

## Git Commands

1.Configure Git with your username and email:

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

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

2.Creating and Cloning Repositories:

```
git init
```

3.Clone an existing repository:

```
git clone <repository-url>
```

## Basic File Operations

1.Add files to the staging area:

```
git add <file-name>      # Add a specific file
```

```
git add .                # Add all files in the current directory
```

2.Check the status of the working directory and staging area:

```
git status
```

3.Commit changes with a message:

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

## Branching and Merging

1.List all branches:

```
git branch
```

2.Create a new branch:

```
git branch <branch-name>
```

3.Switch to another branch:

```
git checkout <branch-name>
```

4.Create and switch to a new branch in one command:

```
git checkout -b <branch-name>
```

5.Merge a branch into the current branch:

```
git merge <branch-name>
```

## Remote Repositories

1.Add a remote repository:

```
git remote add origin <repository-url>
```

2.List all configured remote repositories:

```
git remote -v
```

3.Push changes to a remote repository:

```
git push origin <branch-name>
```

4.Fetch changes from a remote repository:

```
git fetch
```

Pull changes from a remote repository and merge:

```
git pull
```

## Viewing History and Changes

1.Show commit history:

```
git log
```

2.Show a specific commit:

```
git show <commit-hash>
```