Experiment 2

AIM: Setup Git and explore commands related to Version Control System (VCS)

Step 1: Download from https://git-scm.com

Step 2: Configuration

git config --global user.name "hetpatel200608"

git config --global user.email

"hetkumar.bhatasana126413@marwadiuniversity.ac.in"

Step 3:

C:\USERS\HET>git --version

git version 2.43.0.windows.1

C:\USERS\HET>git init

Reinitialized existing Git repository in C:/USERS/HET/.git/

C:\USERS\HET>mkdir ost

C:\USERS\HET>mkdir ost

A subdirectory or file ost already exists.

C:\USERS\HET>git init

Reinitialized existing Git repository in C:/USERS/HET/.git/

C:\USERS\HET>cd ost

C:\USERS\HET\ost>git init

Initialized empty Git repository in C:/USERS/HET/ost/.git/

C:\USERS\HET\ost>git

status On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

C:\USERS\HET\ost>echo

sample.txt sample.txt

C:\USERS\HET\ost>echo

demo.py demo.py

C:\USERS\HET\ost>git

status On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

C:\USERS\HET\ost>dir

Volume in drive C is OS

Volume Serial Number is E2F6-8AB0

Directory of C:\USERS\HET\ost

26-Jan-26 08:29 PM <DIR> .

26-Jan-26 08:22 PM <DIR> ..

0 File(s) 0 bytes

2 Dir(s) 17,472,352,256 bytes free

C:\USERS\HET\ost>echo

sample.txt sample.txt

C:\USERS\HET\ost>dir

Volume in drive C is OS

Volume Serial Number is E2F6-8AB0

Directory of C:\USERS\HET\ost

26-Jan-26 08:29 PM <DIR> .

26-Jan-26 08:22 PM <DIR> ..

0 File(s) 0 bytes

2 Dir(s) 17,472,425,984 bytes free

C:\USERS\HET\ost>echo Hello> sample.txt

C:\USERS\HET\ost>dir

Volume in drive C is OS

Volume Serial Number is E2F6-8AB0

Directory of C:\USERS\HET\ost

26-Jan-26 08:35 PM <DIR> .

26-Jan-26 08:22 PM <DIR> ..

26-Jan-26 08:35 PM 7 sample.txt

1 File(s) 7 bytes

2 Dir(s) 17,471,066,112 bytes free

C:\USERS\HET\ost>type

sample.txt Hello

```
C:\USERS\HET\ost>git commit -m "Initial Commit"
On branch master
Initial commit
Untracked
files:
(use "git add <file>..." to include in what will be committed)
sample.txt
nothing added to commit but untracked files present (use "git add" to track)

C:\USERS\HET\ost>git config --global init.defaultBranch main

C:\USERS\HET\ost>git commit -m "Initial Commit"
On branch master
Initial commit
Untracked
files:
(use "git add <file>..." to include in what will be committed)
sample.txt
nothing added to commit but untracked files present (use "git add" to track)

C:\USERS\HET\ost>git add sample.txt

C:\USERS\HET\ost>git commit -m "Initial Commit"
[master (root-commit) df439d9] Initial Commit
1 file changed, 1 insertion(+)
create mode 100644 sample.txt
```

```
C:\USERS\HET\ost>git branch

* master
* C:\USERS\HET\ost>git branch -m master main


C:\USERS\HET\ost>git branch

* main


C:\USERS\HET\ost>git checkout main

Already on 'main'


C:\USERS\HET\ost>git checkout -b dev

Switched to a new branch 'dev'


C:\USERS\HET\ost>echo Hello from dev>> sample.txt

C:\USERS\ HET\ost>git add .


C:\USERS\HET\ost>git commit -m "Initial commit"

[dev de8fe00] Update in dev

1 file changed, 1 insertion(+)


C:\USERS\HET\ost>git checkout main

Switched to branch 'main'


C:\USERS\HET\ost>git merge dev

Updating df439d9..de8fe00

Fast-forward

sample.txt | 1 +
```

1 file changed, 1 insertion(+)
C:\USERS\HET\ost>dir Volume in drive C is OS
Volume Serial Number is E2F6-8AB0

Directory of

C:\USERS\HET\ost 26-Jan-26

08:48 PM <DIR> .

26-Jan-26 08:44 PM <DIR> ..

26-Jan-26 08:48 PM 23 sample.txt

1 File(s) 23 bytes

2 Dir(s) 17,468,366,848 bytes free

C:\USERS\HET\ost>type

sample.txt Hello

Hello from dev

C:\USERS\HET\ost>git remote -v

C:\USERS\HET\ost>git remote add origin

https://github.com/Userspatel200608/OST_Bhatasana_Users.git

C:\USERS\HET\ost>git remote -v

origin https://github.com/Userspatel200608/OST_Bhatasana_Users.git

(fetch) origin https://github.com/

Userspatel200608/OST_Bhatasana_Users.git (push)

C:\USERS\HET\ost>git push -u origin main

remote: Invalid username or token. Password authentication is not supported for Git operations.

fatal: Authentication failed for 'https://github.com/

Userspatel200608/OST_Bhatasana_Users.git/'

C:\USERS\HET\ost>

C:\USERS\HET\ost>

C:\USERS\HET\ost>git push -u origin main

info: please complete authentication in your browser...

Enumerating objects: 6, done.

Counting objects: 100% (6/6), done.

Delta compression using up to 16

threads Compressing objects: 100%

(2/2), done.

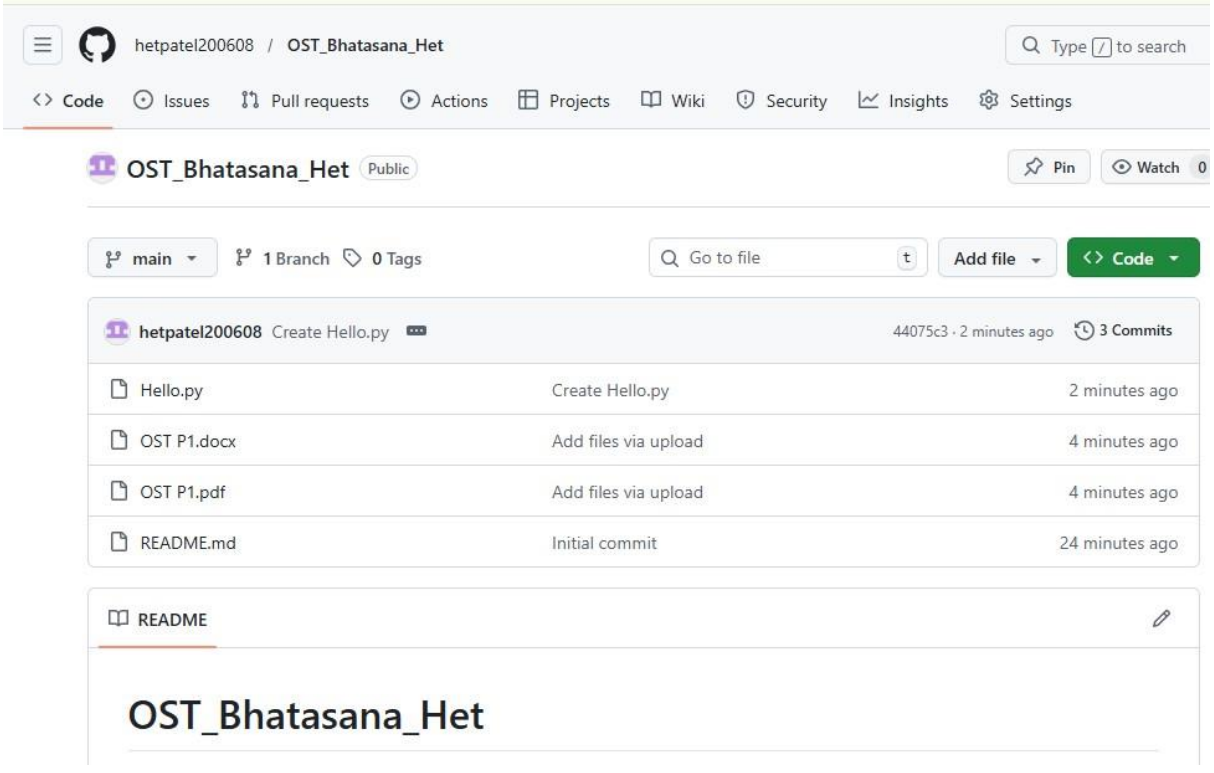
Writing objects: 100% (6/6), 452 bytes | 226.00 KiB/s, done.

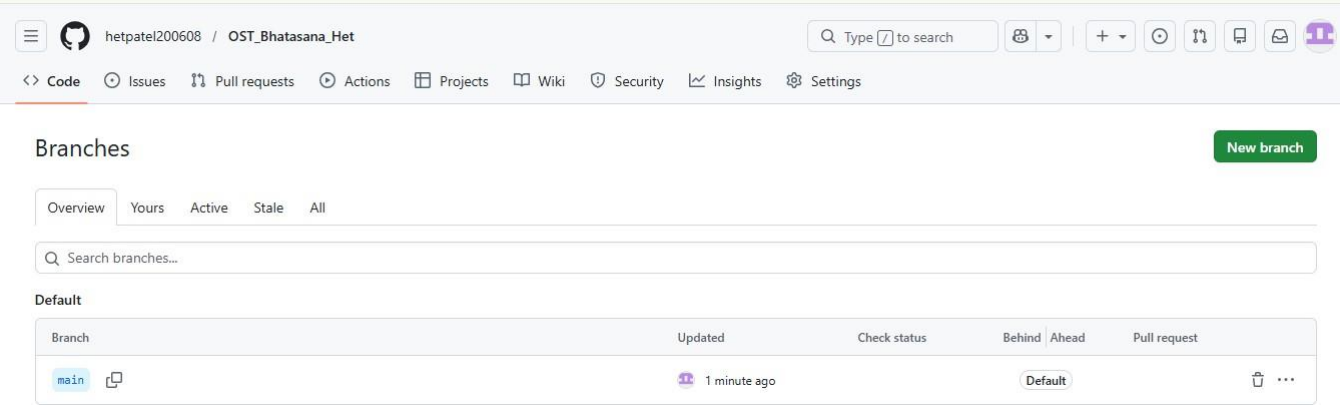
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/Userspatel200608/OST_Bhatasana_Users.git

* [new branch] main -> main

branch 'main' set up to track 'origin/main'.




hetpatel200608 / OST_Bhatasana_Het
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Branch
Updated
Check status
Behind
Ahead
Pull request
main
1 minute ago
Default