

# 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
```