

## **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'.
```

The screenshot shows a GitHub repository page for 'OST-YashTalaviya105' and a terminal window running on MINGW64.

**GitHub Repository Page:**

- Header:** GitHub URL: [github.com/yashtalaviya5/OST-YashTalaviya105](https://github.com/yashtalaviya5/OST-YashTalaviya105)
- Repository Information:** Owner: yashtalaviya5 / OST-YashTalaviya105, Public, 0 forks, 0 stars, 0 issues, 0 pull requests, 0 projects, 0 wiki, 0 security, 0 insights, 0 settings.
- Code Tab:** Shows a list of files: 01CE0618 - Open ..., OST EX1.docx, OST EX1.pdf, README.md, sample.txt.
- About Section:** OST SUBJECT REPOSITORY, Readme, Activity, 0 stars, 0 watching, 0 forks.
- Releases Section:** No releases published, Create a new release.
- Packages Section:** No packages published, Publish your first package.

**Terminal Window:**

```
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 (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.
 O1CE0618 - 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 O1CE0618 - 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)$
```