

# Git Practical Cheat Sheet with Theory

## Introduction

Ye cheat sheet un developers ke liye hai jo daily Git use karte hain aur 'main' aur 'dev' branch ke sath kaam karte hain.

Isme aapko basic se lekar practical merge workflow tak sab kuch milega, har command ke explanation ke sath.

## 1. Clone Project (Pehli baar project download karna)

```
git clone https://github.com/username/project-name.git
```

```
cd project-name
```

-> Ye GitHub se aapka project local system me copy kar deta hai.

## 2. Branch Check Karna aur Switch Karna

git branch -> Current branch check karne ke liye.

git checkout dev -> 'dev' branch me switch karne ke liye.

git checkout -b dev -> Nayi 'dev' branch banakar usme switch karne ke liye.

git push origin dev -> New branch ko GitHub pe bhejne ke liye.

## 3. Latest Code Pull Karna

git checkout dev -> Pehle dev branch me jao.

git pull origin dev -> GitHub se latest code le lo.

-> Daily ka kaam shuru karne se pehle zaroori hota hai.

## 4. Code Me Changes Karna, Stage Aur Commit Karna

git status -> Kaunse file me changes hue ye dekhna.

git add . -> Saare changes stage karne ke liye.

git commit -m "message" -> Changes save karne ke liye commit ke sath message dena.

## 5. GitHub Pe Code Push Karna

git push origin dev -> Local dev branch se GitHub ke dev branch me code bhejna.

## 6. Testing Ke Baad Code Ko Merge Karna (dev -> main)

git checkout main -> Main branch me switch hona.

git pull origin main -> Latest main code lena.

git merge dev -> Dev branch ka code main me merge karna.

git push origin main -> Merged code ko GitHub ke main branch me bhejna.

## **7. Agar Galti Ho Jaye: Restore ya Stash**

git restore filename -> File ke changes hata do.

git restore . -> Saare file ke changes hata do.

git stash -> Temporarily changes save kar lo.

git stash pop -> Wapas le aao stash kiye hue changes.

## **8. Log Aur Remote Dekhna**

git log --oneline -> Commit history dekhna short form me.

git remote -v -> Connected GitHub URL check karna.