

Experiment 2

AIM: Setup Git and Explore Commands Related to Version Control System (VCS)

Microsoft Windows [Version 10.0.26200.7705]
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```
C:\Users\DEEPAK KUMAR>git --version  
git version 2.47.0.windows.1
```

```
C:\Users\DEEPAK KUMAR>git init  
Reinitialized existing Git repository in C:/Users/DEEPAK KUMAR/.git/
```

```
C:\Users\DEEPAK KUMAR>mkdir ost_2
```

```
C:\Users\DEEPAK KUMAR>cd ost_2
```

```
C:\Users\DEEPAK KUMAR\ost_2>git init  
Initialized empty Git repository in C:/Users/DEEPAK KUMAR/ost_2/.git/
```

```
C:\Users\DEEPAK KUMAR\ost_2>git status  
On branch master
```

No commits yet

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

```
N  
C:\Users\DEEPAK KUMAR\ost_2>echo sample.txt  
sample.txt
```

```
C:\Users\DEEPAK KUMAR\ost_2>echo demo.txt  
demo.txt
```

```
C:\Users\DEEPAK KUMAR\ost_2>git status  
On branch master
```

No commits yet

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

```
C:\Users\DEEPAK KUMAR\ost_2>echo sample.txt  
sample.txt
```

```
C:\Users\DEEPAK KUMAR\ost_2>dir  
Volume in drive C has no label.  
Volume Serial Number is CED0-0A13
```

Directory of C:\Users\DEEPAK KUMAR\ost_2

```
09-Feb-26 10:33 PM <DIR>      .
09-Feb-26 10:33 PM <DIR>      ..
                0 File(s)      0 bytes
                2 Dir(s) 11,248,803,840 bytes free
```

C:\Users\DEEPAK KUMAR\ost_2>echo Hello>sample.txt

C:\Users\DEEPAK KUMAR\ost_2>type sample.txt

Hello

C:\Users\DEEPAK KUMAR\ost_2>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\DEEPAK KUMAR\ost_2>git add sample.txt

C:\Users\DEEPAK KUMAR\ost_2>git commit -m "initial Commit"

[master (root-commit) d320d08] initial Commit

1 file changed, 1 insertion(+)

create mode 100644 sample.txt

C:\Users\DEEPAK KUMAR\ost_2>git branch

* master

C:\Users\DEEPAK KUMAR\ost_2>git branch -m master main

C:\Users\DEEPAK KUMAR\ost_2>git branch

- Main
- C:\Users\DEEPAK KUMAR\ost_2>git checkout main
- Already on 'main'
- C:\Users\DEEPAK KUMAR\ost_2>git checkout -b dev
- Switched to a new branch 'dev'

```
C:\Users\DEEPAK KUMAR\ost_2>echo Hello from dev>>sample.txt
```

```
C:\Users\DEEPAK KUMAR\ost_2>git add.
```

```
git: 'add.' is not a git command. See 'git --help'.
```

The most similar command is

add

```
C:\Users\DEEPAK KUMAR\ost_2>git add
```

```
Nothing specified, nothing added.
```

```
hint: Maybe you wanted to say 'git add .'?
```

```
hint: Disable this message with "git config advice.addEmptyPathsSpec false"
```

```
C:\Users\DEEPAK KUMAR\ost_2>git add .
```

```
C:\Users\DEEPAK KUMAR\ost_2>git commit -m"Update in dev"
```

```
[dev 4dbb795] Update in dev
```

```
1 file changed, 1 insertion(+)
```

```
C:\Users\DEEPAK KUMAR\ost_2>git merge dev
```

```
Already up to date.
```

```
C:\Users\DEEPAK KUMAR\ost_2>dir
```

```
Volume in drive C has no label.
```

```
Volume Serial Number is CED0-0A13
```

```
Directory of C:\Users\DEEPAK KUMAR\ost_2
```

```
09-Feb-26 10:36 PM <DIR> .
```

```
09-Feb-26 10:45 PM N<DIR> ..
```

```
09-Feb-26 10:46 PM 23 sample.txt
```

```
1 File(s) 23 bytes
```

```
2 Dir(s) 11,240,759,296 bytes free
```

```
C:\Users\DEEPAK KUMAR\ost_2>type sample.txt
```

```
Hello
```

```
Hello from dev
```

```
C:\Users\DEEPAK KUMAR\ost_2>git remote -v
```

```
C:\Users\DEEPAK KUMAR\ost_2>git remote add origin
```

```
usage: git remote add [<options>] <name> <url>
```

```
-f, --[no-]fetch      fetch the remote branches
--[no-]tags           import all tags and associated objects when fetching
                        or do not fetch any tag at all (--no-tags)
-t, --[no-]track <branch>
                        branch(es) to track
-m, --[no-]master <branch>
                        master branch
--[no-]mirror[=(push|fetch)]
                        set up remote as a mirror to push to or fetch from
```

```
C:\Users\DEEPAK KUMAR\ost_2>git remote add origin https://github.com/Yadavmrdeepakkumar/ost-Deepak
```

```
C:\Users\DEEPAK KUMAR\ost_2>git remote -v
```

```
origin https://github.com/Yadavmrdeepakkumar/ost-Deepak (fetch)
```

```
origin https://github.com/Yadavmrdeepakkumar/ost-Deepak (push)
```

```
C:\Users\DEEPAK KUMAR\ost_2>git push -u origin main
```

```
To https://github.com/Yadavmrdeepakkumar/ost-Deepak
```

```
! [rejected]      main -> main (fetch first)
```

```
error: failed to push some refs to 'https://github.com/Yadavmrdeepakkumar/ost-Deepak'
```

```
hint: Updates were rejected because the remote contains work that you do not
```

```
hint: have locally. This is usually caused by another repository pushing to
```

```
hint: the same ref. If you want to integrate the remote changes, use
```

```
hint: 'git pull' before pushing again.
```

```
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

```
C:\Users\DEEPAK KUMAR\ost_2>git push -u origin main
```

```
remote: Permission to Yadavmrdeepakkumar/ost-Deepak.git denied to Deepakk02546.
```

```
fatal: unable to access 'https://github.com/Yadavmrdeepakkumar/ost-Deepak/': The requested URL
returned error: 403
```

```
C:\Users\DEEPAK KUMAR\ost_2>git checkout main
```

```
Switched to branch 'main'
```

```
C:\Users\DEEPAK KUMAR\ost_2>git pull origin main
```

```
remote: Enumerating objects: 9, done.
```

```
remote: Counting objects: 100% (9/9), done.
```

```
remote: Compressing objects: 100% (7/7), done.
```

```
remote: Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
```

```
Unpacking objects: 100% (9/9), 331.67 KiB | 379.00 KiB/s, done.
```

```
From https://github.com/Yadavmrdeepakkumar/ost-Deepak
```

```
* branch      main    -> FETCH_HEAD
```

```
* [new branch] main    -> origin/main
```

```
fatal: refusing to merge unrelated histories
```

```
C:\Users\DEEPAK KUMAR\ost_2>git add .
```

```
C:\Users\DEEPAK KUMAR\ost_2>git commit -m "Resolved merge conflicts"
```

```
On branch main
```

```
nothing to commit, working tree clean
```

```
C:\Users\DEEPAK KUMAR\ost_2>git push origin main
```

```
remote: Permission to Yadavmrdeepakkumar/ost-Deepak.git denied to Deepakk02546.
```

```
fatal: unable to access 'https://github.com/Yadavmrdeepakkumar/ost-Deepak/': The requested URL returned error: 403
```

```
C:\Users\DEEPAK KUMAR\ost_2>git push origin main
```

```
To https://github.com/Yadavmrdeepakkumar/ost-Deepak
```

```
! [rejected]      main -> main (non-fast-forward)
```

```
error: failed to push some refs to 'https://github.com/Yadavmrdeepakkumar/ost-Deepak'
```

```
hint: Updates were rejected because the tip of your current branch is behind
```

```
hint: its remote counterpart. If you want to integrate the remote changes,
```

```
hint: use 'git pull' before pushing again.
```

```
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

```
C:\Users\DEEPAK KUMAR\ost_2>git pull --rebase origin main
```

```
From https://github.com/Yadavmrdeepakkumar/ost-Deepak
```

```
* branch      main    -> FETCH_HEAD
```

```
Successfully rebased and updated refs/heads/main.
```

```
C:\Users\DEEPAK KUMAR\ost_2>git push origin main
```

```
remote: Permission to Yadavmrdeepakkumar/ost-Deepak.git denied to Deepakk02546.
```

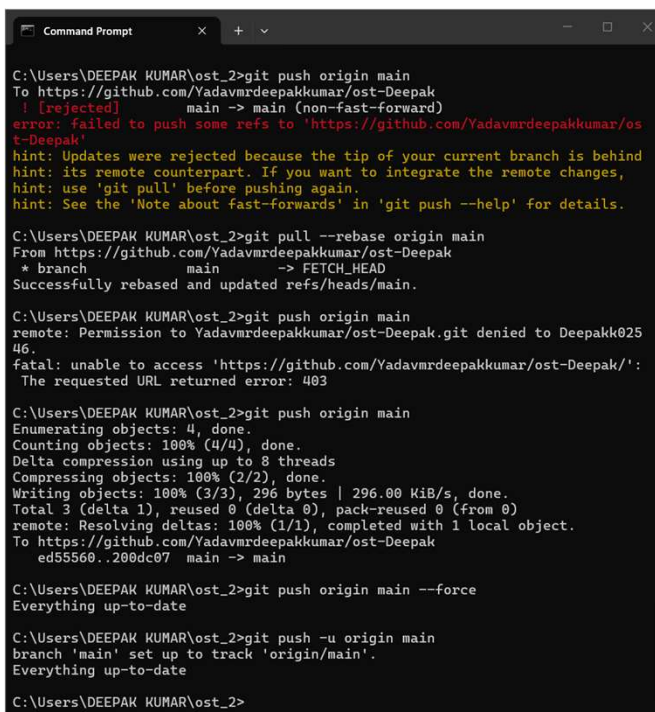
```
fatal: unable to access 'https://github.com/Yadavmrdeepakkumar/ost-Deepak/': The requested URL returned error: 403
```

```
C:\Users\DEEPAK KUMAR\ost_2>git push origin main
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), 296 bytes | 296.00 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.
To https://github.com/Yadavmrdeepakkumar/ost-Deepak
ed55560..200dc07  main -> main
```

```
C:\Users\DEEPAK KUMAR\ost_2>git push origin main --force
Everything up-to-date
```

```
C:\Users\DEEPAK KUMAR\ost_2>git push -u origin main
branch 'main' set up to track 'origin/main'.
Everything up-to-date
```

```
C:\Users\DEEPAK KUMAR\ost_2>
```



```
Command Prompt
C:\Users\DEEPAK KUMAR\ost_2>git push origin main
To https://github.com/Yadavmrdeepakkumar/ost-Deepak
 ! [rejected]        main -> main (non-fast-forward)
error: failed to push some refs to 'https://github.com/Yadavmrdeepakkumar/ost-Deepak'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. If you want to integrate the remote changes,
hint: use 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

C:\Users\DEEPAK KUMAR\ost_2>git pull --rebase origin main
From https://github.com/Yadavmrdeepakkumar/ost-Deepak
 * branch            main       -> FETCH_HEAD
Successfully rebased and updated refs/heads/main.

C:\Users\DEEPAK KUMAR\ost_2>git push origin main
remote: Permission to Yadavmrdeepakkumar/ost-Deepak.git denied to Deepakk02546.
fatal: unable to access 'https://github.com/Yadavmrdeepakkumar/ost-Deepak/':
The requested URL returned error: 403

C:\Users\DEEPAK KUMAR\ost_2>git push origin main
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), 296 bytes | 296.00 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.
To https://github.com/Yadavmrdeepakkumar/ost-Deepak
ed55560..200dc07  main -> main

C:\Users\DEEPAK KUMAR\ost_2>git push origin main --force
Everything up-to-date

C:\Users\DEEPAK KUMAR\ost_2>git push -u origin main
branch 'main' set up to track 'origin/main'.
Everything up-to-date

C:\Users\DEEPAK KUMAR\ost_2>
```

