

Day 1

**Basic GitHub Commands** guide:

### **Basic GitHub Commands**

#### **1. Configure Git (Global Settings)**

Set your Git username and email address for all local repositories:

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

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

#### **2. Initialize a Repository**

Create a new local Git repository in your current directory:

```
git init
```

#### **3. Clone a Repository**

Copy an existing GitHub repository to your local machine:

```
git clone https://github.com/username/repository.git
```

#### **4. Check Status**

View the current status of your working directory and staged files:

```
git status
```

#### **5. Add Files to Staging Area**

Stage files for committing:

```
git add filename    # Stage a specific file
```

```
git add .         # Stage all modified files
```

#### **6. Commit Changes**

Save staged changes to the local repository with a message:

```
git commit -m "Your commit message"
```

#### **7. Push Changes to Remote**

Upload your commits to the remote repository:

```
git push origin main
```

## **8. Pull Changes from Remote**

Fetch and merge the latest changes from the remote repository:

```
git pull
```

## **9. Branch Management**

List, create, or delete branches:

```
git branch      # List all branches  
git branch new-branch  # Create a new branch  
git branch -d branch-name # Delete a branch
```

## **10. Switch Between Branches**

Change the working branch:

```
git checkout branch-name
```

## **11. Merge Branches**

Merge a different branch into the current branch:

```
git merge branch-name
```

## **12. View Commit History**

Display the log of previous commits:

```
git log
```