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 "koradiyavasu"

git config --global user.email "vasukoradiyar@gmail.com" Step

3:

C:\Users\DELL>git --version

git version 2.43.0.windows.1

C:\Users\DELL>git init

Reinitialized existing Git repository in C:/Users/DELL/.git/

C:\Users\DELL>mkdir ost

C:\Users\DELL>mkdir ost

A subdirectory or file ost already exists.

C:\Users\DELL>git init

Reinitialized existing Git repository in C:/Users/DELL/.git/

C:\Users\DELL>cd ost

C:\Users\DELL\ost>git init

Initialized empty Git repository in C:/Users/DELL/ost/.git/

```
C:\Users\DELL\ost>git status
On branch master
No commits yet
nothing to commit (create/copy files and use "git add" to track)

C:\Users\DELL\ost>echo sample.txt
sample.txt
C:\Users\DELL\ost>echo demo.py
demo.py

C:\Users\DELL\ost>git status
On branch master
No commits yet
nothing to commit (create/copy files and use "git add" to track)

C:\Users\DELL\ost>dir
Volume in drive C is OS
Volume Serial Number is E2F6-8AB0
Directory of C:\Users\DELL\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\DELL\ost>echo sample.txt
sample.txt
```

```
C:\Users\DELL\ost>dir
Volume in drive C is OS
Volume Serial Number is E2F6-8AB0
Directory of C:\Users\DELL\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\DELL\ost>echo Hello> sample.txt

C:\Users\DELL\ost>dir
Volume in drive C is OS
Volume Serial Number is E2F6-8AB0
Directory of C:\Users\DELL\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\DELL\ost>type sample.txt
Hello
```

```
C:\Users\DELL\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\DELL\ost>git config --global init.defaultBranch main

C:\Users\DELL\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\DELL\ost>git add sample.txt

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

```
C:\Users\DELL\ost>git branch -m master main

C:\Users\DELL\ost>git branch
* main

C:\Users\DELL\ost>git checkout main
Already on 'main'

C:\Users\DELL\ost>git checkout -b dev
Switched to a new branch 'dev'

C:\Users\DELL\ost>echo Hello from dev>> sample.txt
C:\Users\DELL\ost>git add .

C:\Users\DELL\ost>git commit -m "Update in dev"
[dev de8fe00] Update in dev
1 file changed, 1 insertion(+)

C:\Users\DELL\ost>git checkout main
Switched to branch 'main'

C:\Users\DELL\ost>git merge dev
Updating df439d9..de8fe00
Fast-forward
sample.txt | 1 +
1 file changed, 1 insertion(+)
```

C:\Users\DELL\ost>dir

Volume in drive C is OS

Volume Serial Number is E2F6-8AB0

Directory of C:\Users\DELL\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\DELL\ost>type sample.txt

Hello

Hello from dev

C:\Users\DELL\ost>git remote -v

C:\Users\DELL\ost>git remote add origin

https://github.com/koradiyavasu/ostdemo.git

C:\Users\DELL\ost>git remote -v

origin https://github.com/koradiyavasu /ostdemo.git (fetch)

origin https://github.com/ koradiyavasu/ostdemo.git (push)

C:\Users\DELL\ost>git push -u origin main

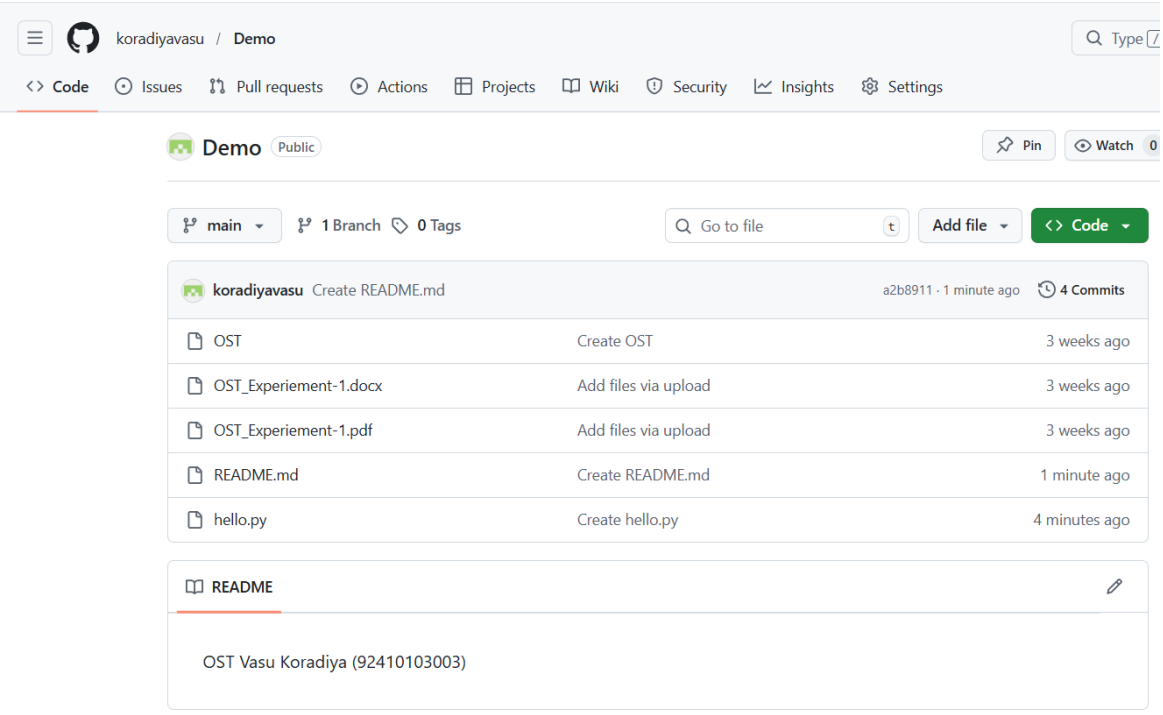
remote: Invalid username or token. Password authentication is not supported for Git operations.

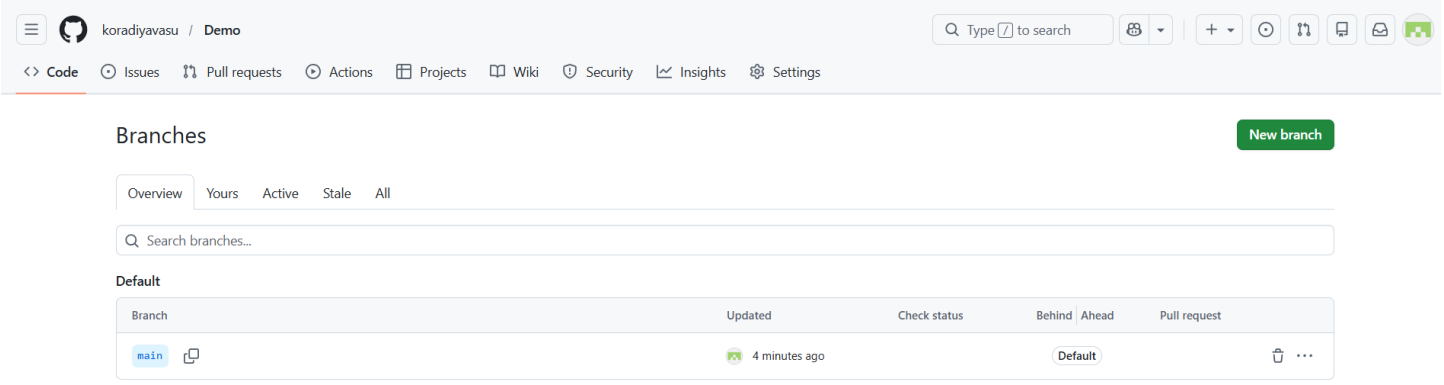
fatal: Authentication failed for 'https://github.com/ koradiyavasu/ostdemo.git/'

```
C:\Users\DELL\ost>

C:\Users\DELL\ost>


C:\Users\DELL\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/koradiyavasu/ostdemo.git
* [new branch] main -> main
branch 'main' set up to track 'origin/main'.
```




koradiyavasu / Demo
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New branch
Overview
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Branch
Updated
Check status
Behind
Ahead
Pull request
main
4 minutes ago
Default