

## ***Week No:1 Assignment Plan (Tue–Fri)***

### ***Tuesday: Git, GitHub & JS Basics***

Topics Covered:

- What is Git? What is GitHub?
- Installing Git and VS Code
- Basic Git Commands: `init`, `clone`, `add`, `commit`, `push`
- Creating and pushing to GitHub repositories
- JavaScript Basics:
  - Variables (`let`, `const`)
  - Data types and operators
  - Function types: declaration, expression, arrow

Assignment:

- Create a GitHub repository named `portfolio`
- Add a `README.md` with a short intro and push it
- Build a calculator using JavaScript functions (add, subtract, multiply, divide)

Resources:

- GitHub Docs, Git Cheat Sheet
- MDN – Grammar and Types

- YouTube: Git & GitHub Crash Course
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### ***Wednesday: JS Control Flow & Arrays***

Topics Covered:

- Conditional Statements: `if`, `else`, `switch`
- Loops: `for`, `while`, `for...of`
- Arrays: declaration, iteration, common methods (`push`, `pop`, `map`, `filter`)

Assignment:

- Build a basic console-based to-do list using arrays and control structures

Resources:

- MDN – Control Flow & Arrays
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### ***Thursday: JS Objects & DOM Manipulation***

Topics Covered:

- Object Literals and Nested Structures
- DOM Selection: `querySelector`
- DOM Events: `addEventListener`, `innerHTML`

Assignment:

- Build a DOM-based counter or a dynamic form handler

Resources:

- MDN – Working with Objects

- YouTube: DOM Manipulation for Beginners
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### **Friday: Node.js & File System**

Topics Covered:

- What is Node.js? Setting up Node and npm
- Running JS in Node (`console.log`, `require`, `module.exports`)
- Using the `fs` module
- Creating and importing custom modules

Assignment:

- Write a CLI-based note-taking app that:
  - Accepts input
  - Saves data to a file
  - Uses modular JS code

Resources:

- [Node.js Guide](#)
- YouTube: Node.js Crash Course