

Exercise 02

COMP2156 | DevOps for System Admin

Creating README and Pushing to GitHub

In this exercise, you will create a **README.md** file for your lab, track it with Git, and push your changes to a remote repository on GitHub.

A README.md is a **documentation file** written in **Markdown**. It usually explains:

- What the project/repo is about
 - How to run or set up the project
 - Any important notes for developers
-

Tasks

Perform the following steps **from the command line** inside your **lab1 folder in the comp2156 repository**:

1. Create a README.md file

In your terminal, inside the lab1 folder (within your comp2156 repo), create the file:

```
touch README.md
```

2. Open the file with a text editor (nano or vi)

For example, using nano:

```
nano README.md
```

3. Add the following content to the file

Inside the editor, add this line (replace “Student ID and Name” with your actual info):

```
#### COMP2156 – Developer Operations | YourStudentID and Your Name
```

4. Save and exit the editor

- In **nano**:
 - Press Ctrl + O then Enter to save
 - Press Ctrl + X to exit

5. Add the README file to Git tracking

```
git add README.md
```

6. Commit the change with the required message

```
git commit -m "added header for readme file"
```

7. If you see an error about email or name, configure your Git identity:

```
git config --global user.email "you@example.com"  
git config --global user.name "Your Name"
```

Then run the commit command again.

8. Log in to GitHub and create a new repository named COMP2156

- Go to GitHub → **New repository**
- Repository name: COMP2156
- Leave it **empty** (no README, no .gitignore, no license), since you already have a local repo.

9. Connect your local repo to the remote repo

GitHub will show you commands to connect an existing repository. Generally, it will look like:

```
git remote add origin <your-repo-URL>
```

Example:

```
git remote add origin https://github.com/your-username/COMP2156.git
```

10. Rename the current branch to main

```
git branch -M main
```

11. Push your changes to GitHub

```
git push -u origin main
```

Note: Make sure Git on your computer is set up with your GitHub username and password/token. **GitHub uses personal access tokens instead of passwords for HTTPS pushes.**

What to Submit

Upload a **single PDF file** that contains:

- 1. Screenshot of your terminal** showing all commands used in this exercise:
 - Creating README.md
 - Editing and saving it
 - git add, git commit
 - git remote add, git branch -M main, git push -u origin main
- 2. Screenshot of the commit list from GitHub** for your COMP2156 repository:
 - Show the commit with message added header for readme file.

In the **assignment comment section**, paste:

Your GitHub project repo link (e.g. <https://github.com/your-username/COMP2156>)

Model terminal session (for students to mimic)

Here's an example of what a good terminal log might look like. You can share this as a reference; their exact paths/names may differ.

```
# Go to home (optional)
$ cd ~

# Go into your local comp2156 repo
$ cd comp2156

# Go into the lab1(comp2156) folder (adjust if your structure is different)
$ cd comp2156

# Confirm where you are
$ pwd
/home/student/comp2156/

# Create the README.md file
$ touch README.md

# Check that the file exists
$ ls
README.md other_lab_files...

# Open the file in nano
$ nano README.md
# (Inside nano, type:)
##### COMP2156 - Developer Operations | 123456789 John Doe
# Save and exit

# See file contents (optional)
$ cat README.md
##### COMP2156 - Developer Operations | 123456789 John Doe

# Check git status
```

```

$ git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    README.md

nothing added to commit but untracked files present (use "git add" to track)

# Add the file for tracking
$ git add README.md

# Commit with the required message
$ git commit -m "added header for readme file"
[main 1a2b3c4] added header for readme file
1 file changed, 1 insertion(+)
create mode 100644 lab1/README.md

# (If you see an error about user.name/email, run:)
$ git config --global user.email "you@example.com"
$ git config --global user.name "Your Name"
# Then run git commit again.

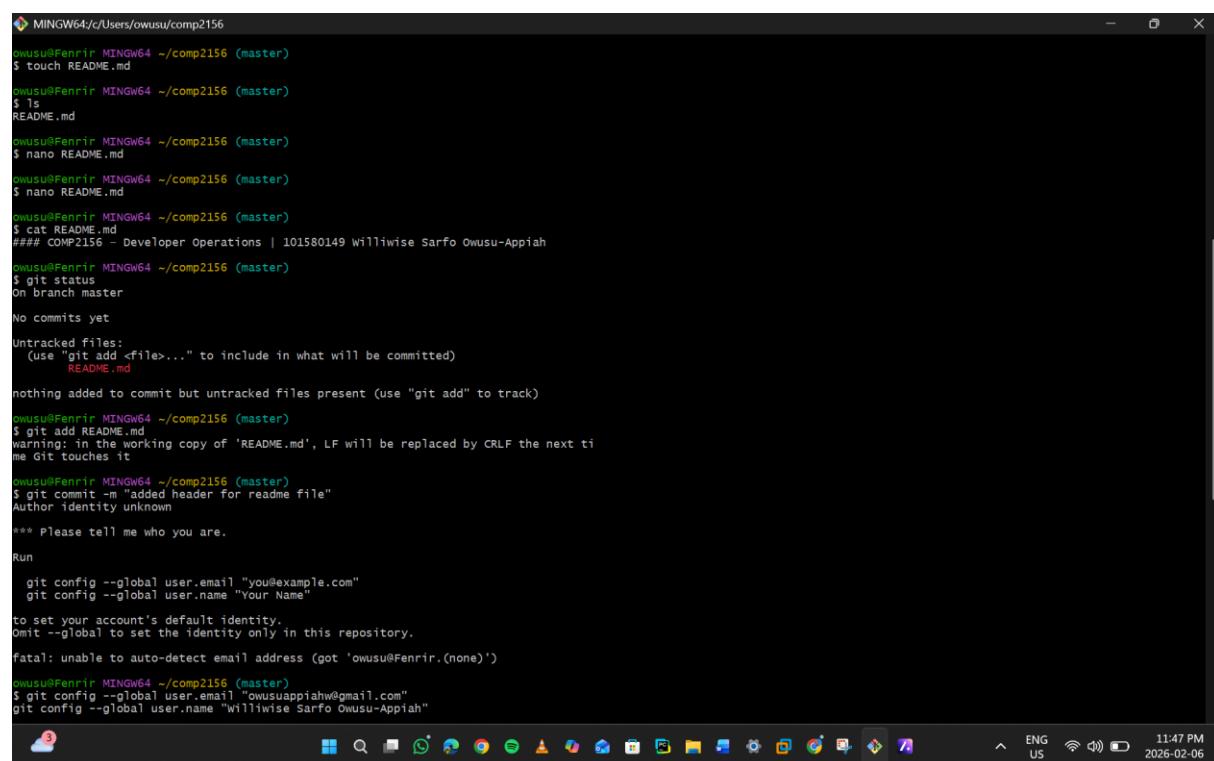
# Add the remote (replace URL with your own GitHub repo URL)
$ git remote add origin https://github.com/your-username/COMP2156.git

# Rename current branch to main
$ git branch -M main

# Push to GitHub
$ git push -u origin main
Username for 'https://github.com': your-username
Password for 'https://github.com': <your personal access token>

```

Students' screenshots should show a similar sequence of commands and outputs.



```

MINGW64:/c/Users/owusu/comp2156
$ touch README.md
$ ls
README.md
$ nano README.md
$ nano README.md
$ cat README.md
#### COMP2156 - Developer Operations | 101580149 Williwise Sarfo Owusu-Appiah
$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    README.md

nothing added to commit but untracked files present (use "git add" to track)

$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
$ git commit -m "added header for readme file"
Author identity unknown
*** Please tell me who you are.
Run
  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"
to set your account's default identity.
Omit --global to set the identity only in this repository.
fatal: unable to auto-detect email address (got 'owusu@Fenrir.(none)')
$ git config --global user.email "owusuappiahw@gmail.com"
$ git config --global user.name "Williwise Sarfo Owusu-Appiah"

```

```
MINGW64/c/Users/owusu/comp2156
git config --global user.email "you@example.com"
git config --global user.name "Your Name"
to set your account's default identity.
Omit --global to set the identity only in this repository.
fatal: unable to auto-detect email address (got 'owusu@Fenrir.(none)')

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ git config --global user.email "owusuappiahw@gmail.com"
git config --global user.name "Williwise Sarfo Owusu-Appiah"

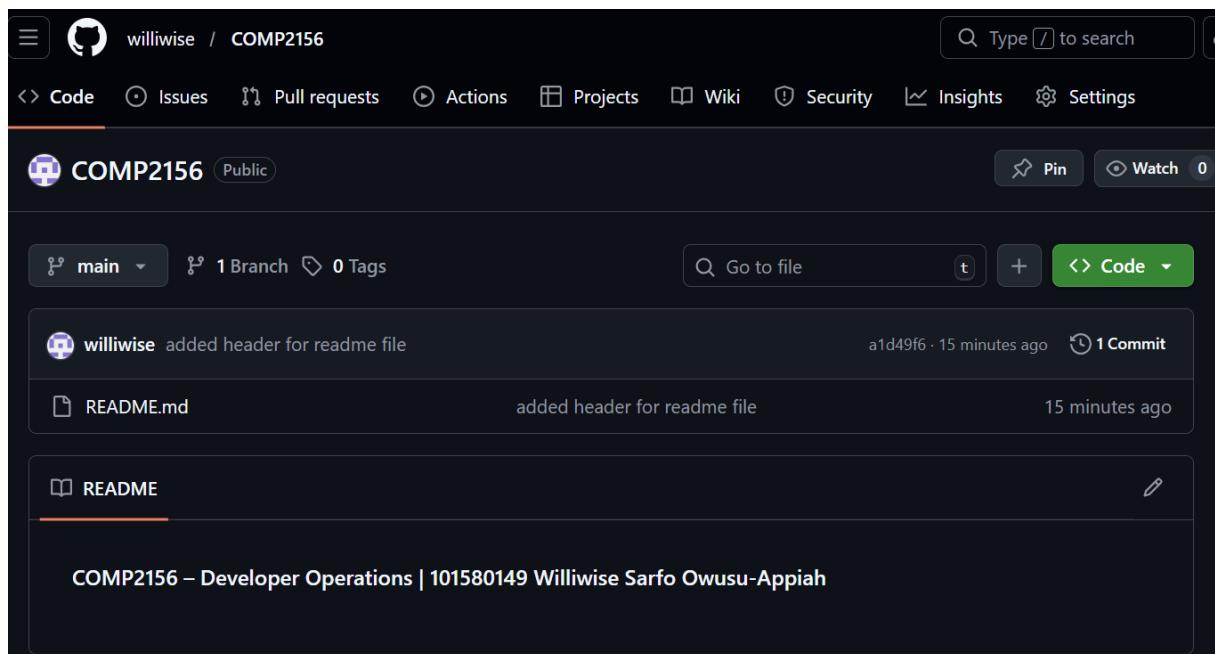
owusu@Fenrir MINGW64 ~/comp2156 (master)
$ git commit -m "added header for readme file"
[master (root-commit) a1d49f6] added header for readme file
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ git remote add origin https://github.com/williwise/COMP2156.git

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ git branch -M main

owusu@Fenrir MINGW64 ~/comp2156 (main)
$ git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 22 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 319 bytes | 106.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/williwise/COMP2156.git
 * [new branch]    main -> main
branch 'main' set up to track 'origin/main'.

owusu@Fenrir MINGW64 ~/comp2156 (main)
$ |
```



williwise / COMP2156

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main 1 Branch 0 Tags

williwise added header for readme file a1d49f6 · 15 minutes ago 1 Commit

README.md added header for readme file 15 minutes ago

README

COMP2156 – Developer Operations | 101580149 Williwise Sarfo Owusu-Appiah