**1. Setting Up Git**

* **Configure your username**:  
    
  git config --global user.name "Your Name"

* **Configure your email**:  
    
  git config --global user.email "your.email@example.com"

* **Check current Git configuration**:  
    
  git config --list

**2. Initializing and Cloning a Repository**

* **Initialize a new Git repository in the current directory**:  
    
  git init

* **Clone an existing remote repository**:  
    
  git clone repository\_url

**3. Staging and Committing Changes**

* **Check the status of the repository (see which files are staged, unstaged, or untracked)**:  
    
  git status

* **Stage a specific file for commit**:  
    
  git add filename

* **Stage all modified and new files**:  
    
  git add .

* **Commit staged changes with a message**:  
    
  git commit -m "Your commit message"

* **Amend the last commit (for adding more changes or fixing the commit message)**:  
    
  git commit --amend

**4. Branching and Merging**

* **Create a new branch**:  
    
  git branch branch\_name

* **Switch to a branch**:  
    
  git checkout branch\_name

* **Create and switch to a new branch**:

git checkout -b branch\_name

* **Merge a branch into the current branch**:  
    
  git merge branch\_name

* **Delete a branch**:  
    
  git branch -d branch\_name

**5. Remote Repositories**

* **Add a remote repository**:

git remote add origin repository\_url

* **View all remote repositories**:  
    
  git remote -v

* **Fetch changes from the remote repository**:  
    
  git fetch origin

* **Pull updates from the remote branch and merge with the current branch**:  
    
  git pull origin branch\_name

* **Push your changes to the remote repository**:  
    
  git push origin branch\_name

**6. Viewing Commit History**

* **View the commit history**:  
    
  git log

* **View a condensed commit history**:

git log --oneline

**7. Undoing Changes**

* **Unstage a file (keep changes)**:  
    
  git reset filename

* **Discard changes in a file**:  
    
  git checkout -- filename

* **Revert a specific commit**:  
    
  git revert commit\_hash

**8. Stashing Changes**

* **Save (stash) uncommitted changes**:  
    
  git stash

* **Apply the most recent stash**:  
    
  git stash apply

* **List all stashes**:  
    
  git stash list

**9. Tagging**

* **Create a tag**:  
    
  git tag tag\_name

* **Push a tag to the remote repository**:  
    
  git push origin tag\_name

* **List all tags**:

git tag