## **Essential Git Commands**

### Setup and Configuration - VS to Git

#### 1. Add username

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

#### 2. Add E-mail address

git config --global user.email your.email@example.com

### Repository Initialization and Cloning

1. Initializing a New Repository

git init

2. Clone an Existing Repository

git clone <repository-url>

3. Clone Repository - Specific Branch

git clone --branch <branch name> <repository url>

## Remote Repositories

#### 1. Add a Remote Repository

git remote add origin <repository-url>

#### 2. Fetch all branches

git fetch -all

### **Basic Workflow**

1. Add Changes to Staging Area - specific file

git add <file>

2. Add Changes to Staging Area - All files

git add .

3. Commit Changes

git commit -m "Your commit message"

4. Push Changes

git push

5. Pull Updates from Remote Repository

git pull

6. Stash Uncommitted Changes

git stash

7. Apply Stashed Changes

git stash pop

## Branching and Merging

1. Create a New Branch

git branch <branch-name>

2. Switch to a Branch

git checkout <branch-name>

3. Create and switch to a new branch

git checkout -b <br/>branch-name>

# **Reverting Changes**

- 1. Revert a Commit
  - a. Find the necessary commit hash

git revert <commit-hash>

#### 2. Reset to Last Commit

git reset --hard