

**Batch: E-2      Roll No.: 16010123325**

**Experiment No. 02**

**Grade: AA / AB / BB / BC / CC / CD /DD**

**Signature of the Staff In-charge with date**

**TITLE: Develop and demonstrate the usage of inline, internal and external style sheet using CSS**

**AIM:** To demonstrate the CSS.

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**Expected Outcome of Experiment:** Use CSS to prepare the layout of web pages.

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**Books/ Journals/ Websites referred:**

1. <https://www.w3schools.com/css/>
-

CSS :

### Internal CSS

```
<style>
  body {
    font-family: 'Poppins', sans-serif;
    margin: 0;
    padding: 0;
    box-sizing: border-box;
  }
  .container {
    width: 80%;
    margin: 0 auto;
  }
  header {
    background-color: #333;
    color: #fff;
    padding: 1rem 0;
  }
  header h1 {
    margin: 0;
  }
</style>
<button type="submit">Register</button>
</form>
</div>
</section>
</main>
```

### External CSS

```
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: 'Poppins', sans-serif;
  line-height: 1.6;
  color: #333;
  background-color: #f0f4f8;
}

.container {
```

```
width: 90%;  
max-width: 1200px;  
margin: 0 auto;  
padding: 0 20px;  
}  
  
header {  
background: #2c3e50;  
padding: 1rem 0;  
position: fixed;  
width: 100%;  
top: 0;  
z-index: 1000;  
box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);  
}  
  
header .container {  
display: flex;  
justify-content: space-between;  
align-items: center;  
}  
  
header h1 {  
color: #ecf0f1;  
font-size: 2rem;  
font-weight: 600;  
}  
  
nav {  
display: flex;  
gap: 1rem;  
}  
  
.nav-link {  
color: #ecf0f1;  
text-decoration: none;  
padding: 0.5rem 1rem;  
border-radius: 5px;  
transition: background-color 0.3s ease, color 0.3s ease;  
}  
  
.nav-link:hover,  
.nav-link.active {  
background-color: #34495e;
```

```
        color: #3498db;
    }

main {
    padding-top: 5rem;
    min-height: calc(100vh - 5rem - 60px);
}

section {
    display: none;
    padding: 4rem 0;
}

section.active {
    display: block;
    animation: fadeIn 0.5s ease-in-out;
}

@keyframes fadeIn {
    from { opacity: 0; transform: translateY(20px); }
    to { opacity: 1; transform: translateY(0); }
}

h2 {
    font-size: 2.5rem;
    margin-bottom: 2rem;
    color: #2c3e50;
    text-align: center;
}

.hero {
    background: linear-gradient(135deg, #3498db, #8e44ad);
    color: #fff;
    text-align: center;
    padding: 6rem 2rem;
    border-radius: 10px;
    box-shadow: 0 4px 15px rgba(0, 0, 0, 0.1);
}

.hero h2 {
    font-size: 3rem;
    margin-bottom: 1rem;
    color: #fff;
}
```

```
.hero p {
    font-size: 1.2rem;
    max-width: 600px;
    margin: 0 auto 2rem;
}

.cta-button {
    display: inline-block;
    padding: 0.75rem 1.5rem;
    background-color: #2ecc71;
    color: #fff;
    text-decoration: none;
    border-radius: 30px;
    font-size: 1rem;
    transition: all 0.3s ease;
    border: none;
    cursor: pointer;
}

.cta-button:hover {
    background-color: #27ae60;
    transform: translateY(-3px);
    box-shadow: 0 4px 10px rgba(0, 0, 0, 0.2);
}

.table-container {
    background: #fff;
    border-radius: 10px;
    overflow: hidden;
    box-shadow: 0 4px 15px rgba(0, 0, 0, 0.1);
}

table {
    width: 100%;
    border-collapse: collapse;
}

th, td {
    padding: 1rem;
    text-align: left;
    border-bottom: 1px solid #ecf0f1;
}
```

```
thead {
    background: #34495e;
    color: #ecf0f1;
}

tbody tr:hover {
    background: #f8f9fa;
}

.in-stock {
    color: #2ecc71;
}

.out-of-stock {
    color: #e74c3c;
}

.auth-form {
    max-width: 400px;
    margin: 0 auto;
    background: #fff;
    padding: 2rem;
    border-radius: 10px;
    box-shadow: 0 4px 15px rgba(0, 0, 0, 0.1);
}

.form-group {
    margin-bottom: 1rem;
}

label {
    display: block;
    margin-bottom: 0.5rem;
    color: #34495e;
}

input[type="text"],
input[type="email"],
input[type="password"] {
    width: 100%;
    padding: 0.75rem;
    border: 1px solid #bdc3c7;
    border-radius: 5px;
    font-size: 1rem;
```

```
        transition: border-color 0.3s ease;
    }

input[type="text"]:focus,
input[type="email"]:focus,
input[type="password"]:focus {
    outline: none;
    border-color: #3498db;
}

button[type="submit"] {
    width: 100%;
    padding: 0.75rem;
    background: #3498db;
    color: #fff;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    font-size: 1rem;
    transition: background 0.3s ease;
}

button[type="submit"]:hover {
    background: #2980b9;
}

.checkbox-label {
    display: flex;
    align-items: center;
    user-select: none;
}

.checkbox-label input {
    margin-right: 0.5rem;
}

.form-footer {
    margin-top: 1rem;
    text-align: center;
}

.forgot-password {
    color: #3498db;
    text-decoration: none;
```

```
}

.forgot-password:hover {
    text-decoration: underline;
}

footer {
    background: #2c3e50;
    color: #ecf0f1;
    text-align: center;
    padding: 1rem 0;
    position: relative;
    bottom: 0;
    width: 100%;
}

@media (max-width: 768px) {
    header .container {
        flex-direction: column;
        align-items: flex-start;
    }

    nav {
        margin-top: 1rem;
    }

    .hero h2 {
        font-size: 2.5rem;
    }

    .table-container {
        overflow-x: auto;
    }

    table {
        font-size: 0.9rem;
    }
}

@media (max-width: 480px) {
    .hero {
        padding: 4rem 1rem;
    }
}
```

```
.hero h2 {  
    font-size: 2rem;  
}  
  
.auth-form {  
    padding: 1.5rem;  
}  
}
```

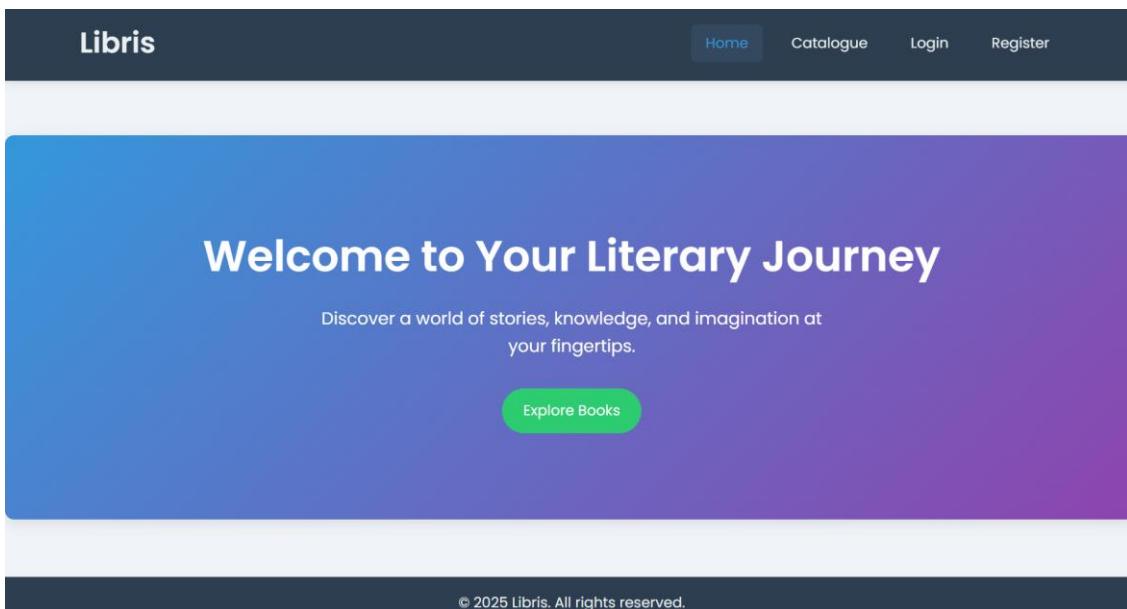
### **Inline CSS**

```
<input type="text" id="register-firstname" name="first_name" required>  
</div>  
<div class="form-group" style="margin-bottom: 1rem;"></div>  
    <label for="register-lastname" style="display: block; margin-bottom: 0.5rem;">Last Name</label>  
    <input type="text" id="register-lastname" name="last_name" required style="width: 100%; padding: 0.5rem;">  
</div>  
<div class="form-group">  
    <label for="register-email">Email</label>  
    <input type="email" id="register-email" name="email" required>  
</div>  
<div class="form-group">  
    <label for="register-password">Password</label>  
    <input type="password" id="register-password" name="password" required>
```

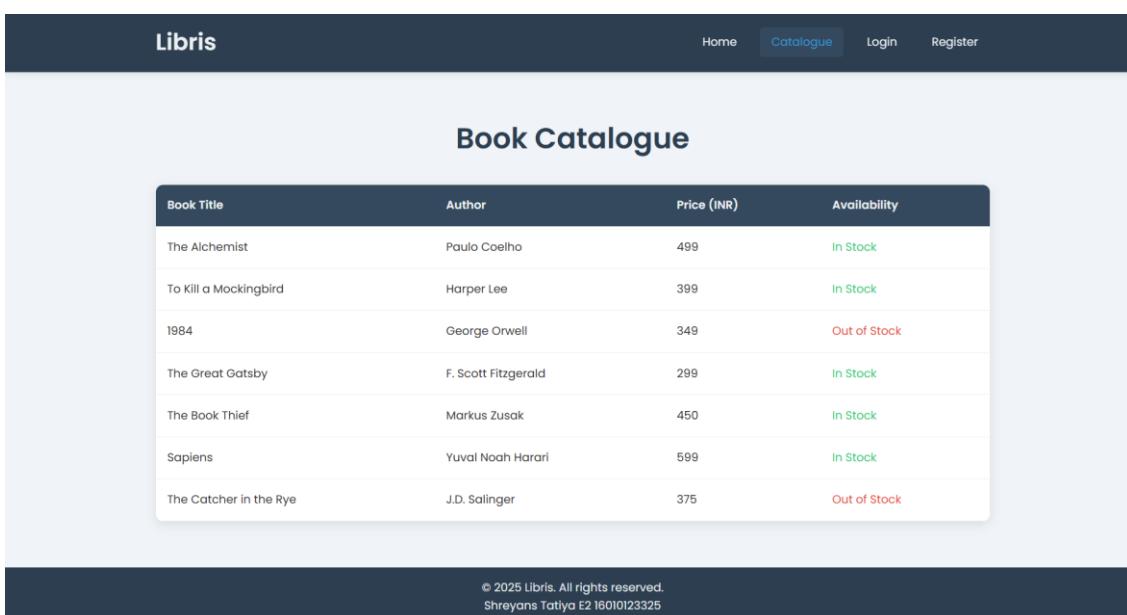
### **Description of the application implemented with output:**

The Book Shop Website is a user-friendly application designed to provide an intuitive experience for users to browse, register, login. It includes the following functionalities:

1. **Home Page**
2. **Login Page**
3. **Catalogue Page**
4. **Registration Page**



The Libris homepage features a dark blue header with the word "Libris" in white. Below the header is a large blue-to-purple gradient banner with the text "Welcome to Your Literary Journey". Underneath the banner, a subtext reads "Discover a world of stories, knowledge, and imagination at your fingertips." A green button labeled "Explore Books" is centered on the banner. At the bottom of the page is a dark footer bar containing the copyright notice "© 2025 Libris. All rights reserved."



The Book Catalogue page has a dark blue header with "Libris" and navigation links for "Home", "Catalogue" (which is highlighted in blue), "Login", and "Register". The main content area is titled "Book Catalogue" and displays a table of books:

Book Title	Author	Price (INR)	Availability
The Alchemist	Paulo Coelho	499	In Stock
To Kill a Mockingbird	Harper Lee	399	In Stock
1984	George Orwell	349	Out of Stock
The Great Gatsby	F. Scott Fitzgerald	299	In Stock
The Book Thief	Markus Zusak	450	In Stock
Sapiens	Yuval Noah Harari	599	In Stock
The Catcher in the Rye	J.D. Salinger	375	Out of Stock

The footer of the page includes the copyright notice "© 2025 Libris. All rights reserved." and the identifier "Shreyans Tatyaa E2 16010123325".

**Libris**

Home Catalogue **Login** Register

## Login

Username

Password

Remember me

**Login**

[Forgot password?](#)

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**Libris**

Home Catalogue **Login** Register

## Register

First Name

Last Name

Email

Password

Confirm Password

**Register**

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### **Post Lab Objective with Answer**

- **What is the Box model in CSS?**

The Box Model in CSS describes how HTML elements are rendered in terms of space and layout. Each element is represented as a rectangular box comprising the following layers :

1. **Content:** The area where text, images, or other content appear.
2. **Padding:** Space between the content and the element's border.
3. **Border:** Surrounds the padding; the thickness and style can be set.
4. **Margin:** Space outside the border separating the element from other elements.

- **What are the advantages of using CSS?**

1. **Separation of Content:** Allows separation of content (HTML) and presentation (CSS).
2. **Consistency:** Ensures a uniform design across multiple pages with a single stylesheet.
3. **Reusability:** Styles can be reused across multiple HTML elements and pages.
4. **Flexibility:** Easily adaptable to changes; updating a CSS file reflects across all linked documents.
5. **Responsive Design:** Allows creating layouts that adapt to different devices and screen sizes.

- **What are the limitations of CSS?**

1. **Browser Compatibility:** Styles may render differently in various browsers.
2. **No Logic:** CSS lacks programming constructs like loops, conditions, or variables.
3. **Dependency:** Relies on HTML structure, which can limit flexibility in certain designs.
4. **Over-Specificity:** Excessive use of specific selectors can complicate the styling process.
5. **Limited Interactivity:** Pure CSS is unsuitable for dynamic behavior (like logic-based interactions).

- **What are the different types of Selectors in CSS?**

1. **Universal Selector (\*)**: Targets all elements.
2. **Type Selector**: Matches specific element tags.
3. **Class Selector (.classname)**: Matches elements with a specific class.
4. **ID Selector (#id)**: Matches an element with a specific ID.
5. **Group Selector**: Applies the same styles to multiple elements.

**Date:**

**Signature of faculty in-charge**