

GIT & GITHUB BASICS (ONE-LINERS)

1. What is Git?

Git is a distributed version control system to track code changes.

2. What is GitHub?

GitHub is a cloud platform to host and manage Git repositories.

3. Check Git Version

```
git --version
```

'i Shows installed Git version.

4. Configure Git User

```
git config --global user.name "Name"
```

```
git config --global user.email "email"
```

'i Sets username and email for commits.

5. Initialize Repository

```
git init
```

'i Creates a new Git repository.

6. Clone Repository

```
git clone <url>
```

'i Copies remote repo to local system.

7. Check File Status

```
git status
```

'i Shows modified, staged, and untracked files.

8. Add Files to Staging

```
git add .
```

'i Moves changes to staging area.

9. Commit Changes

git commit -m "message"

'i Saves changes with a message.

10. View Commit History

git log

'i Displays commit history.

11. Create Branch

git branch feature

'i Creates a new branch.

12. Switch Branch

git checkout feature

'i Moves to another branch.

13. Create & Switch Branch

git checkout -b feature

'i Creates and switches branch.

14. Merge Branch

git merge feature

'i Combines feature branch into current branch.

15. Add Remote Repo

git remote add origin <url>

'i Connects local repo to GitHub.

16. Push Code

git push origin main

'i Uploads code to GitHub.

17. Pull Code

git pull origin main

'i Downloads and merges remote changes.

18. Fetch Code

git fetch

'i Downloads changes without merging.

19. Undo Local Changes

git checkout -- file.txt

'i Discards local file changes.

20. Stash Changes

git stash

'i Temporarily saves uncommitted changes.

21. Apply Stash

git stash pop

'i Restores stashed changes.

22. What is Pull Request?

Pull Request is a request to merge code into another branch.

23. What is Fork?

Fork is a copy of a repository to your GitHub account.

24. What is .gitignore?

File that tells Git which files to ignore.

25. What is HEAD?

HEAD points to the current commit.