**GETTING STARTED WITH GIT : SETTING UP REPO , CREATING BATCHES & PUSHING FILE**

**Basic Git Commands**

1. **git init** – Initializes a new Git repository.
2. **git clone <repo\_url>** – Creates a local copy of a remote repository.
3. **git add <file>** – Stages changes for the next commit.
4. **git commit -m "message"** – Saves staged changes with a descriptive message.
5. **git status** – Shows the current state of the working directory and staging area.
6. **git log** – Displays the commit history.
7. **git diff** – Shows differences between commits, branches, or the working directory.
8. **git branch** – Lists, creates, or deletes branches.
9. **git checkout <branch>** – Switches to a different branch.
10. **git merge <branch>** – Merges changes from one branch into another.

**Remote Repository Commands**

1. **git remote -v** – Lists remote repositories.
2. **git fetch** – Retrieves updates from a remote repository without merging.
3. **git pull** – Fetches and merges changes from a remote repository.
4. **git push** – Uploads local commits to a remote repository.

**Undoing Changes**

1. **git reset --hard <commit>** – Resets the repository to a specific commit, discarding changes.
2. **git revert <commit>** – Creates a new commit that undoes changes from a previous commit.
3. **git stash** – Temporarily saves uncommitted changes.



