

## Experiment No. 2

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

```
student@MC309-192 MINGW64 ~
```

```
$ cd /c/
```

```
student@MC309-192 MINGW64 /c
```

```
$ echo $HOME
```

```
/z/
```

```
student@MC309-192 MINGW64 /c
```

```
$ export HOME=/c/Users/student
```

```
student@MC309-192 MINGW64 /c
```

```
$ git config --global user.name "Pratham Gajra"
```

```
git config --global user.email "gajrapratham15@email.com"
```

```
student@MC309-192 MINGW64 /c
```

```
$ C:\Users\ravik.RAVIKUMAR>git --version
```

```
git version 2.43.0.windows.1
```

```
bash: git: Operation not permitted
```

```
git version 2.52.0.windows.1
```

```
student@MC309-192 MINGW64 /c
```

```
$ git --version
```

```
git version 2.52.0.windows.1
```

```
student@MC309-192 MINGW64 /c
```

```
$ git init
```

```
Initialized empty Git repository in C:/./git/
```

```
student@MC309-192 MINGW64 /c
```

```
$ mkdir ost
```

```
student@MC309-192 MINGW64 /c
```

```
$ mkdir ost
```

```
mkdir: cannot create directory 'ost': File exists
```

```
student@MC309-192 MINGW64 /c
```

```
$ git init
```

```
Reinitialized existing Git repository in C:/./git/
```

```
student@MC309-192 MINGW64 /c
```

```
$ cd ost
```

```
student@MC309-192 MINGW64 /c/ost
```

```
$ git init
```

```
Initialized empty Git repository in C:/ost/.git/
```

```
student@MC309-192 MINGW64 /c/ost (master)
```

```
$ git status
```

```
On branch master
```

```
No commits yet
```

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

```
student@MC309-192 MINGW64 /c/ost (master)
```

```
$ echo sample.txt
```

```
sample.txt
```

```
student@MC309-192 MINGW64 /c/ost (master)
```

```
$ echo demo.py
```

```
demo.py
```

```
student@MC309-192 MINGW64 /c/ost (master)
```

```
$ git status
```

```
On branch master
```

```
No commits yet
```

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

```
student@MC309-192 MINGW64 /c/ost (master)
```

```
$ dir
```

```
student@MC309-192 MINGW64 /c/ost (master)
```

```
$ echo sample.txt
```

```
sample.txt
```

```
student@MC309-192 MINGW64 /c/ost (master)
```

```
$ dir
```

```
student@MC309-192 MINGW64 /c/ost (master)
```

```
$ echo Hello> sample.txt
```

```
student@MC309-192 MINGW64 /c/ost (master)
```

```
$ dir
sample.txt
```

```
student@MC309-192 MINGW64 /c/ost (master)
$ type sample.txt
bash: type: sample.txt: not found
```

```
student@MC309-192 MINGW64 /c/ost (master)
$ cat sample.txt
Hello
```

```
student@MC309-192 MINGW64 /c/ost (master)
$ 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)

```
student@MC309-192 MINGW64 /c/ost (master)
$ 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)

```
student@MC309-192 MINGW64 /c/ost (master)
$ git add sample.txt
warning: in the working copy of 'sample.txt', LF will be replaced by CRLF the next time Git touches it
```

```
student@MC309-192 MINGW64 /c/ost (master)
$ git commit -m "Initial Commit"
[master (root-commit) 37e23f8] Initial Commit
1 file changed, 1 insertion(+)
```

create mode 100644 sample.txt

student@MC309-192 MINGW64 /c/ost (master)

\$ git branch

\* master

student@MC309-192 MINGW64 /c/ost (master)

\$ git branch -m master main

student@MC309-192 MINGW64 /c/ost (main)

\$ git branch

\* main

student@MC309-192 MINGW64 /c/ost (main)

\$ git checkout main

Already on 'main'

student@MC309-192 MINGW64 /c/ost (main)

\$ git checkout -b dev

Switched to a new branch 'dev'

student@MC309-192 MINGW64 /c/ost (dev)

\$ echo Hello from dev>> sample.txt

student@MC309-192 MINGW64 /c/ost (dev)

\$ git add

Nothing specified, nothing added.

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

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

student@MC309-192 MINGW64 /c/ost (dev)

\$ git add .

warning: in the working copy of 'sample.txt', LF will be replaced by CRLF the next time Git touches it

student@MC309-192 MINGW64 /c/ost (dev)

\$ git commit -m "Update in dev"

[dev 75356ba] Update in dev

1 file changed, 1 insertion(+)

student@MC309-192 MINGW64 /c/ost (dev)

\$ git merge dev

Already up to date.

```
student@MC309-192 MINGW64 /c/ost (dev)
$ dir
sample.txt
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ type sample.txt
bash: type: sample.txt: not found
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ cat sample.txt
Hello
Hello from dev
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ git remote -v
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ git remote add origin https://github.com/Pratham20695/OST-PrathamGajra106.git
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ git remote -v
origin https://github.com/Pratham20695/OST-PrathamGajra106.git (fetch)
origin https://github.com/Pratham20695/OST-PrathamGajra106.git (push)
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ git push -u origin main
fatal: User cancelled dialog.
error: unable to read askpass response from 'C:/Users/student/AppData/Local/Programs/Git/mingw64/bin/git-askpass.exe'
Username for 'https://github.com':
remote: No anonymous write access.
fatal: Authentication failed for 'https://github.com/Pratham20695/OST-PrathamGajra106.git'
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ git push -u origin main
info: please complete authentication in your browser...
To https://github.com/Pratham20695/OST-PrathamGajra106.git
```

```
! [rejected]      main -> main (fetch first)
error: failed to push some refs to 'https://github.com/Pratham20695/OST-PrathamGajra106.git'
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.
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ git push -u origin main
To https://github.com/Pratham20695/OST-PrathamGajra106.git
! [rejected]      main -> main (fetch first)
error: failed to push some refs to 'https://github.com/Pratham20695/OST-PrathamGajra106.git'
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.
```

```
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 10 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (10/10), 474.16 KiB | 905.00 KiB/s, done.
From https://github.com/Pratham20695/OST-PrathamGajra106
* branch      main      -> FETCH_HEAD
* [new branch] main      -> origin/main
Merge made by the 'ort' strategy.
```

```
01CE0618 - Open Source Technologies Syllabus.pdf | 5757 ++++++
OST-ex1.docx | Bin 0 -> 219831 bytes
OST-ex1.pdf | Bin 0 -> 116178 bytes
README.md | 2 +
4 files changed, 5759 insertions(+)
create mode 100644 01CE0618 - Open Source Technologies Syllabus.pdf
create mode 100644 OST-ex1.docx
create mode 100644 OST-ex1.pdf
create mode 100644 README.md
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ git push -u origin main
To https://github.com/Pratham20695/OST-PrathamGajra106.git
! [rejected] main -> main (non-fast-forward)
error: failed to push some refs to 'https://github.com/Pratham20695/OST-PrathamGajra106.git'
hint: Updates were rejected because a pushed branch tip is behind its remote
hint: counterpart. If you want to integrate the remote changes, use 'git pull'
hint: before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

```
student@MC309-192 MINGW64 /c/ost (dev)
$ git branch
* dev
main
```

From <https://github.com/Pratham20695/OST-PrathamGajra106>

\* branch main -> FETCH\_HEAD

Merge made by the 'ort' strategy.

01CE0618 - Open Source Technologies Syllabus.pdf | 5757 ++++++

OST-ex1.docx | Bin 0 -> 219831 bytes

OST-ex1.pdf | Bin 0 -> 116178 bytes

README.md | 2 +

4 files changed, 5759 insertions(+)

create mode 100644 01CE0618 - Open Source Technologies Syllabus.pdf

create mode 100644 OST-ex1.docx

create mode 100644 OST-ex1.pdf

create mode 100644 README.md

student@MC309-192 MINGW64 /c/ost (main)

\$ git push -u origin main

Enumerating objects: 6, done.

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

Delta compression using up to 6 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (5/5), 529 bytes | 529.00 KiB/s, done.

Total 5 (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/Pratham20695/OST-PrathamGajra106.git>

d4ba1a1..ef99062 main -> main

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



OST-PrathamGajra106Public

PinWatch0

main1 Branch0 Tags

Go to file

Add file

Code

Pratham GajraMerge branch 'main' of https://github.com/Pratham20695/OST-PrathamGajra106 · e99062 · 6 minutes ago · 5 Commits

01CE0618 - Open Source Technologies Syllabu...	Add files via upload	last week
OST-ex1.docx	Add files via upload	last week
OST-ex1.pdf	Add files via upload	last week
README.md	Initial commit	last week
sample.txt	Initial Commit	23 minutes ago

README

OST-PrathamGajra106

OST subject

```
From https://github.com/Pratham20695/OST-PrathamGajra106
* branch            main      -> FETCH_HEAD
Merge made by the 'ort' strategy.
 01CE0618 - Open Source Technologies Syllabus.pdf | 5757 ++++++
OST-ex1.docx                                     | Bin 0 -> 219831 bytes
OST-ex1.pdf                                       | Bin 0 -> 116178 bytes
README.md                                         | 2 +
4 files changed, 5759 insertions(+)
create mode 100644 01CE0618 - Open Source Technologies Syllabus.pdf
create mode 100644 OST-ex1.docx
create mode 100644 OST-ex1.pdf
create mode 100644 README.md

student@MC309-192 MINGW64 /c/ost (main)
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 6 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 529 bytes | 529.00 KiB/s, done.
Total 5 (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/Pratham20695/OST-PrathamGajra106.git
 d4ba1a1..ef99062  main -> main
branch 'main' set up to track 'origin/main'.

student@MC309-192 MINGW64 /c/ost (main)
$ ^C

student@MC309-192 MINGW64 /c/ost (main)
$ |
```