Assignment – 5

(Git)

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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.

Initialize new git repository:

```
$ git init
Reinitialized existing Git repository in D:/.git/
```

Add command:

```
$ git add .
```

To check the status:

```
$ git status
```

```
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   new text.txt
```

To commit:

```
$ git commit -m "new text file is added"
```

```
[main (root-commit) 5a95dc6] new text file is added
 1 file changed, 1 insertion(+)
 create mode 100644 new text.txt
```

To push:

```
$ git push origin main
```

```
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 253 bytes | 253.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/prakashirrinki/new-repository.git
 * [new branch]      main -> main
```

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.

Branch creation:

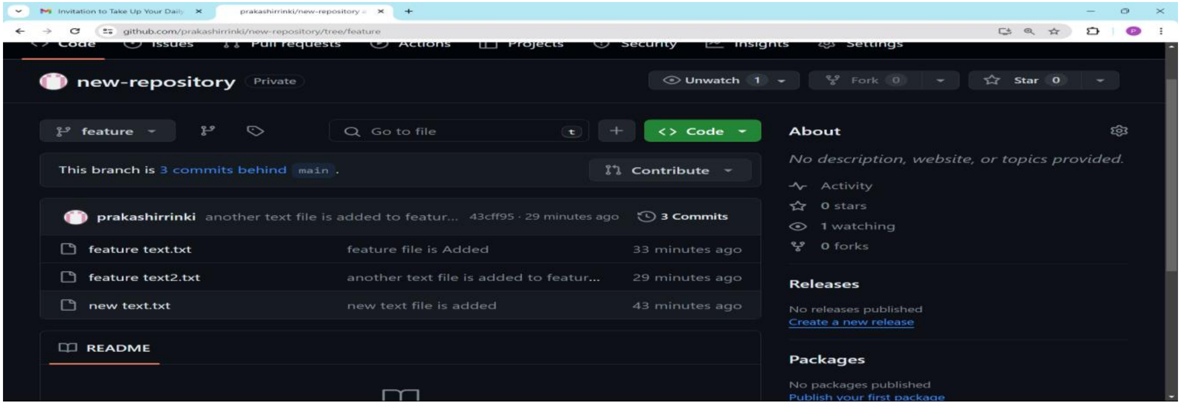
```
$ git branch feature
```

Switching to the new branch:

```
$ git checkout feature

Switched to branch 'feature'
```

After changes done:

```
$ git add .

$ git status

On branch feature
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   feature text.txt

$ git commit -m "feature file is Added"

[feature dbcfa57] feature file is Added
 1 file changed, 1 insertion(+)
 create mode 100644 feature text.txt

$ git push newrepo feature

Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 313 bytes | 313.00 KiB/s, done.
Total 3 (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/prakashirrinki/new-repository/pull/new/feature
remote:
To https://github.com/prakashirrinki/new-repository.git
 * [new branch]      feature -> feature
```



github.com/prakashirrinki/new-repository/tree/feature

new-repository Private

This branch is 3 commits behind main.

prakashirrinki another text file is added to featur... 43cff95 · 29 minutes ago 3 Commits

feature text.txt	feature file is Added	33 minutes ago
feature text2.txt	another text file is added to featur...	29 minutes ago
new text.txt	new text file is added	43 minutes ago

About

No description, website, or topics provided.

Activity
0 stars
1 watching
0 forks

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

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.

Create branch and Switch the branch:

```
$ git checkout -b hotfix

Switched to a new branch 'hotfix'
```

Add, Status, Commit, Push:

```
$ git add hotfix-text.txt


$ git status

On branch hotfix
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   hotfix-text.txt


$ git commit -m "A text file is Added to hotfix branch"

[hotfix 7212539] A text file is Added to hotfix branch
 1 file changed, 1 insertion(+)
 create mode 100644 hotfix-text.txt

$ git push newrepo hotfix

Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 321 bytes | 321.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'hotfix' on GitHub by visiting:
remote:      https://github.com/prakashirrinki/new-repository/pull/new/hotfix
remote:
To https://github.com/prakashirrinki/new-repository.git
 * [new branch]      hotfix -> hotfix
```

After modification switch the branch:

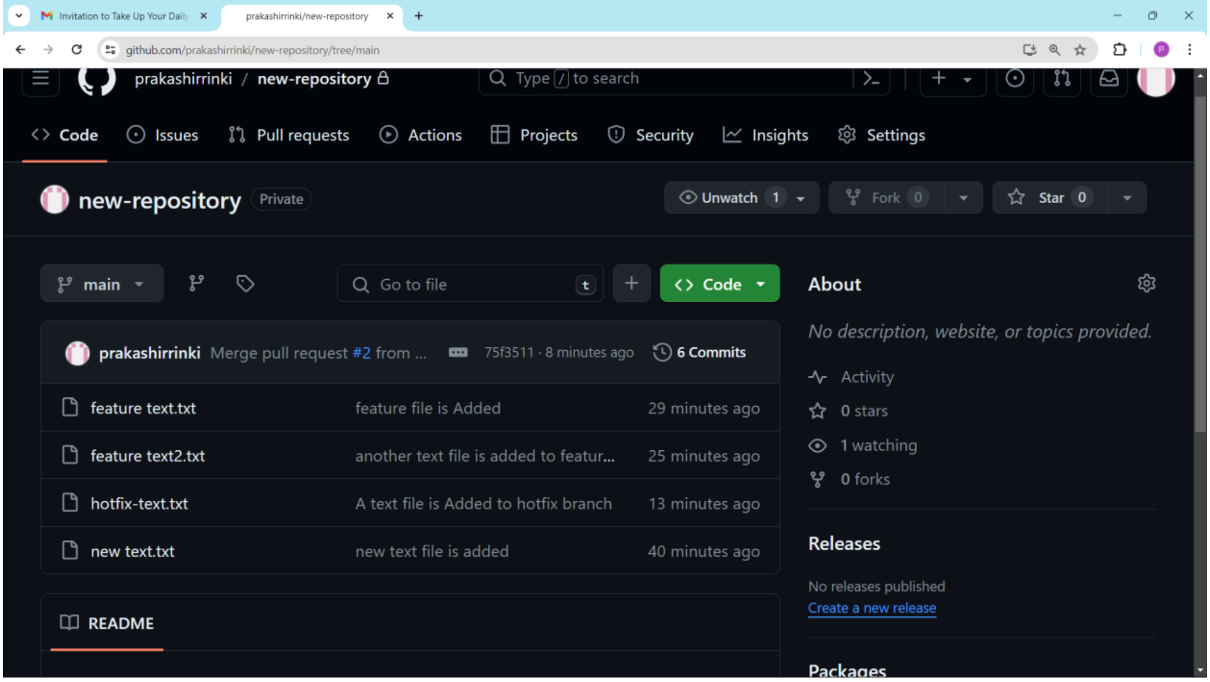
```
$ git checkout main
Switched to branch 'main'
Your branch is based on 'origin/main', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)
```

Merge the branches (main and hotfix):

```
$ git merge hotfix
Updating 5a95dc6..7212539
Fast-forward
```

After merge:

Main branch:


Invitation to Take Up Your Daily
prakashirrinki/new-repository
github.com/prakashirrinki/new-repository/tree/main
prakashirrinki / new-repository
Type / to search
Code
Issues
Pull requests
Actions
Projects
Security
Insights
Settings
Unwatch 1
Fork 0
Star 0
main
Go to file
t
+
Code
README

new-repository Private

prakashirrinki Merge pull request #2 from ... 75f3511 · 8 minutes ago 6 Commits

feature text.txt	feature file is Added	29 minutes ago
feature text2.txt	another text file is added to featur...	25 minutes ago
hotfix-text.txt	A text file is Added to hotfix branch	13 minutes ago
new text.txt	new text file is added	40 minutes ago

About

No description, website, or topics provided.

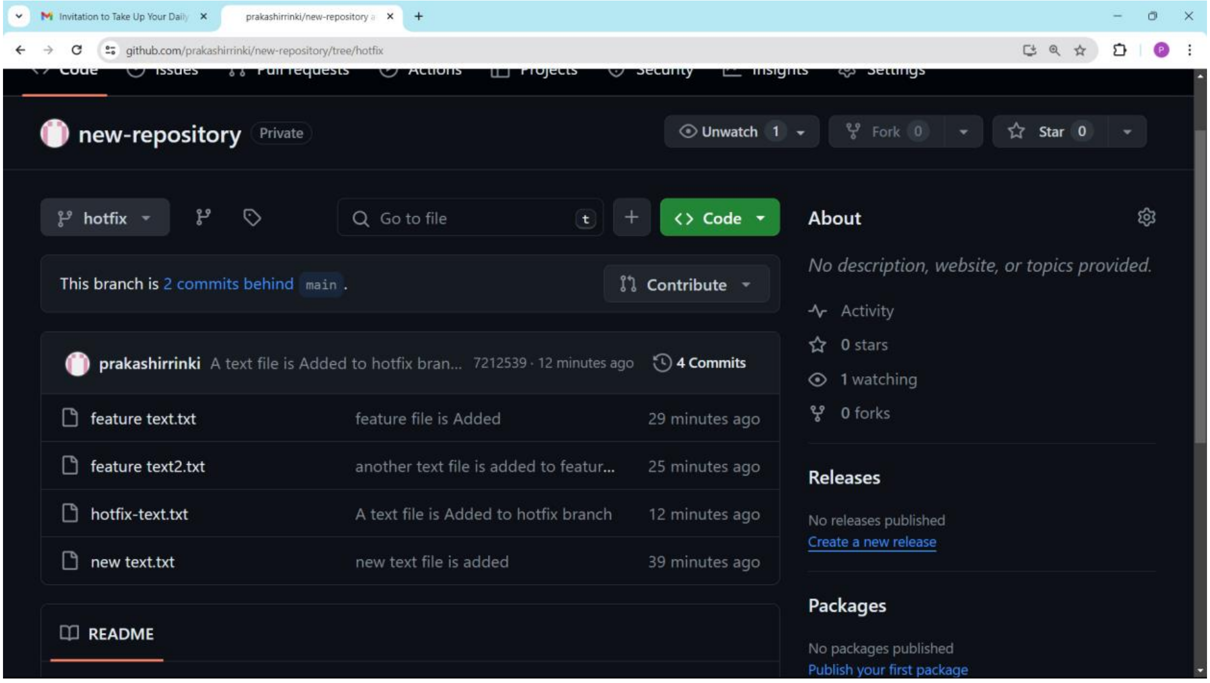
Activity
0 stars
1 watching
0 forks

Releases

No releases published
Create a new release

Packages

Hotfix branch:



new-repository Private

This branch is 2 commits behind `main` .

prakashirrinki A text file is Added to hotfix bran... 7212539 · 12 minutes ago 4 Commits

feature text.txt	feature file is Added	29 minutes ago
feature text2.txt	another text file is added to featur...	25 minutes ago
hotfix-text.txt	A text file is Added to hotfix branch	12 minutes ago
new text.txt	new text file is added	39 minutes ago

About

No description, website, or topics provided.

Activity
0 stars
1 watching
0 forks

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package