Assignment 1: Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

ANS:

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS (main)
$ git init
Reinitialized existing Git repository in G:/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/.git/

user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS (main)
$ |
```

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS (main)
$ git add file.txt
```

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS (main)
$ git add file.txt

user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS (main)
$ git commit -m "Initial Commit"
[main 7c7ef8f] Initial Commit
 1 file changed, 1 insertion(+)
```

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS (main)
$ cat file.txt
Good Morning everyone
```

Assignment 2: Branch Creation and Switching

Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

ANS:

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (main)
$ git branch feature

user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (main)
$ git add .

user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (main)
$ git commit -m "Made changes in the feature branch"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (main)
$ git checkout feature
Switched to branch 'feature'

user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (feature)
$ git checkout -b feature
fatal: a branch named 'feature' already exists

user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (feature)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```
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Assignment 3: Feature Branches and Hotfixes Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved.

ANS:

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (main)
$ git checkout -b hotfix
Switched to a new branch 'hotfix'
```

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (hotfix)
$ git add .

user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (hotfix)
$ git commit -m "Fixed issue in the main code"
On branch hotfix
nothing to commit, working tree clean
```

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (hotfix)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (main)
$ git merge hotfix
Already up to date.
```

```
user@DESKTOP-H420JIT MINGW64 /g/r/wipro/WIPRO_TRAINING2/ASSIGNMENT/WiproAss_RPS/wiprorepoo (main)
$ git branch -d hotfix
Deleted branch hotfix (was cf451e4).
```