	School of Engineering & Technology	
	Department: CSE	Session: Odd
	Programme: B.Tech CSE (Core)	Semester: 1
	Course Code: ETCCCP105	Number of students:
	Course Name: Computer Science Fundamentals & Career Pathways	Faculty: Dr. Ravinder Beniwal

Title: Build & Document a Mini Project Using GitHub and VS Code
Submitted by: Pragati

Roll No: 2501010297

Project Overview :

Project Title: Personal Portfolio Webpage

This project is a simple static portfolio webpage built using HTML and CSS. It showcases personal details, skills, and projects in a clean, responsive design. The purpose is to learn practical usage of VS Code, Git, and GitHub while creating a professional artifact that can be extended in the future.

Introduction:

Modern software development is not just about writing code; it is about building projects in a structured, collaborative, and professional way. Developers today rely on powerful tools such as Visual Studio Code (VS Code) for coding and debugging, and Git with GitHub for version control and collaboration. These tools together create an ecosystem where projects can be developed, tracked, documented, and shared efficiently.

This assignment, "Build & Document a Mini Project Using GitHub and VS Code", is designed to give students practical exposure to these industry-standard tools. By creating a small but complete project, maintaining it in a Git repository, and hosting it on GitHub, learners gain hands-on experience in:

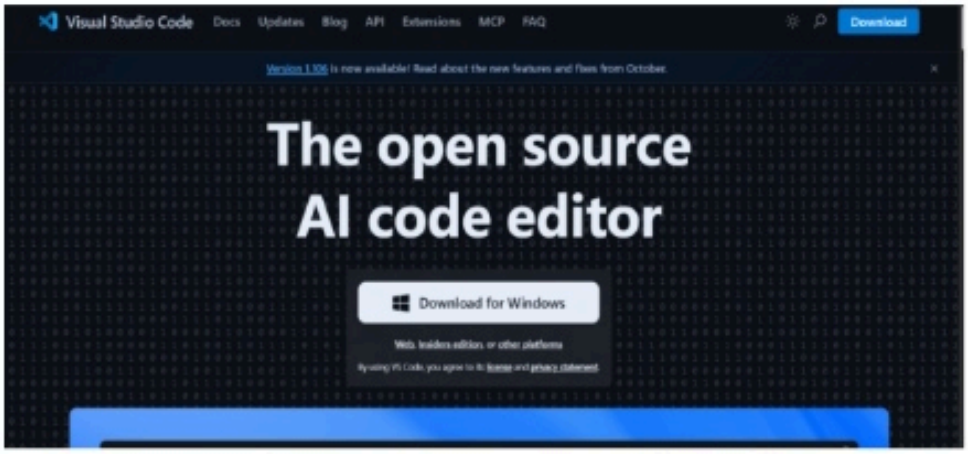
- Using VS Code as an integrated development environment for writing and testing code.

  Applying Git commands to initialize repositories, commit changes, and manage versions.
- Hosting projects on GitHub, making them accessible for collaboration and review.
- Documenting work professionally using Markdown files, screenshots, and structured folders

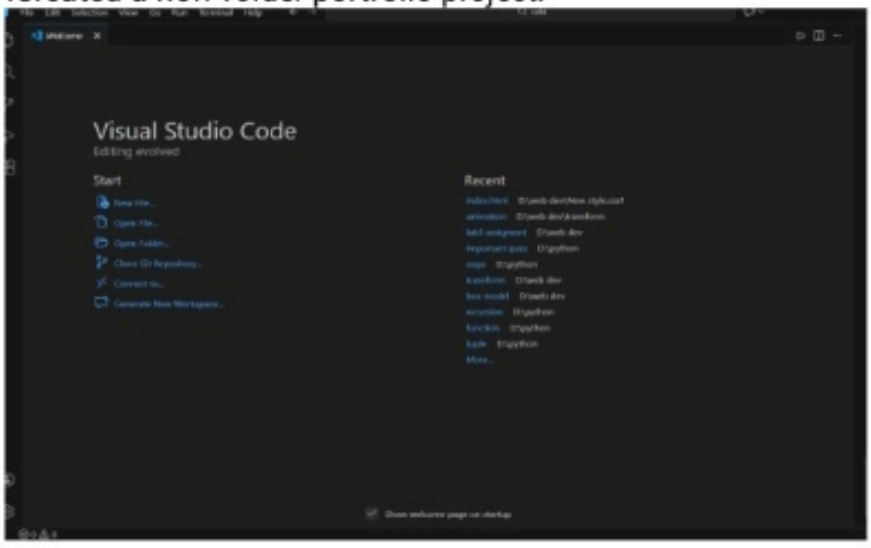
Development Process:

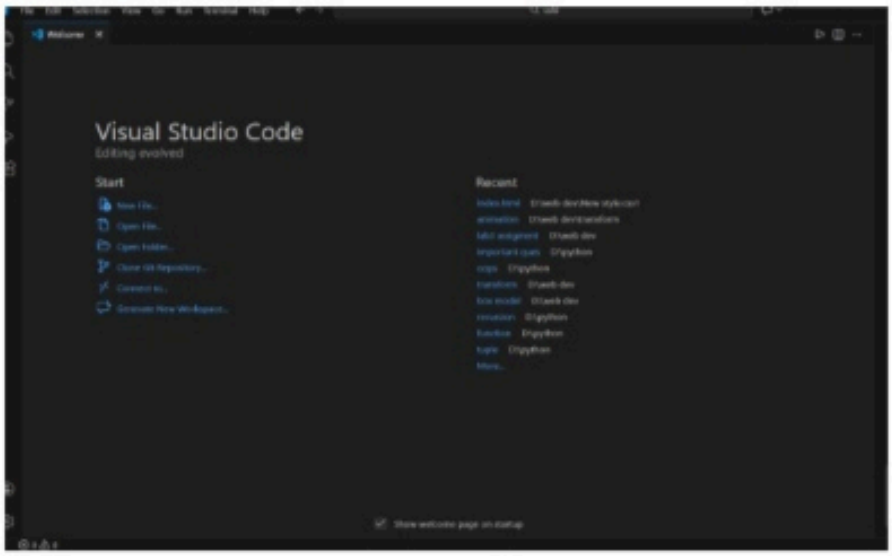
Step 1 – Setup

- Installed Visual Studio Code .



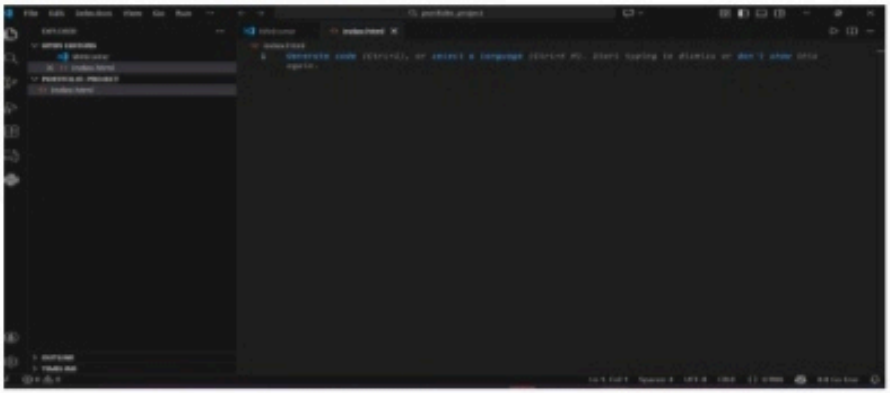
.Created a new folder portfolio-project.



- 

Step 2 – Implementation (Coding)

- Created index.html with sections



index.html (simplified structure):

```
<!DOCTYPE html>
<html>
<head>
 <title>My Portfolio</title>
 <link rel="stylesheet" href="style.css">
</head>
<body>
 <header>
  <h1> Pragati </h1>
  <p>B.Tech CSE</p>
 </header>
```

```
  <section>
    <h2>About Me</h2>
    <p>Passionate about coding and design.</p>
  </section>

  <section>
    <h2>Projects</h2>
    <ul>
      <li>Portfolio Website</li>
      <li>Micro Help Exchange</li>
    </ul>
  </section>

  <footer>
    <p>© 2025 Pragati </p>
  </footer>
</body>
</html>
```

Style.css (sample code):

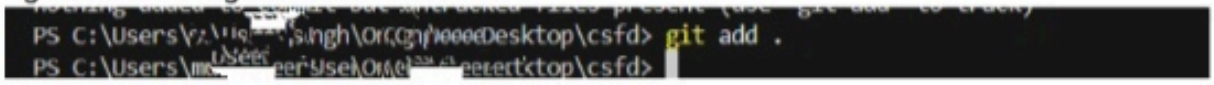
```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  text-align: center;
}

header {
  background: #333;
  color: #fff;
```

```
  padding: 20px;
}

section {
  padding: 20px;
}

footer {
  background: #eee;
  padding: 10px;
}
```

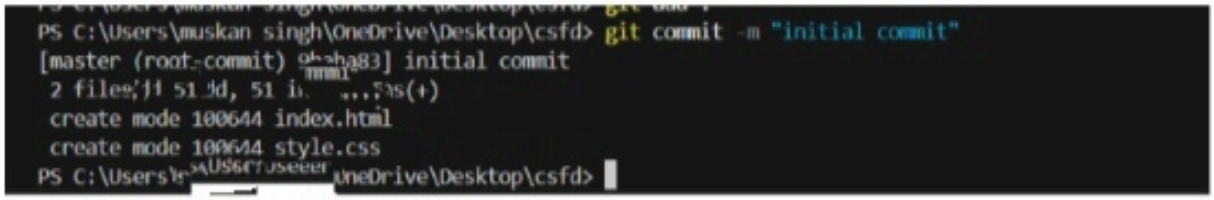
Step 3: Git & GitHub
During development, Git was used to track changes, and GitHub served as the hosting platform for the portfolio website.
Key Git commands used were:

- git init – Initialize the local repository

- git add . – Stage all files for commit

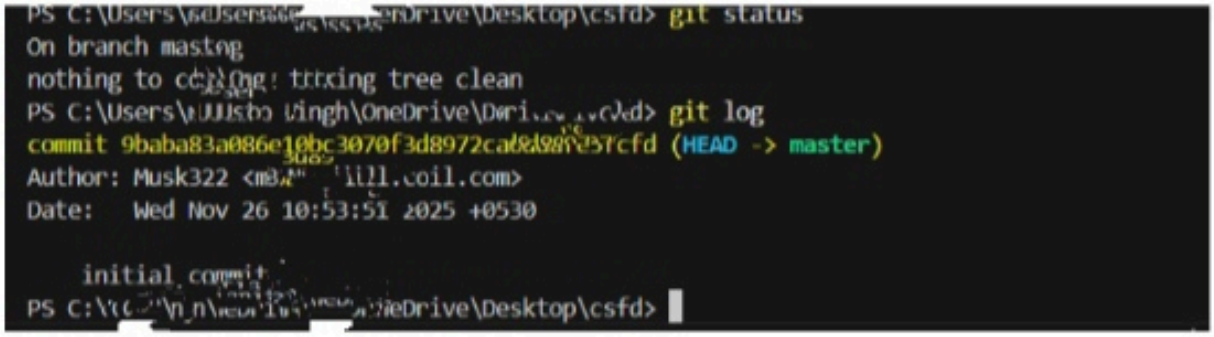


- git commit -m "Initial commit" – Save changes with a message



- git status – Check current status of file

- git log – View commit history



Step 4 :Repository Structure:

portfolio_project/

```
index.html       # Main HTML file (homepage)
style.css        # CSS stylesheet
assets/          # Folder for images, icons, fonts
    images/      # Screenshots, logos, portfolio images
    fonts/       # Custom fonts if any

docs/            # Documentation files
    screenshots/ # Assignment screenshots with captions

README.md        # Project introduction, features, usage, screenshots
```

Step 5: Documentation

README.md (basic structure)

Portfolio Project

This is a simple portfolio website created as part of my assignment.

It includes HTML and CSS files to showcase my work.

—

Repository Structure

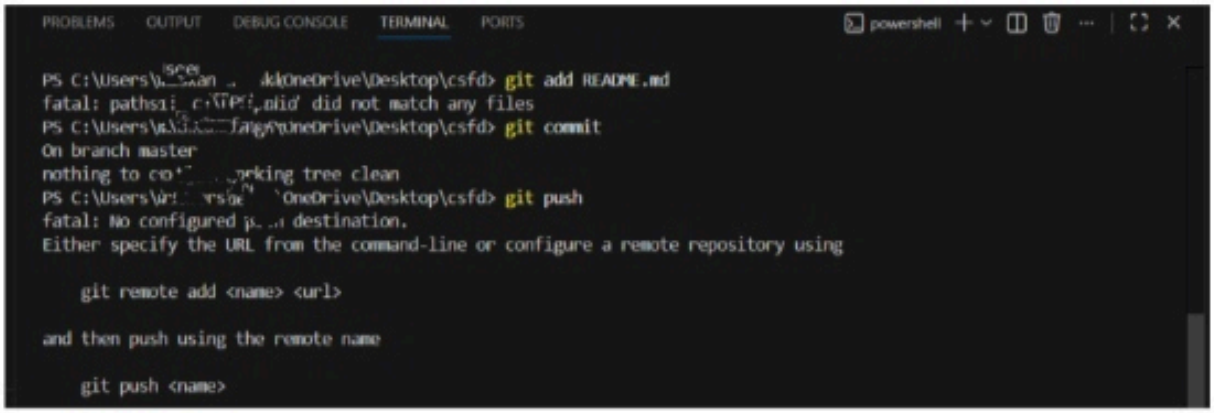
- `index.html` Main homepage
- `style.css` Styling
- `script.js` (Optional) JavaScript
- `assets/` Images, fonts

- `docs/screenshots/` Assignment screenshots
- `README.md` Documentation

Features
- Responsive layout
- Clean typography
- Organized folder structure
- Screenshots for assignment proof

Git Commands Used
- `git init` Initialize repository
- `git add .` Stage files
- `git commit -m "Initial commit"` Save changes
- `git remote add origin <URL>` Connect to GitHub
- `git push -u origin main` Upload files

Author
Pragati
B.Tech CSE | Web Development
README(PUSH IN GITHUB):



Features

- Responsive design (desktop + mobile)
- Clean and modern layout using CSS
- Organized folder structure (HTML, CSS, assets, docs)
- Smooth navigation with links
- GitHub-hosted with version control
- Easy to update and maintain

Future Improvements

- Add JavaScript interactivity (animations, dark mode toggle)
- Integrate a contact form with backend support
- Improve accessibility (ARIA labels, keyboard navigation)
- Deploy live using GitHub Pages or Netlify
- Add more screenshots and detailed documentation

Real World Relevance:

- Portfolio website builds professional identity and online presence.
- Git & GitHub use reflects industry-standard version control.
- Hosted repo helps in collaboration and employability.

Reflection:

- Learned to initialize repo, commit, and push to GitHub.
- Understood importance of organized file structure and documentation.

- Gained practice in writing README and explaining project clearly.
- Connected classroom learning with real-world developer practices.