# WEB TECHNOLOGY(LAB)

## Lab 6 Task

(BSCS)

Вy

Sr	Name	Roll- number	Section
1	Ateeb Qaiser	Fa-23- 279	G

# Supervised by:

Sir M. Yousaf

(Signature)————



# Department of Computer Science Lahore Garrison University Lahore

# **Lab Objectives**

- Apply CSS rules to style a webpage.
- Understand and use the CSS Box Model.
- Use selectors, positioning, and layout techniques.
- Inspect and debug layout using browser DevTools.

# **Tools Required**

- **VS Code** (with Live Server extension)
- Browser DevTools (Chrome, Firefox, etc.)
- A basic **HTML portfolio page** to style

## **Step 1: Style the Personal Portfolio**

HTML File (index.html) – Basic Structure

## CSS File (style.css) - Styling and Box Model

```
/* General Reset /
  box-sizing: border-box;
  margin: 0;
  padding: 0;
}
/* Body Styling /
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  color: #333;
  padding: 20px;
}
/Header/
header {
  background-color: #007acc;
  color: white;
  padding: 20px;
  margin-bottom: 20px;
```

```
border-radius: 8px;
/Class and ID Selectors/
#main-title {
  font-size: 2em;
}
.tagline {
  font-style: italic;
/ Section Styling /
.about, .projects {
  margin-bottom: 20px;
  padding: 15px;
  background-color: white;
  border: 1px solid #ccc;
  border-radius: 5px;
}
/ Project Cards with Float /
.project-card {
  float: left;
  width: 45%;
  margin: 2.5%;
  padding: 10px;
  background-color: #e0e0e0;
  border: 1px solid #999;
  border-radius: 5px;
}
/Clearfix/
.projects::after {
  content: "";
  display: table;
  clear: both;
}
/Footer */
footer {
  text-align: center;
  padding: 10px;
```

```
background-color: #ddd;
border-radius: 5px;
```

}

```
index.html X # style.css
index.html > ...
 1 <!DOCTYPE html>
 2 <html lang="en">
     <meta charset="UTF-8">
  <title>My Portfolio</title>
  link rel="stylesheet" href="style.css">
         <h1 id="main-title">Ateeb Qaiser</h1>
         Web Developer | Problem Solver | Learner
       <section class="about">
         <h2>About Me</h2>
         <I am a Computer Science student passionate about web development and coding.</p>
       <section class="projects">
         <h2>Projects</h2>
         <div class="project-card">
          <h3>Portfolio Website</h3>
          A personal website built using HTML and CSS.
         <div class="project-card">
           <h3>Calculator App</h3>
A simple JavaScript-based calculator.
         0 2025 Ateeb Qaiser | All Rights Reserved
40
```

```
# style.css X
# style.css > ...
        box-sizing: border-box;
        margin: 0;
        padding: 0;
      body {
      font-family: Arial, sans-serif;
background-color: ■#f4f4f4;
        color: □#333;
        padding: 20px;
      header {
      background-color: ■#007acc;
color: ■white;
padding: 20px;
margin-bottom: 20px;
      border-radius: 8px;
      #main-title {
      font-size: 2em;
      .tagline {
       font-style: italic;
      .about, .projects {
      margin-bottom: 20px;
       padding: 15px;
        background-color: ■white;
        border: 1px solid ■#ccc;
        border-radius: 5px;
```

### **Ateeb Qaiser**

Web Developer | Problem Solver | Learner

#### **About Me**

I am a Computer Science student passionate about web development and coding.

#### **Projects**

#### Portfolio Website

A personal website built using HTML and CSS.

Calculator App
A simple JavaScript-based calculator.

# Step 2: Use Selectors and Layout Techniques

- **ID Selector**: #main-title
- Class Selector: .tagline, .project-card
- **Descendant Selector**: section .project-card
- Float and Clear: Used for .project-card and .projects::after
- Modern Alternative: You can replace float with Flexbox or Grid for responsive layouts.

Selector Type	Example in Code	Meaning / Use	
ID Selector	#main-title	Styles an element with a unique ID	
Class Selector	.tagline, .project-card	Styles multiple elements with the same class	
Descendant Selector	section .project-card	Targets .project-card only inside a section	
Float	.project-card { float: left; }	Makes elements align side-by- side	
Clearfix	.projects::after	Clears floats to avoid layout breaks	
Modern Option	Use Flexbox or Grid instead of float for responsive design		

#### Flexbox Alternative (Optional, Modern Layout)

```
.projects {
  display: flex;
  gap: 20px;
  flex-wrap: wrap;
}
.project-card {
  flex: 1 1 45%;
}
```

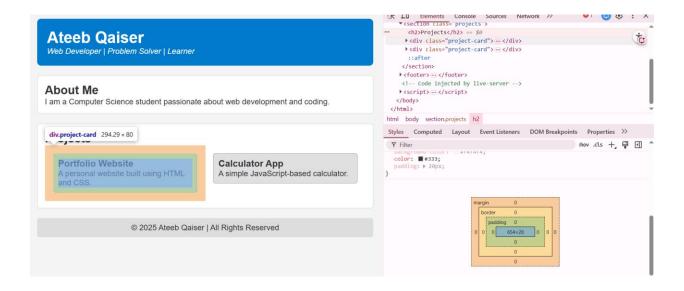
# ♦ Step 3: Use DevTools to Inspect Box Model

# How to Inspect:

- 1. Open the page in a browser.
- 2. Right-click on any element (e.g., .project-card) and choose Inspect.
- 3. In the **Elements tab**, look at the **Box Model** section:
  - o Check margin, border, padding, and content.

Adjust styles live to fix layout issues.

**Deliverable**: Take screenshots of the DevTools showing the box model for at least one element.



# **Final Deliverables**

- index.html Portfolio page
- style.css CSS file with styling and layout
- Screenshots of **DevTools** showing box model inspection

Would you like me to generate a downloadable ZIP file with these files or help convert the layout to Flexbox/Grid for modern responsiveness?

# **CONCLUSION:**

This lab helped me learn how to create a well-structured HTML page using semantic tags and improve accessibility through proper headings, alt text, and links. I also understood the importance of validating HTML to ensure clean and error-free code.

# **RUBRICS:**

Performance			Lab Report		
Description	Total Marks	Marks Obtained	Description	Total Marks	Marks Obtained
Ability to Conduct practical	5		Structure	5	
Data Analysis & Interpretation	5		Efficiency	5	
Total Marks obtained			Total Marks Obtained		

Instructor	Signature	