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### **Assignment 1**

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

**Steps to follow:**

Step 1: Created New Repository Named as “ AssignmentDemo”

Step 2 : Created new folder on the desktop Named as “ GitAssignment”

Step 3 : Git initialized

Step 4: git configuration

Step 5 : git cloned

Step 6: cd AssignmentDemo/

Ste 7 : created new text file file1.txt

Step 8 : git add .

Step 9: git committed as a initial commit

Step 10 : git push

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment (master)
$ git init
Initialized empty Git repository in C:/Users/Dell/Desktop/GitAssignment/.git/

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment (master)
$ git config --global user.name "Tejaswini699"

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment (master)
$ git config --global user.email teju000kamble@gmail.com

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment (master)
$ git clone https://github.com/Tejaswini699/AssignmentDemo.git
Cloning into 'AssignmentDemo'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment (master)
$ cd AssignmentDemo/

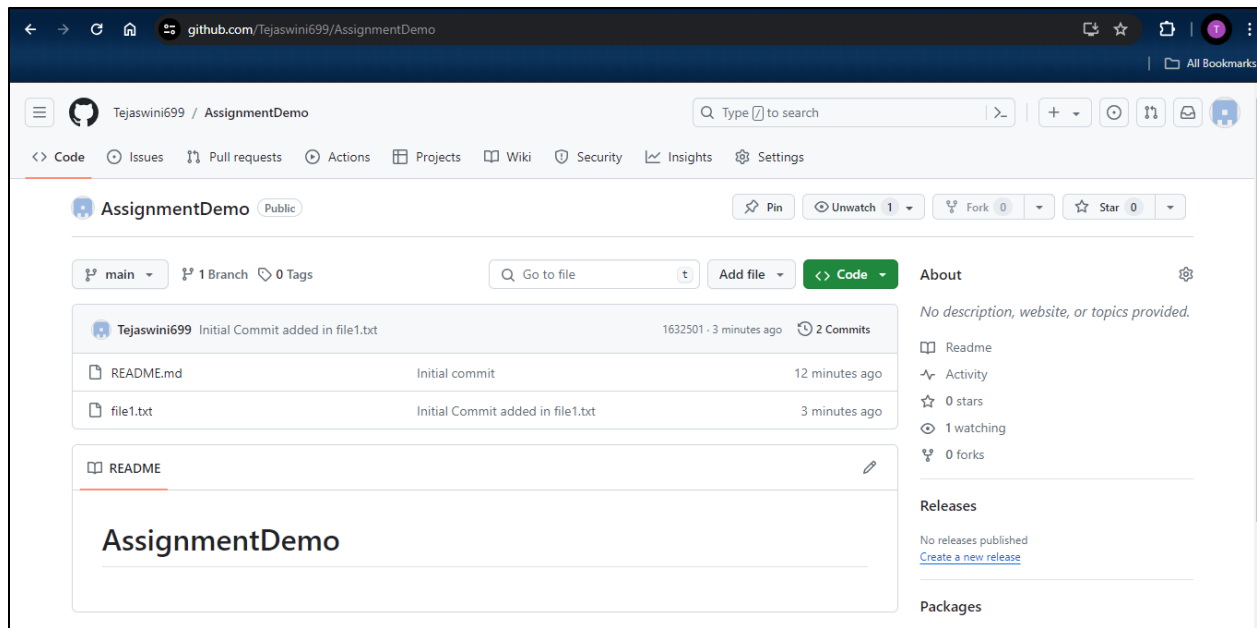
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ ls
README.md

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ echo " Welcome In GitHub" > file1.txt

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git add .
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git commit -m " Initial Commit added in file1.txt "
[main 1632501] Initial Commit added in file1.txt
1 file changed, 1 insertion(+)
create mode 100644 file1.txt

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 317 bytes | 317.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Tejaswini699/AssignmentDemo.git
1cac9ad..1632501 main -> main
```



## Assignment 2 : Branch Creation and Switching

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

**Steps to follow:**

1. `cd AssignmentDemo/`
2. `git branch feature`
3. `git checkout feature`
4. `echo "This is a new feature." > file1.txt`
5. `git add file1.txt`
6. `git commit -m "Add a new feature to file1.txt"`
7. `git branch`
8. `git log --oneline`
9. `git checkout main`  
`git merge feature`

MINGW64:/c/Users/Dell/Desktop/GitAssignment/AssignmentDemo

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git checkout
```

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ echo "This is a new Feature branch" > file1.txt
```

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git add file1.txt
warning: in the working copy of 'file1.txt', LF will be
replaced by CRLF the next time Git touches it
```

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git add .
```

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git commit -m " Added a new feature Branch in file1.txt "
[feature cc98b64] Added a new feature Branch in file1.txt
2 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 file1.txt
```

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git push
```

```
fatal: The current branch feature has no upstream branch.
To push the current branch and set the remote as upstream, use
```

```
git push --set-upstream origin feature
```

```
To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.
```

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git push --set-upstream origin feature
```

```
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 371 bytes | 371.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
remote:   https://github.com/Tejaswini699/AssignmentDemo/pull/new/feature
remote:
To https://github.com/Tejaswini699/AssignmentDemo.git
```

```

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git status
On branch feature
Your branch is up to date with 'origin/feature'.

nothing to commit, working tree clean

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git branch
* feature
  main

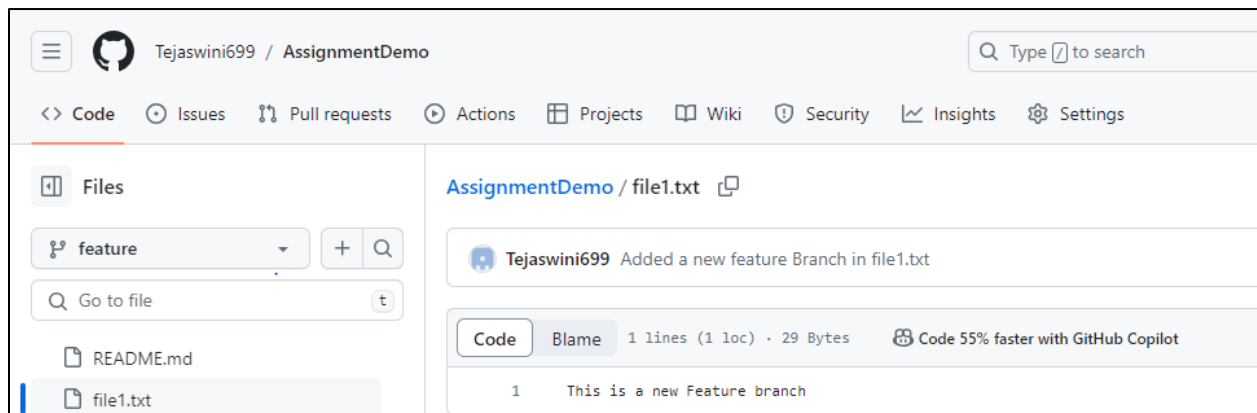
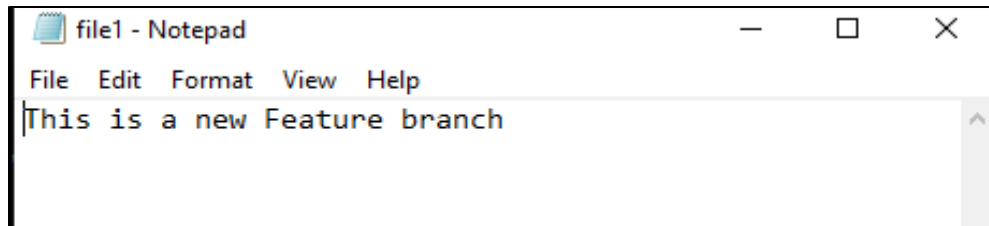
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git log --oneline
cc98b64 (HEAD -> feature, origin/feature) Added a new feature Branch in file1.txt
1632501 (origin/main, origin/HEAD, main) Initial Commit added in file1.txt
1cac9ad Initial commit

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git merge feature
Updating 1632501..cc98b64
Fast-forward
 file1.txt | 2 +-
 hello.txt | 0
 2 files changed, 1 insertion(+), 1 deletion(-)
 create mode 100644 hello.txt

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$

```



## **Assignment 3: Feature Branches and Hotfixes**

**Q. Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved.**

**Steps to follow:**

1. `cd AssignmentDemo/`
2. `git checkout main`
3. `git branch hotfix`
4. `git branch`
5. `git checkout hotfix`
6. `echo "Hotfix: Corrected an issue in file1.txt" > file1.txt`
7. `git add hello.txt`
8. `git commit -m "Apply hotfix to correct an issue in hello.txt"`
9. `git checkout main`
10. `git merge hotfix`
11. `cat file1.txt`
12. `git checkout main`
13. `git push`
14. `git checkout hotfix`
15. `git push --set-upstream origin hotfix`

MINGW64:/c/Users/Dell/Desktop/GitAssignment/AssignmentDemo

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git branch hotfix

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git branch
  feature
  hotfix
* main

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git checkout hotfix
Switched to branch 'hotfix'
M       file1.txt
M       hello.txt

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (hotfix)
$ echo " Hotfix: Corrected an issue in the file1.txt" > file1.txt

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (hotfix)
$ git add .
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (hotfix)
$ git commit -m "Apply hotfix to correct an issue in the file1.txt"
[hotfix afe1bff] Apply hotfix to correct an issue in the file1.txt
 2 files changed, 2 insertions(+), 1 deletion(-)

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (hotfix)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git merge hotfix
Updating 15ec466..afe1bff
Fast-forward
 file1.txt | 2 +-
 hello.txt | 1 +
 2 files changed, 2 insertions(+), 1 deletion(-)

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ cat file1.txt
Hotfix: Corrected an issue in the file1.txt
```

```
Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (feature)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git push
Everything up-to-date

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (main)
$ git checkout hotfix
Switched to branch 'hotfix'

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (hotfix)
$ git push
fatal: The current branch hotfix has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin hotfix

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (hotfix)
$ git push --set-upstream origin hotfix
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'hotfix' on GitHub by visiting:
remote:   https://github.com/Tejaswini699/AssignmentDemo/pull/new/hotfix
remote:
To https://github.com/Tejaswini699/AssignmentDemo.git
 * [new branch]      hotfix -> hotfix
branch 'hotfix' set up to track 'origin/hotfix'.

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (hotfix)
$ git push
Everything up-to-date

Dell@DESKTOP-VSAHR55 MINGW64 ~/Desktop/GitAssignment/AssignmentDemo (hotfix)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```



Branches

New branch

OverviewYoursActiveStaleAll

Q Search branches...

Default

Branch	Updated	Check status	Behind   Ahead	Pull request
main	19 minutes ago		Default	

Your branches

Branch	Updated	Check status	Behind   Ahead	Pull request
hotfix	12 minutes ago		0   0	
feature	1 hour ago		3   0	

Active branches

Branch	Updated	Check status	Behind   Ahead	Pull request
hotfix	12 minutes ago		0   0	

Tejaswini699 / AssignmentDemo

<> CodeIssuesPull requestsActions

AssignmentDemoPublic

main3 Branches0 Tags

Switch branches/tags

Find or create a branch...

BranchesTags

✓ maindefault

feature

hotfix

View all branches

