Git and GitHub

Spark and Build Class

What is Git?

- Git is a free and **open-source distributed version control system.**
- Git helps you keep track of code changes.
- It also helps track who made changes
- Git is used to collaborate on code (multiple developers to work on the same project simultaneously)

What is GitHub?

- GitHub is a popular **platform for hosting** and collaborating on code repositories. Other code hosting platforms include Bitbucket, GitLab etc.
- GitHub is the largest host of source code in the world.
- It provides tools for version control using Git, enabling multiple developers to work on projects simultaneously, track changes, and manage contributions.

Why use Git?

- Over 70% of developers use Git!
- Developers can work together from anywhere in the world.
- Developers can see the full history of the project.
- Developers can revert to earlier versions of a project.

Git vs GitHub

Git	GitHub
Git is a software.	GitHub is a service.
Git is a command-line tool	GitHub is a graphical user interface
Git is installed locally on the system	GitHub is hosted on the web
Git is maintained by Linux.	GitHub is maintained by Microsoft.
Git is focused on version control and code sharing.	GitHub is focused on centralized source code hosting.

Git vs GitHub

Git	GitHub
Git is a version control system to manage source code history.	GitHub is a hosting service for Git repositories.
Git has no user management feature.	GitHub has a built-in user management feature.
Git is open-source licensed.	GitHub includes a free-tier and pay-for-use tier.
Git has minimal external tool configuration.	GitHub has an active marketplace for tool integration.
Git competes with CVS, Azure DevOps Server, Subversion, Mercurial, etc.	GitHub competes with GitLab, Bit Bucket, AWS Code Commit, etc