**Git and GitHub**

Git – It is maintained by Linux

GitHub – It is maintained by Microsoft

**Features of Git**

* **Version Control System**:
* **Repositories**: There are two main types:
  + **Local Repository**:
  + **Remote Repository**:
* **Commits**:
* **Branches**:
* **Merging**:
* **Cloning**:

**Reason to Choose Git**

* **Distributed System**:
* **Performance**:
* **Branching and Merging**:
* **Collaboration**:
* **Track Changes**:

**Basic Git Commands**

* **git init:**

git init

* **git clone [URL]:**

git clone [url]

* **git add [file]:**

git add [file]

* **git commit -m "message":**

git commit -m "Your commit message"

* **git push:**

git push origin branch-name

* **git pull:**

git pull origin branch-name

* **git status:**

**Git Workflow**

A Git workflow is a set of guidelines for using Git in a structured and efficient manner.

* **Clone Repository**: git clone <url>
* **Create Branch**: git checkout -b feature-branch-name
* **Check Status**: git status
* **Stage Changes**: git add filename or git add .
* **Commit Changes**: git commit -m "Add feature X"
* **Push Branch**: git push origin feature-branch-name
* **Create Pull Request**: On Github/other service
* **Update Local Repository**: git checkout main, git pull origin main
* **Delete Branch**: git branch -d feature-branch-name, git push origin --delete feature-branch-name