

Complete Git Command Guide with Examples

1. Git Setup

```
git config --global user.name "Jagadishwar Reddy"
```

```
git config --global user.email "your_email@example.com"
```

2. Repository Initialization

```
git init
```

```
git clone https://github.com/user/repo.git
```

3. File Operations

```
echo "Hello" > file.txt
```

```
git add file.txt
```

```
git commit -m "Initial commit"
```

4. Branching

```
git branch dev
```

```
git checkout dev
```

```
git checkout -b feature1
```

```
git branch -d feature1
```

5. Rebase

```
git checkout feature1
```

```
git rebase main
```

6. Merging

```
git checkout main
```

```
git merge feature1
```

7. Checkout

```
git checkout branch_name
```

```
git checkout -- file.txt
```

8. Logs and Diff

git log

git log --oneline

git diff

git diff --staged

9. Stash

git stash

git stash list

git stash apply

10. Undo Changes

git reset --soft HEAD~1

git reset --hard HEAD~1

git revert <commit>

11. Remotes

git remote add origin <url>

git push -u origin main

git pull origin main

12. Cherry-pick

git cherry-pick <commit>

13. Tags

git tag v1.0

git tag -a v1.1 -m "Version 1.1"

14. Bisect

git bisect start

git bisect good <hash>

git bisect bad

15. Aliases

```
git config --global alias.co checkout
```

16. .gitignore

```
node_modules/
```

```
*.log
```

17. Pull with Rebase

```
git pull --rebase origin main
```

18. GitHub Auth

Use Personal Access Token for HTTPS push

19. Daily Flow

```
git pull --rebase origin main
```

```
git checkout -b feature
```

work, then:

```
git add .
```

```
git commit -m "done"
```

```
git push origin feature
```