Lab # 1

HTML and CSS Fundamentals

OBJECTIVE

To get familiar with HTML, and CSS fundamentals.

LAB TASK

Task#1

Create a website that at minimum satisfies the following requirements:

- It should include different HTML elements e.g. headings, paragraph(s), lists, images, text hyperlinks, image hyperlinks, bookmarks, image maps, tables, text formatting, forms, etc.

- It should include appropriate and rich content such as short biography, education and training courses, projects that you have a major role in it, summer training, skills, and useful web links, contacts, etc.

- Be consistent in all styles and make it user-friendly with an appealing layout.

- You can use any style of CSS like Inline CSS, External CSS, or Inpage CSS.

SOLUTION:

```html
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>My Portfolio</title>
7       <link rel="stylesheet" href="styles.css">
8   </head>
9   <body>
10
11      <header>
12          <h1>Welcome to My Portfolio</h1>
13          <nav>
14              <ul>
15                  <li><a href="#about">About</a></li>
16                  <li><a href="#education">Education</a></li>
17                  <li><a href="#projects">Projects</a></li>
18                  <li><a href="#skills">Skills</a></li>
19                  <li><a href="#contact">Contact</a></li>
20              </ul>
21          </nav>
22      </header>
23
24      <section style="display: flex;" id="about">
25          <div class="col1">
26          <h2>About Me</h2>
27          <p>Hello! I am an aspiring web developer with a passion for coding and problem-solving.</p>
28      </div>
29      <div class="col2" style="display: contents;">
30              <img src="assets/myImage.jpg" alt="My Profile Photo" class="profile-img">
31      </div>
32      </section>
33
34      <section id="education">
35          <h2>Education & Training</h2>
36          <ul>
37              <li>Bachelor's in Software Engineering - Sir Syed University</li>
38              <li> Web Developer - Xevens Solutions</li>
39          </ul>
40      </section>
41
42      <section id="projects">
43          <h2>Projects</h2>
44          <div class="project">
45              <img src="assets/proj2.PNG" alt="Project 1">
46              <p><strong>Portfolio Website</strong> - A personal portfolio showcasing my skills.</p>
47          </div>
48          <div class="project">
49              <img src="assets/proj1.PNG" alt="Project 2">
50              <p><strong>E-commerce Website</strong> - Developed a fully functional online store.</p>
51          </div>
52      </section>
53
```

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```html
54    <section id="skills">
55        <h2>Skills</h2>
56        <ul>
57            <li>HTML, CSS, JavaScript</li>
58            <li>React.js, Next.js</li>
59            <li>Python, Django</li>
60        </ul>
61    </section>
62
63    <section id="contact">
64        <h2>Contact Me</h2>
65        <form>
66            <label for="name">Name:</label>
67            <input type="text" id="name" required>
68
69            <label for="email">Email:</label>
70            <input type="email" id="email" required>
71
72            <label for="message">Message:</label>
73            <textarea id="message" rows="4" required></textarea>
74
75            <button type="submit">Send</button>
76        </form>
77    </section>
78
79    <footer>
80        <p>&copy; 2025 My Portfolio. All rights reserved.</p>
81    </footer>
82
83 </body>
84 </html>
85
```
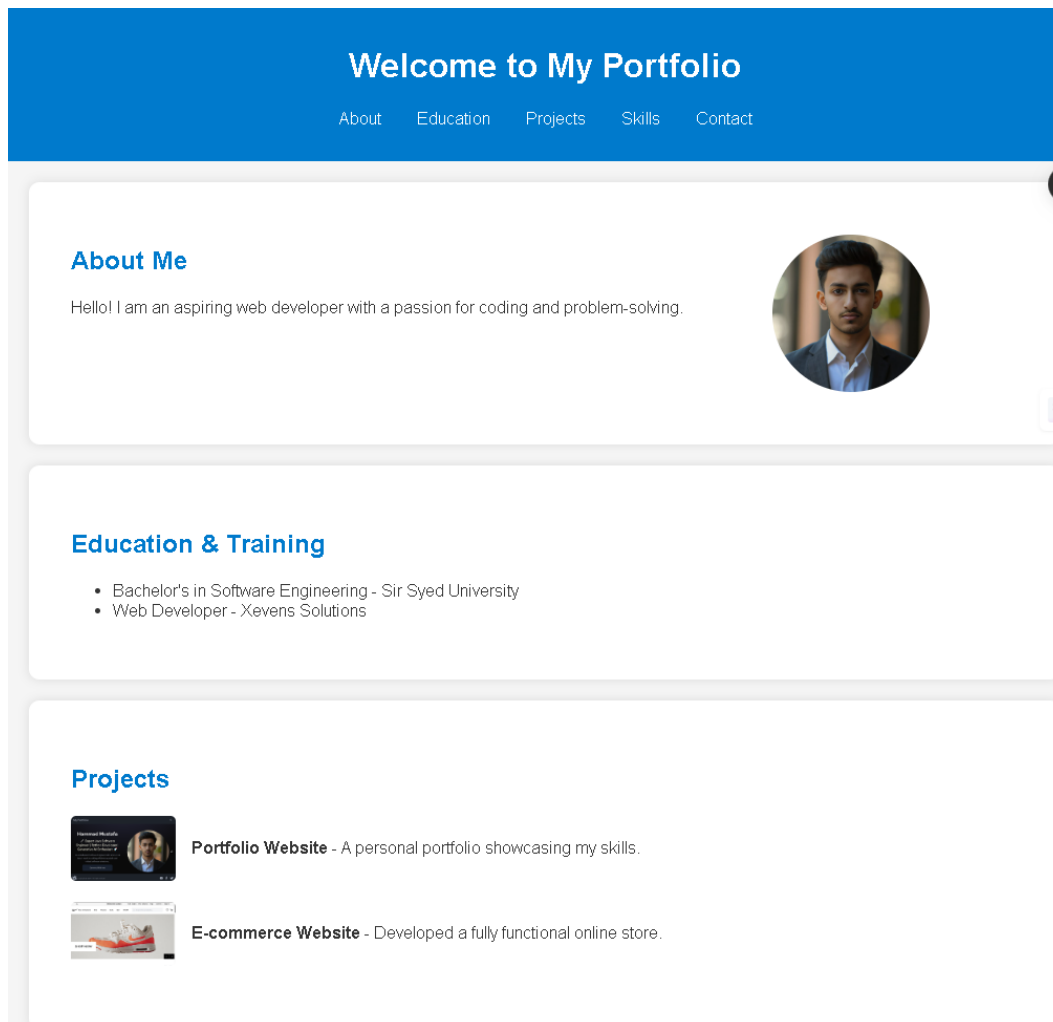
2)Styles.css

```css
1    /* General Styles */
2    body {
3        font-family: Arial, sans-serif;
4        margin: 0;
5        padding: 0;
6        background-color: #f5f5f5;
7        color: #333;
8    }
9
10   /* Header */
11   header {
12       background-color: #007acc;
13       color: white;
14       text-align: center;
15       padding: 15px;
16   }
17
18   nav ul {
19       list-style: none;
20       padding: 0;
21   }
22
23   nav ul li {
24       display: inline;
25       margin: 0 15px;
26   }
27
28   nav ul li a {
29       color: white;
30       text-decoration: none;
```

```css
31    }
32
33    /* Sections */
34    section {
35        padding: 40px;
36        background: white;
37        margin: 20px;
38        border-radius: 10px;
39        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
40    }
41
42    h2 {
43        color: #007acc;
44    }
45
46    /* Profile Image */
47    .profile-img {
48        width: 150px;
49        border-radius: 50%;
50        display: block;
51        margin: 10px auto;
52    }
53
54    /* Projects */
55    .project {
56        display: flex;
57        align-items: center;
58        margin-bottom: 20px;
59    }
60
61    .project img {
62        width: 100px;
63        margin-right: 15px;
64        border-radius: 5px;
65    }
66
67    /* Form */
68    form {
69        display: flex;
70        flex-direction: column;
71    }
72
73    form label {
74        margin: 5px 0;
75    }
76
77    form input, form textarea {
78        padding: 8px;
79        margin-bottom: 10px;
80        border: 1px solid #ccc;
81        border-radius: 5px;
82    }
83
84    form button {
85        background-color: #007acc;
86        color: white;
```

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```css
87        padding: 10px;
88        border: none;
89        cursor: pointer;
90    }
91
92    /* Footer */
93  ∨ footer {
94        text-align: center;
95        padding: 10px;
96        background-color: #007acc;
97        color: white;
98    }
```

OUTPUT:

Welcome to My Portfolio

About   Education   Projects   Skills   Contact

About Me

Hello! I am an aspiring web developer with a passion for coding and problem-solving.

Education & Training

- Bachelor's in Software Engineering - Sir Syed University
- Web Developer - Xevens Solutions

Projects

Portfolio Website - A personal portfolio showcasing my skills.

E-commerce Website - Developed a fully functional online store.

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Skills

- HTML, CSS, JavaScript
- React.js, Next.js
- Python, Django

Contact Me

Name:

Email:

Message:

Send

Task#2:

Use HTML and CSS to create your own personal resume, using the following example as a template.
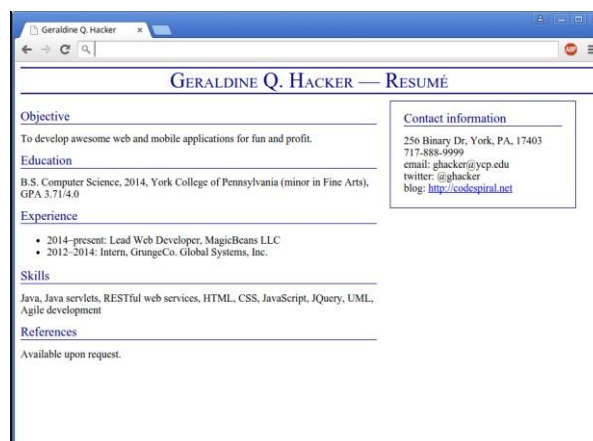
- The text in the page title should be rendered in small caps.

- The page title and the text of section headers should be dark blue.
- The resume should have a title running across the top (with dark blue bars above and below).
- The content area should be to the left and the sidebar (contact info) should be to the right.
- Use div and span elements with id and class attributes to specify the body of the HTML document.
- All visual styling should be done separately in CSS rules.

1)index.html:

```html
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>My Resume</title>
7      <link rel="stylesheet" href="styles.css">
8  </head>
9  <body>
10
11     <!-- Resume Header -->
12     <header>
13         <div class="title-bar"></div>
14         <h1>My Resume</h1>
15         <div class="title-bar"></div>
16     </header>
17
18     <div class="container">
19         <!-- Left Content Section -->
20         <main id="content">
21             <section>
22                 <h2>Summary</h2>
23                 <p>A passionate web developer with expertise in HTML, CSS, JavaScript, and modern frameworks.</p>
24             </section>
25
26             <section>
27                 <h2>Education</h2>
```

```html
27                 <h2>Education</h2>
28                 <p><strong>Bachelor's in Software Engineering</strong><br>Sir Syed University - Graduated: 2025</p>
29             </section>
30
31             <section>
32                 <h2>Experience</h2>
33                 <p><strong>Frontend Developer</strong><br>Xevens Solutions - 2023-Present</p>
34                 <ul>
35                     <li>Developed and maintained web applications.</li>
36                     <li>Worked with React.js and Tailwind CSS.</li>
37                 </ul>
38             </section>
39
40             <section>
41                 <h2>Skills</h2>
42                 <ul>
43                     <li>HTML, CSS, JavaScript</li>
44                     <li>React.js, Next.js</li>
45                     <li>Python, Django</li>
46                 </ul>
47             </section>
```

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```html
49          <section>
50              <h2>Projects</h2>
51              <p><strong>Portfolio Website</strong> - Designed a personal portfolio using Next.js and Tailwind CSS.</p>
52              <p><strong>E-commerce Platform</strong> - Developed an online store with product filtering and payment
                integration.</p>
53          </section>
54        </main>
55
56        <!-- Right Sidebar -->
57        <aside id="sidebar">
58            <h2>Contact</h2>
59            <p><strong>Email:</strong>hammad@example.com</p>
60            <p><strong>Phone:</strong> 123456678</p>
61            <p><strong>LinkedIn:</strong> linkedin.com/hamad-mustafa</p>
62            <p><strong>GitHub:</strong> github.com/hammadii1234</p>
63        </aside>
64      </div>
65
66  </body>
67  </html>
```

style.css:

```css
1    /* General Styles */
2    body {
3        font-family: Arial, sans-serif;
4        margin: 0;
5        padding: 0;
6        background-color: #f5f5f5;
7        color: #333;
8    }
9
10   /* Header Styles */
11   header {
12       text-align: center;
13       background-color: white;
14       padding: 20px;
15   }
16
17   h1 {
18       font-size: 28px;
19       color: darkblue;
20       text-transform: small-caps;
21       margin: 10px 0;
22   }
23
24   .title-bar {
25       height: 5px;
26       background-color: darkblue;
27       margin: 5px 0;
28   }
29
```

```css
31    .container {
32        display: flex;
33        max-width: 900px;
34        margin: 20px auto;
35        background: □white;
36        padding: 20px;
37        border-radius: 10px;
38        box-shadow: 0 0 10px □rgba(0, 0, 0, 0.1);
39    }
40
41    /* Content Section */
42    #content {
43        width: 70%;
44        padding-right: 20px;
45    }
46
47    /* Sidebar */
48    #sidebar {
49        width: 30%;
50        background: □#e0e0e0;
51        padding: 20px;
52        border-radius: 5px;
53    }
54
55    h2 {
56        color: ■darkblue;
57        border-bottom: 2px solid ■darkblue;
58        padding-bottom: 5px;
59    }
60
61  ∨ ul {
62        list-style: square;
63        padding-left: 20px;
64    }
65
66  ∨ p {
67        line-height: 1.5;
68    }
69
70    /* Responsive Design */
71  ∨ @media (max-width: 768px) {
72  ∨     .container {
73            flex-direction: column;
74        }
75
76  ∨     #content, #sidebar {
77            width: 100%;
78            padding: 10px;
79        }
80    }
81
```

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OUTPUT:

My Resume

Summary

A passionate web developer with expertise in HTML, CSS, JavaScript, and modern frameworks.

Education

Bachelor's in Software Engineering
Sir Syed University - Graduated: 2025

Experience

Frontend Developer
Xevens Solutions - 2023-Present

- Developed and maintained web applications.
- Worked with React.js and Tailwind CSS.

Skills

- HTML, CSS, JavaScript
- React.js, Next.js
- Python, Django

Projects

Portfolio Website - Designed a personal portfolio using Next.js and Tailwind CSS.

E-commerce Platform - Developed an online store with product filtering and payment integration.

Contact

Email:hammad@example.com

Phone: 123456678

LinkedIn: linkedin.com/hamad-mustafa

GitHub:
github.com/hammadii1234

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