

Lab 3

Objectives:

The objectives of the above three tasks focus on enhancing web development skills through practical application of HTML and CSS. The first task aims to design a structured layout for an e-commerce website using external CSS for better styling and organization. The second task emphasizes creating a visually appealing and well-structured table using only div elements, leveraging internal CSS for effective formatting. The third task involves crafting a user-friendly form using external CSS, encouraging customization of colors and fonts to create an aesthetically pleasing design. Overall, these tasks aim to strengthen knowledge of CSS integration and its role in creating professional web designs.

Q.1. Create the following layout for your ecommerce website using external CSS.



HTML Tag Attributes

1. `<!DOCTYPE html>`: Declares the document as HTML5.
2. `<html lang="en">`: Sets the document language to English.
3. `<title>`: Displays the page title in the browser tab.
4. `<link rel="stylesheet" href="ecommerce.css">`: Links an external CSS file.
5. `<header class="navigation">`: Defines the header section with a "navigation" class.
6. `<div class="container">`: Creates a container for layout structure.
7. `<aside class="advertisement left">`: Adds a left advertisement section.
8. `<main class="product-grid">`: Contains the main product grid layout.
9. `<aside class="advertisement right">`: Adds a right advertisement section.
10. `<div class="product">`: Represents individual product items.

CSS Attributes

1. `*`: Resets margins, padding, and box-sizing.
2. `body`: Sets the font to Arial for the document.
3. `.navigation`: Styles the navigation bar with color, alignment, and borders.
4. `.container`: Defines a flex container with spacing.
5. `.advertisement`: Styles advertisement sections with color, width, and alignment.
6. `.product-grid`: Creates a grid layout for products with spacing and styling.

7. .product: Styles products with color, padding, and text alignment.

Source Code:

ecommerce.html:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <title>E-commerce Layout</title>

  <link rel="stylesheet" href="ecommerce.css">

</head>

<body>

  <header class="navigation">

    Navigation Menus Here

  </header>

  <div class="container">

    <aside class="advertisement left">

      Place your advertisement here

    </aside>

    <main class="product-grid">

      <div class="product">Products Here</div>

      <div class="product">Products Here</div>

      <div class="product">Products Here</div>

      <div class="product">Products Here</div>

      <div class="product">Products Here</div>

      <div class="product">Products Here</div>

      <div class="product">Products Here</div>

      <div class="product">Products Here</div>

      <div class="product">Products Here</div>

    </main>

    <aside class="advertisement right">

      Place your advertisement here

    </aside>

  </div>

</body>

</html>
```

```
</div>
```

```
</body>
```

```
</html>
```

ecommerce.css

```
* {
```

```
    margin: 0;
```

```
    padding: 0;
```

```
    box-sizing: border-box;
```

```
}
```

```
body {
```

```
    font-family: Arial, sans-serif;
```

```
}
```

```
.navigation {
```

```
    background-color: #fae5d3;
```

```
    text-align: center;
```

```
    padding: 10px;
```

```
    font-size: 18px;
```

```
    border: 2px solid #ccc;
```

```
    margin: 25px;
```

```
}
```

```
.container {
```

```
    display: flex;
```

```
    margin: 25px;
```

```
}
```

```
.advertisement {
```

```
    background-color: #27ae60 ;
```

```
    color: #333;
```

```
    width: 15%;
```

```
text-align: center;

padding: 5px;

border: 1px solid #ccc;
}

.advertisement.left {

margin-right: 5px;
}

.advertisement.right {

margin-left: 5px;
}

.product-grid {

display: grid;

grid-template-columns: repeat(3, 1fr);

gap: 20px;

flex-grow: 1;

border: 1px solid #ccc;

background-color: #2874a6 ;

padding: 20px;
}

.product {

background-color: #85c1e9;

color: #fff;

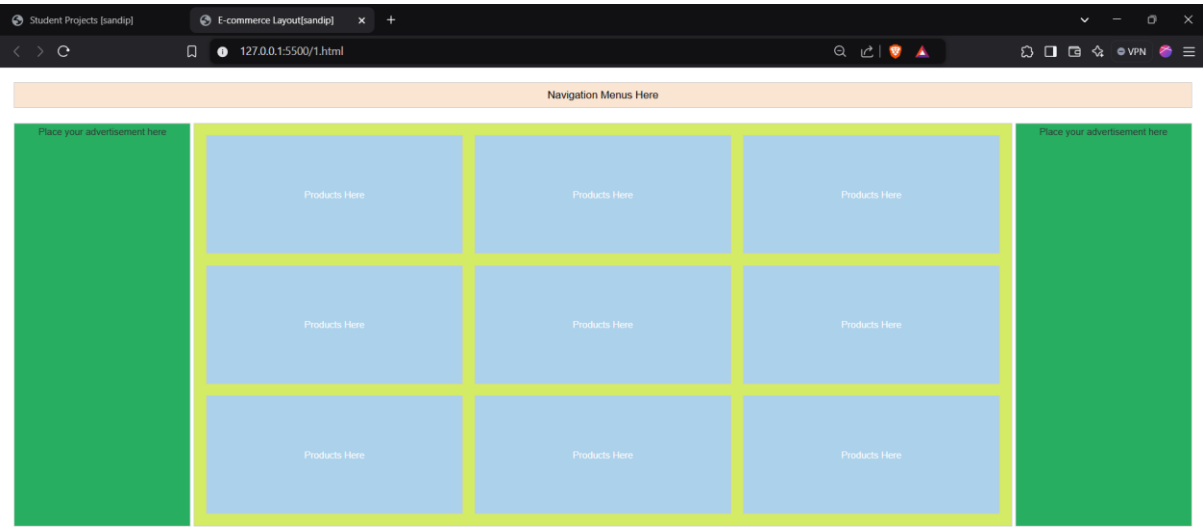
text-align: center;

padding: 90px 90px;

border: 1px solid #ccc;

font-size: 16px;
}
```

Output:



Q.2. Create a Table with project details using only divs. You may take reference from the practical session of Lab 1 table. Make use of internal CSS.

HTML Structure

1. `<!DOCTYPE html>`: Declares the document type as HTML5.
2. `<html lang="en">`: Specifies the language of the document as English.
3. `<title>`: Sets the title of the document as "Student Projects."
4. `<h1>`: Displays the page title, "Student Projects," centered at the top.
5. `. table-container`: Wraps the entire table with a border and rounded corners.
6. `. row. Header`: Defines the table header with column titles (S.N, Project Name, etc.) styled in green.
7. `. row`: Represents rows of the table with cells for each column (e.g., student data).
8. `. footer`: Adds a footer row with the text "End of Projects."

CSS Styles

1. `body`: Applies a light background color, sets the font to Arial, and removes default margins/padding.
2. `h1`: Centers the heading, with dark text and top/bottom margin for spacing.
3. `. table-container`: Styles the table with a border, rounded corners, and auto-centered layout.
4. `.row`: Uses flex for horizontal alignment and consistent row height.
5. `. header`: Adds a green background, white text, and bold font for the header.
6. `. cell`: Centers text in each cell with padding, borders, and responsive width.
7. `. footer`: Styles the footer with a green background and white text, aligning it in the center.

Source Code:

Inlinecss.html:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <title>Student Projects</title>

  <style>

    body {

      font-family: Arial, sans-serif;
```

```
background-color: #f4f4f9;
margin: 0;
padding: 0;
}
h1 {
text-align: center;
margin: 20px 0;
color: #333;
}
.table-container {
width: 90%;
margin: 0 auto;
border: 2px solid #333;
border-radius: 8px;
overflow: hidden;
}
.row {
display: flex;
height: 100px;
}
.header {
background-color: #4CAF50;
color: #fff;
font-weight: bold;
}
.cell {
border: 1px solid #ddd;
padding: 20px;
text-align: center;
```



```

    flex: 1;

    justify-content: center; /* Centers content horizontally */
    align-items: center; /* Centers content vertically */
}

.footer {
    background-color: #4CAF50;
    color: white;
    text-align: center;
    padding: 10px;
}

</style>
</head>
<body>

<h1>Student Projects</h1>
<div class="table-container">

    <!-- Header -->

    <div class="row header">

        <div class="cell">S.N</div>

        <div class="cell">Project Name</div>

        <div class="cell">Student Name</div>

        <div class="cell">Exam Roll No.</div>

        <div class="cell">Remarks</div>

    </div>

    <!-- Rows -->

    <div class="row">

        <div class="cell">1</div>

        <div class="cell">Inventory Management System</div>

        <div class="cell">Mota bhai </div>

        <div class="cell">1001</div>

```

```
<div class="cell">Excellent</div>
</div>
<div class="row">
  <div class="cell">2</div>
  <div class="cell">Weather Monitoring App</div>
  <div class="cell">Captain marvel</div>
  <div class="cell">1002</div>
  <div class="cell">Very Good</div>
</div>
<div class="row">
  <div class="cell">3</div>
  <div class="cell">Portfolio Website</div>
  <div class="cell">Bruce Banner </div>
  <div class="cell">1003</div>
  <div class="cell">Outstanding</div>
</div>
<div class="row">
  <div class="cell">4</div>
  <div class="cell">E-commerce Platform</div>
  <div class="cell">Steve jobs </div>
  <div class="cell">1004</div>
  <div class="cell">Good</div>
</div>
<div class="row">
  <div class="cell">5</div>
  <div class="cell">Blog Management System</div>
  <div class="cell">Tony Stark</div>
  <div class="cell">1005</div>
  <div class="cell">Excellent</div>
```

</div>

<!-- Footer -->

<div class="footer">

End of Projects

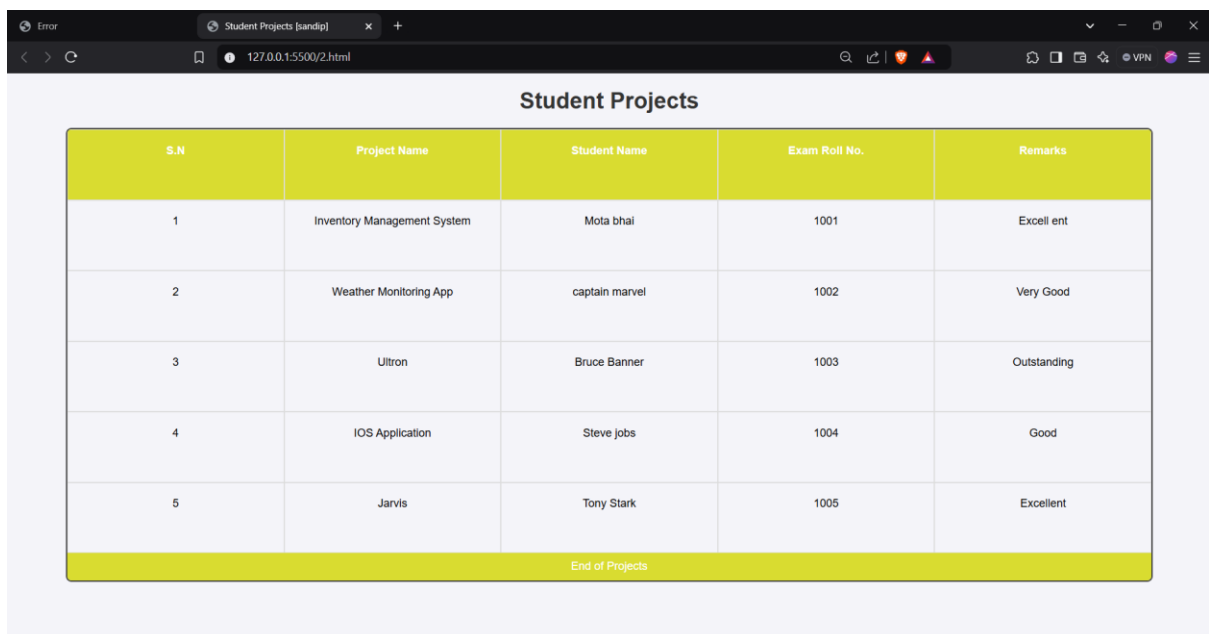
</div>

</div>

</body>

</html>

Output:



The screenshot shows a web browser window with the title 'Student Projects [sandip]'. The address bar shows the URL '127.0.0.1:5500/2.html'. The main content area displays a table with the title 'Student Projects'.

S.N	Project Name	Student Name	Exam Roll No.	Remarks
1	Inventory Management System	Mota bhai	1001	Excell ent
2	Weather Monitoring App	captain marvel	1002	Very Good
3	Ultron	Bruce Banner	1003	Outstanding
4	IOS Application	Steve Jobs	1004	Good
5	Jarvis	Tony Stark	1005	Excellent
End of Projects				

Q.3. Use external CSS to design the form you created in the 1st Practical Session. The final form should resemble one given below. You may choose the colors and fonts as per your wish.

The image shows a registration form with a light green background. The form is contained within a dark green rounded rectangle. It has the following elements:

- Full Name:** A text input field with the placeholder text "Enter your Name".
- Email ID:** A text input field with the placeholder text "Enter your Email".
- Password:** A text input field with the placeholder text "Enter your Password".
- Gender:** A horizontal container with two radio buttons labeled "Female" and "Male".
- Click on your interests:** A horizontal container with five checkboxes labeled "Coding", "Singing", "Football", "Dancing", and "Basketball".
- Register:** A dark green button with the text "Register".

HTML Structure

1. `<!DOCTYPE html>`: Declares the document as HTML5.
2. `<html lang="en">`: Sets the document language to English.
3. `<title>`: Defines the title as "Registration Form."
4. `<form>`: Wraps the registration form content.
5. **Input Fields**: Includes text, email, password, radio (for gender), and checkbox (for interests).
6. `<button>`: Adds a "Register" button to submit the form.

CSS Styling

1. **body**: Centers the form using flexbox, sets the font, and applies a yellow background.
2. **.form-container**: Creates a card-like design with a rounded border, padding, and a box shadow.
3. **h2**: Adds headings with a small font size and black color.

4. Input Fields: Styled with padding, rounded corners, and a subtle box shadow.
5. .gender & .interests: Centers radio buttons and checkboxes in a styled container with a light background.
6. button: Adds a blue, rounded button that turns red on hover.

Source Code:

form.html:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <title>Registration Form</title>

  <link rel="stylesheet" href="form.css">

</head>

<body>

  <div class="form-container">

    <form>

      <h2>Full Name:</h2>

      <input type="text" placeholder="Enter your Name" required>

      <h2>Email ID:</h2>

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

      <h2>Password:</h2>

      <input type="password" placeholder="Enter your Password" required>

      <h2>Gender:</h2>

      <div class="gender">

        <label><input type="radio" name="gender" value="Female"> Female</label>

        <label><input type="radio" name="gender" value="Male"> Male</label>

      </div>

      <h2>Click on your interests:</h2>

      <div class="interests">

        <label><input type="checkbox" name="interest" value="Coding"> Coding</label>

        <label><input type="checkbox" name="interest" value="Singing"> Singing</label>
```

```
        <label><input type="checkbox" name="interest" value="Football">
Football</label>

        <label><input type="checkbox" name="interest" value="Dancing"> Dancing</label>

        <label><input type="checkbox" name="interest" value="Basketball">
Basketball</label>

    </div>

    <button type="submit">Register</button>

</form>

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

form.css:

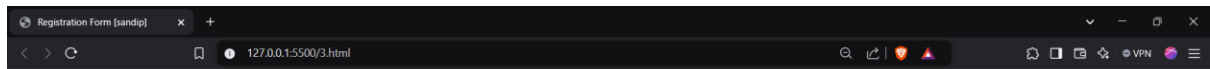
```
body {
    font-family: Arial, sans-serif;
    background-color: #f9e79f;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    margin: 0;
}

.form-container {
    background-color: #f5b041;
    border-radius: 15px;
    padding: 25px;
    width: 360px;
    box-shadow: 0px 4px 6px rgba(0, 0, 0, 0.1);
    text-align: center;
}
```

```
form {
  display: flex;
  flex-direction: column;
  gap: 15px;
}
h2 {
  font-size: 16px;
  color: black;
  margin-bottom: 5px;
}
input[type="text"],
input[type="email"],
input[type="password"] {
  width: 100%;
  padding: 8px;
  border: none;
  border-radius: 5px;
  box-shadow: 0px 2px 4px rgba(0, 0, 0, 0.1);
  margin-bottom: 10px;
  text-align: center;
}
.gender, .interests {
  display: flex;
  justify-content: center;
  align-items: center;
  background-color: #fdf2e9; /* Updated background color */
  padding: 10px;
  border-radius: 10px;
  gap: 10px;
```

```
}  
  
label {  
    font-size: 14px;  
    color: #333;  
}  
  
button {  
    background-color: #2e86c1;  
    color: white;  
    border: none;  
    padding: 20px;  
    border-radius: 70px;  
    cursor: pointer;  
    font-size: 16px;  
    text-align: center;  
}  
  
button:~hover {  
    background-color: red;  
}
```


Output:



Full Name:

Email ID:

Password:

Gender:

☐ Female ☐ Male

Click on your interests:

☐ Coding ☐ Singing ☐ Football ☐ Dancing ☐ Basketball

Register

Conclusion:

In conclusion, these tasks provide hands-on experience in utilizing HTML and CSS to design functional and visually appealing web components. By creating an e-commerce layout, a table using div elements, and a customized form, students develop essential skills in structuring web pages and applying external and internal CSS effectively. These exercises promote creativity and encourage attention to detail while adhering to web design principles. Ultimately, the tasks prepare students to build professional-grade websites with enhanced usability and aesthetic appeal. This practical approach reinforces theoretical knowledge and bridges the gap between learning and real-world application.