

# Exercise 02

## COMP2156 | DevOps for System Admin

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### 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.**

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## 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>)

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## 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
```

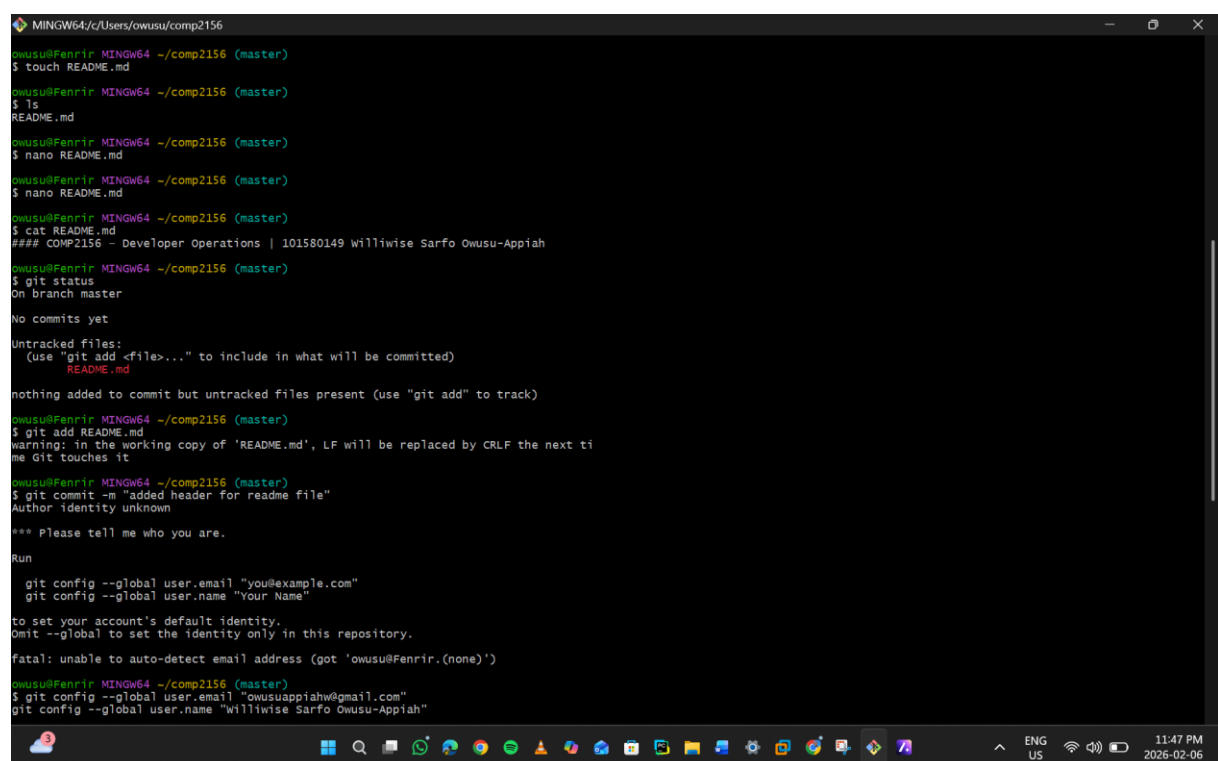
```
# Push to GitHub
```

```
$ 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
owusu@Fenrir MINGW64 ~/comp2156 (master)
$ touch README.md

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ ls
README.md

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ nano README.md

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ nano README.md

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ cat README.md
### COMP2156 - Developer Operations | 101580149 Williwise Sarfo Owusu-Appiah

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ 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)

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ 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)')

owusu@Fenrir MINGW64 ~/comp2156 (master)
$ git config --global user.email "owusuappiah@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 "owusuappiah@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) ald49fe] 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
fatal: User cancelled dialog.
error: unable to read askpass response from 'C:/Program Files/Git/mingw64/bin/git-as
kpass.exe'
Username for 'https://github.com':
remote: No anonymous write access.
fatal: Authentication failed for 'https://github.com/williwise/COMP2156.git/'

owusu@Fenrir MINGW64 ~/comp2156 (main)
$

owusu@Fenrir MINGW64 ~/comp2156 (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

Type / to search

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

COMP2156

Public

Pin

Watch 0

main

1 Branch

0 Tags

Go to file

+

<> Code

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