

## Experiment No. 2

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

```
student@MC309-193 MINGW64 /c/Users/student/Desktop/YT
$ echo $HOME
/z/
```

```
student@MC309-193 MINGW64 /c/Users/student/Desktop/YT
$ export HOME=/c/Users/student
```

```
student@MC309-193 MINGW64 ~/Desktop/YT
$ git config --global user.name "yashtalaviya5"
git config --global user.email "yash.070752@gmail.com"
```

```
student@MC309-193 MINGW64 ~/Desktop/YT
$ git --version
git version 2.52.0.windows.1
```

```
student@MC309-193 MINGW64 ~/Desktop/YT
$ mkdir ost
```

```
student@MC309-193 MINGW64 ~/Desktop/YT
$ mkdir ost
mkdir: cannot create directory 'ost': File exists
```

```
student@MC309-193 MINGW64 ~/Desktop/YT
$ git init
Initialized empty Git repository in C:/Users/student/Desktop/YT/.git/
```

```
student@MC309-193 MINGW64 ~/Desktop/YT (master)
$ cd ost
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ git init
Initialized empty Git repository in C:/Users/student/Desktop/YT/ost/.git/
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ git status
On branch master
```

No commits yet

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

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ echo sample.txt
sample.txt
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ echo demo.py
demo.py
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ git status
On branch master
```

No commits yet

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

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ dir
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ echo sample.txt
sample.txt
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ dir
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ echo Hello> sample.txt
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ dir
sample.txt
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ cat sample.txt
Hello
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/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@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ git config --global init.defaultBranch main
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/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@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ git add sample.txt
warning: in the working copy of 'sample.txt', LF will be replaced by CRLF the ne
xt time Git touches it
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ git commit -m "Initial Commit"
[master (root-commit) 8840a84] Initial Commit
1 file changed, 1 insertion(+)
create mode 100644 sample.txt
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ git branch
* master
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (master)
$ git branch -m master main
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
$ git branch
* main
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
$ git checkout main
```

Already on 'main'

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
```

```
$ git checkout -b dev
```

Switched to a new branch 'dev'

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (dev)
```

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

```
student@MC309-193 MINGW64 ~/Desktop/YT/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@MC309-193 MINGW64 ~/Desktop/YT/ost (dev)
```

```
$ git commit -m "Update in dev"
```

```
[dev 03c9065] Update in dev
```

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

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (dev)
```

```
$ git checkout main
```

Switched to branch 'main'

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
```

```
$ git merge dev
```

```
Updating 8840a84..03c9065
```

```
Fast-forward
```

```
sample.txt | 1 +
```

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

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
```

```
$ dir
```

```
sample.txt
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
```

```
$ cat sample.txt
```

```
Hello
```

```
Hello from dev
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
```

```
$ git remote -v
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
```

```
$ git remote add origin https://github.com/yashtalaviya5/OST-YashTalaviya105
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
$ git remote -v
origin https://github.com/yashtalaviya5/OST-YashTalaviya105 (fetch)
origin https://github.com/yashtalaviya5/OST-YashTalaviya105 (push)
```

```
student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
$ git push -u origin main
```

```
remote: Enumerating objects: 13, done.
remote: Counting objects: 100% (13/13), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 13 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (13/13), 488.67 KiB | 914.00 KiB/s, done.
From https://github.com/yashtalaviya5/OST-YashTalaviya105
* branch      main      -> FETCH_HEAD
* [new branch] main      -> origin/main
Merge made by the 'ort' strategy.
01CE0618 - Open Source Technologies Syllabus.pdf | Bin 0 -> 197419 bytes
OST EX1.docx                                | Bin 0 -> 220364 bytes
OST EX1.pdf                                | Bin 0 -> 138667 bytes
README.md                                  | 2 ++
4 files changed, 2 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@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
$ git push -u origin main
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 6 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (8/8), 764 bytes | 764.00 KiB/s, done.
Total 8 (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/yashtalaviya5/OST-YashTalaviya105
 3cc5124..c7476f6 main -> main
branch 'main' set up to track 'origin/main'.
```

github.com/yashtalaviya5/OST-YashTalaviya105

yashtalaviya5 / OST-YashTalaviya105

CodeIssuesPull requestsActionsProjectsWikiSecurityInsightsSettings

OST-YashTalaviy...PublicPinWatch0Fork0Star0

mainGo to fileCode

yashtalaviya5Merge branch '...'c7476f6 · 13 minutes ago

01CE0618 - Open ...Add files via uploadlast week

OST EX1.docxAdd files via uploadlast week

OST EX1.pdfAdd files via uploadlast week

README.mdUpdate README.mdlast week

sample.txtUpdate in dev20 minutes ago

ReadmeActivity0 stars0 watching0 forks

ReleasesNo releases publishedCreate a new release

PackagesNo packages publishedPublish your first package

OST SUBJECT REPOSITORY

OST SUBJECT REPOSITORY

```
remote: Enumerating objects: 13, done.
remote: Counting objects: 100% (13/13), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 13 (delta 3), reused 0 (delta 0), pack-reused 0 (f
Unpacking objects: 100% (13/13), 488.67 KiB | 914.00 KiB/s, done
From https://github.com/yashtalaviya5/OST-YashTalaviya105
* branch      main      -> FETCH_HEAD
* [new branch]   main      -> origin/main
Merge made by the 'ort' strategy.
01CE0618 - Open Source Technologies Syllabus.pdf | Bin 0 -> 197
OST EX1.docx | Bin 0 -> 220
OST EX1.pdf | Bin 0 -> 138
README.md | 2 ++
4 files changed, 2 insertions(+)
create mode 100644 01CE0618 - Open Source Technologies Syllabus
create mode 100644 OST EX1.docx
create mode 100644 OST EX1.pdf
create mode 100644 README.md

student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
$ git push -u origin main
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 6 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (8/8), 764 bytes | 764.00 KiB/s, done.
Total 8 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local obj
To https://github.com/yashtalaviya5/OST-YashTalaviya105
3cc5124..c7476f6  main -> main
branch 'main' set up to track 'origin/main'.

student@MC309-193 MINGW64 ~/Desktop/YT/ost (main)
$
```