# GitHub

## ▼ What is Git?

### Step 1: What is Git?

Git is a version control system (VCS), and it's widely used in software development to manage changes in code. It allows multiple people to collaborate on a project without overwriting each other's work.

## ▼ Key Concepts of Git

1. **Repository (repo)**: A repository is like a project folder that stores all your code and the entire history of your changes.

2. **Commit**: A commit is like taking a snapshot of your project. It records what your project looks like at that moment.

3. **Branch**: A branch is a separate line of development. You can create a branch to work on new features without affecting the main project.

4. **Merge**: When you finish working on a branch, you can merge it back into the main project to include the new changes.

## ▼ Introduction to GitHub

GitHub is where Git repositories are hosted online. It's a platform for sharing and collaborating on code with others.

**Why GitHub is Important**:

- **Collaboration**: Developers from around the world can contribute to a project.

- **Code Sharing**: It makes it easy to share your code with others, whether it's for work or open-source projects.

- **Version Control**: GitHub stores the entire history of changes to a project, so you can track who changed what and when.
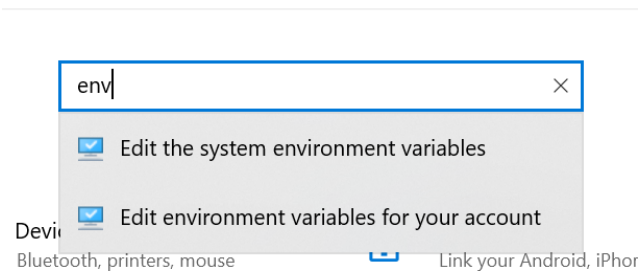
# ▼ Download Git

https://git-scm.com/downloads

# ▼ Setting up Environment Variable of git for bin

→ go to the location where git is downloaded and kept and navigate to the bin and copy the path set up in environment Variable

### → Navigate to settings and search for environment variable



→ Navigate to first option

# ▼ Getting Started with Git

Getting Started with Git