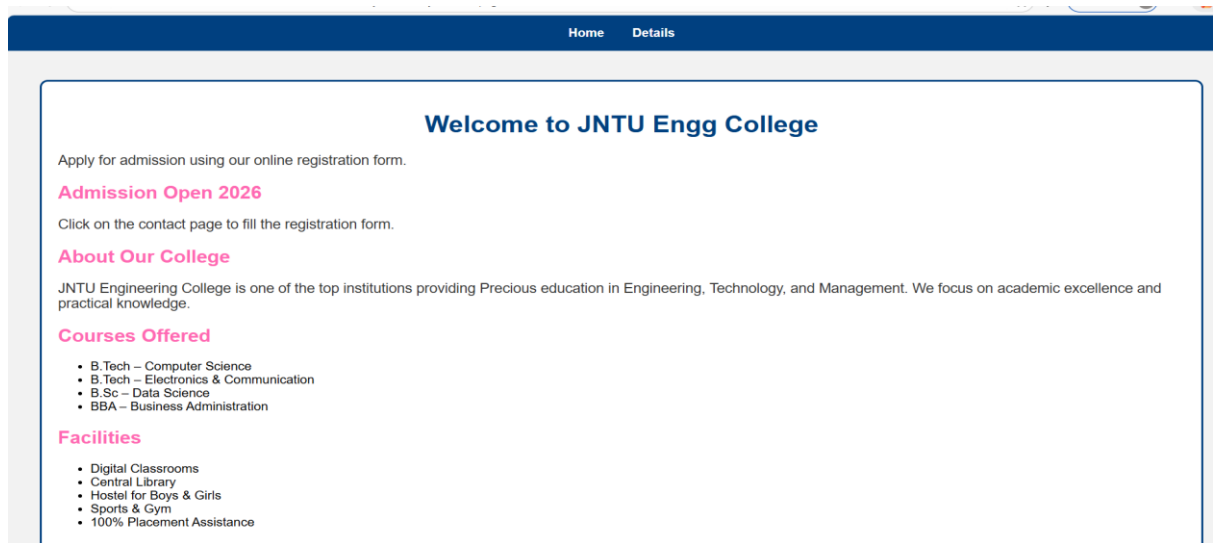
- **Technical Explanation** : Uses an external stylesheet with element and class selectors to apply typography, box model spacing, and visual styling.

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- **OUTPUT :**

2) Problem Statement : Design a personal profile card using HTML and CSS to apply typography, box model, colors, and button hover effects .

HTML CODE :

Index.html :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Personal Profile Card</title>
  <link rel="stylesheet" href="style.css">
```

```html
</head>
<body>

  <div class="card">

    <h1 class="name">Uday Kiran</h1>
    <h3 class="role">ECE Student | Web Developer</h3>

    <p class="bio">
      Passionate about building clean and responsive web interfaces.
      Strong interest in frontend design, problem solving, and creating
      user-friendly digital experiences.
    </p>

    <button class="btn">Contact Me</button>

  </div>

</body>
</html>
```

Style.css :

```css
/* Page styling */
body {
  background-color: #f4f6fb;
  font-family: 'Segoe UI', sans-serif;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}

/* Profile Card */
.card {
  background-color: white;
  width: 320px;
  padding: 25px;
  border: 2px solid #ddd;
  border-radius: 15px;
  margin: 20px;
  text-align: center;
}

/* Name */
.name {
  font-size: 26px;
  font-weight: bold;
  letter-spacing: 1px;
  color: #2c3e50;
}

/* Role */
.role {
```

```
    font-size: 16px;
    color: #ff4da6;
    margin-bottom: 15px;
    text-decoration: underline;
}

/* Bio */
.bio {
    font-size: 15px;
    line-height: 1.6;
    color: #555;
    margin-bottom: 20px;
}

/* Button */
.btn {
    background-color: #ff4da6;
    color: white;
    border: none;
    padding: 12px 25px;
    font-size: 15px;
    border-radius: 25px;
    cursor: pointer;
    font-weight: bold;
}

/* Hover Effect */
.btn:hover {
    background-color: #e60073;
    letter-spacing: 1px;
}
```
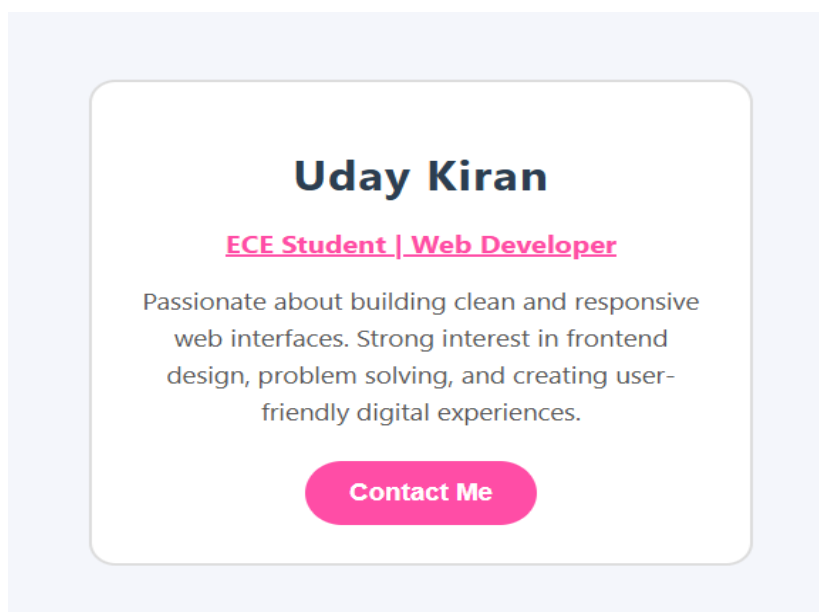
Technical Explanation : Uses CSS font properties, text formatting, padding, border, margin, background, border-radius, and pseudo-class hover for styling

OUTPUT:

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3) Problem Statement : Create a visually appealing product feature section using an unordered list and external CSS with selectors, custom fonts, colors, borders, padding, and hover effects.

Index.html :

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Product Features</title>

   <!-- Google Font -->
   <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;500&display=swap" rel="stylesheet">

   <!-- External CSS -->
   <link rel="stylesheet" href="style.css">
</head>
<body>

   <section class="features">
      <h2>Smart Watch Features</h2>

      <ul class="feature-list">
         <li>Heart Rate Monitor</li>
         <li>Sleep Tracking</li>
         <li>Water Resistant</li>
         <li>Call & Message Alerts</li>
         <li>Long Battery Life</li>
      </ul>
   </section>

</body>
</html>
```

style.css :

```css
/* Element selector */
body {
   font-family: 'Poppins', sans-serif;
   background-color: #f4f6f9;
}

/* Class selector */
.features {
   text-align: center;
   padding: 40px;
}

/* Descendant selector */
.features h2 {
   color: #2c3e50;
   margin-bottom: 20px;
}

/* Style the UL */
```
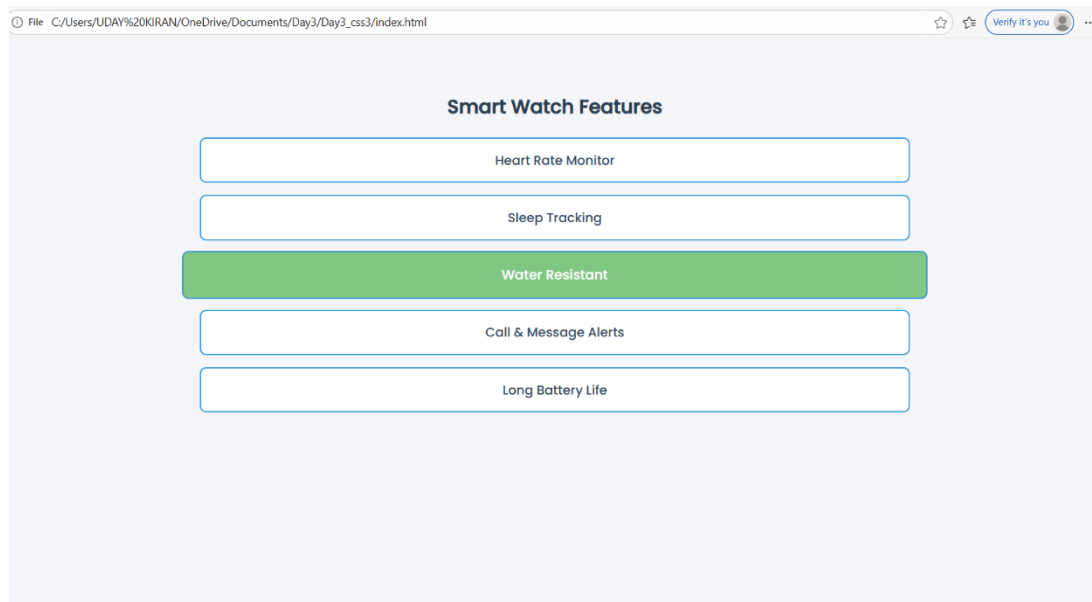
```
.feature-list {
   list-style-type: none;
   padding: 0;
}

/* Feature items */
.feature-list li {
   background-color: white;
   color: #34495e;
   margin: 15px auto;
   padding: 15px;
   width: 60%;
   border: 2px solid #3498db;
   border-radius: 8px;
   transition: 0.3s;
}

/* Hover effect */
.feature-list li:hover {
   background-color: #81c784;
   color: white;
   transform: scale(1.05);
}
```

Technical Explanation :

Implements element, class, and descendant selectors to style a <ul> with typography, background, box model properties, and pseudo-class hover for interactive UI.

OUTPUT:

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4) Problem Statement : Create a responsive blog homepage using HTML and CSS Grid with styled blog cards and media queries for different screen sizes.

- **HTML CODE :**

  Index.html :

```html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Responsive Blog</title>
 <link rel="stylesheet" href="style.css">
</head>
<body>

<header>
 <h1>Our Web Blog</h1>
</header>

<main class="blog-container">

 <article class="blog-card">
  <h2>Web Design </h2>
   <p>Everyone can Learn the core concepts of modern and responsive web design.For more content go through Read more</p>
   <button>Read More</button>
 </article>

 <article class="blog-card">
  <h2>CSS Grid Tutorial</h2>
  <p>Build flexible layouts easily using CSS Grid system.</p>
  <button>Read More</button>
 </article>

 <article class="blog-card">
  <h2>Flexbox Guide</h2>
  <p>Align and distribute space efficiently with Flexbox.</p>
  <button>Read More</button>
 </article>

 <article class="blog-card">
  <h2>Media Queries</h2>
  <p>Make your website fully responsive for all devices.</p>
  <button>Read More</button>
 </article>

</main>

</body>
</html>
```
Style.css :

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```css
/* Page styling */
body {
  margin: 0;
  font-family: Arial, sans-serif;
  background: #f4f4f4;
}

/* Header */
header {
  background: #2e7d32;
  color: white;
  text-align: center;
  padding: 1.5rem;
}

/* Blog layout using GRID */
.blog-container {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  gap: 20px;
  padding: 20px;
}

/* Blog card */
.blog-card {
  background: white;
  border: 1px solid #ddd;
  padding: 15px;
  border-radius: 8px;
}

/* Typography */
.blog-card h2 {
  margin-top: 0;
  color: #2e7d32;
}

.blog-card p {
  line-height: 1.6;
  color: #555;
}

/* Button */
button {
  background: #2e7d32;
  color: white;
  border: none;
  padding: 10px;
  margin-top: 10px;
  cursor: pointer;
}

button:hover {
  background: #1b5e20;
}
```
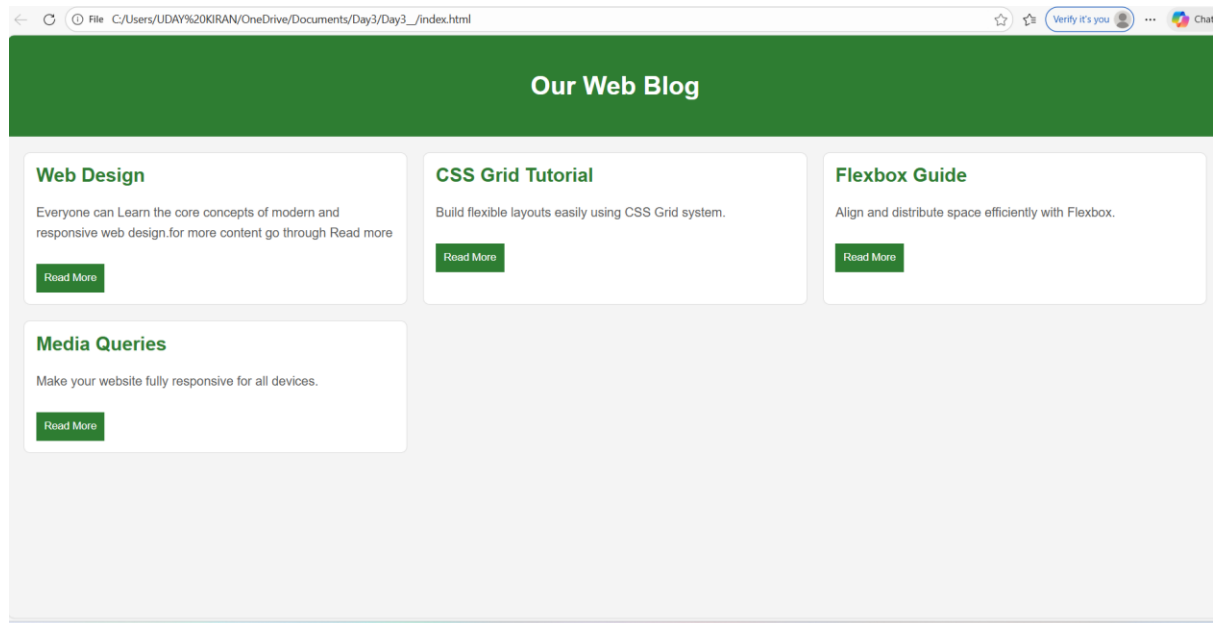
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```css
/* Tablet */
@media (max-width: 900px) {
 .blog-container {
   grid-template-columns: repeat(2, 1fr);
 }
}

/* Mobile */
@media (max-width: 600px) {
 .blog-container {
   grid-template-columns: 1fr;
 }
}
```

- **Technical Explanation :**

Uses CSS Grid, box model spacing, typography, flexible units, and media queries to build a multi-column responsive layout.

- **OUTPUT:**

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5) Problem Statement : Create a responsive admin dashboard layout using HTML and CSS Flexbox with a sidebar, main content, and adaptive info cards.

HTML CODE :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Responsive Dashboard</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

<div class="dashboard">

  <!-- Sidebar -->
  <nav class="sidebar">
   <h2>Admin Panel</h2>
   <ul>
    <li>Dashboard</li>
    <li>Users</li>
    <li>Orders</li>
    <li>Reports</li>
    <li>Settings</li>
   </ul>
  </nav>

  <!-- Main Content -->
  <main class="main-content">

   <header class="top-header">
    <h1>Dashboard</h1>
   </header>

   <section class="cards">

    <div class="card">
     <h3>Total Users</h3>
     <p>180</p>
    </div>

    <div class="card">
     <h3>Total Orders</h3>
     <p>320</p>
    </div>

    <div class="card">
     <h3>Total Revenue</h3>
     <p>₹90,000</p>
    </div>

    <div class="card">
     <h3>Feedback</h3>
     <p>87</p>
    </div>
```

```
  </section>

 </main>

</div>

</body>
</html>
```

Style.css :

```css
/* Reset */
body {
  margin: 0;
  font-family: Arial, sans-serif;
}

/* Main layout using Flexbox */
.dashboard {
  display: flex;
  min-height: 100vh;
}

/* Sidebar */
.sidebar {
  background: #2e7d32;
  color: white;
  padding: 20px;
  flex: 1;
}

.sidebar ul {
  list-style: none;
  padding: 0;
}

.sidebar li {
  margin: 15px 0;
}

/* Main content */
.main-content {
  flex: 4;
  background: #f1f8e9;
  padding: 20px;
}

/* Header inside main */
.top-header {
  margin-bottom: 20px;
}

/* Cards layout */
.cards {
  display: flex;
```

```
 flex-wrap: wrap;
 gap: 20px;
}

/* Individual card */
.card {
 background: white;
 border: 1px solid #ccc;
 padding: 20px;
 flex: 1 1 200px;
 border-radius: 8px;
 text-align: center;
}

/*  Mobile View */
@media (max-width: 768px) {

 .dashboard {
  flex-direction: column;
 }

 /* Sidebar becomes top navbar */
 .sidebar {
  text-align: center;
 }

 .sidebar ul {
  display: flex;
  justify-content: space-around;
 }

 .sidebar li {
  margin: 0;
 }

 /* Cards stacked */
 .cards {
  flex-direction: column;
 }

}
```

- **Technical Explanation :**
  Uses Flexbox, box model spacing, flexible units, and media queries to transform a sidebar layout into a mobile-friendly top navigation with stacked cards.

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OUTPUT :