

LAB 3

GIT AND GITHUB



Full name: Lâm Thế Vinh

Student ID: B2206022

- Note: screenshots need to be clear and good-looking; submissions must be in PDF format.

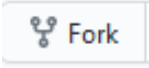
1. Setup and making commits

- Install and setup git on your computer (remember to set your name/email)

```
$sudo apt update ; sudo apt install git -y
$git config --global user.name "Firstname Lastname"
$git config --global user.email "example@ctu.edu.vn"
```

```
B2206022_Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
b2206022@b2206022-virtualbox: ~
File Actions Edit View Help
b2206022@b2206022-virtualbox: ~ x
b2206022@b2206022-virtualbox:~$ git config --global user.name Vinh_Lam_the
b2206022@b2206022-virtualbox:~$ git config --global user.email vinhb2206022@student.ctu.edu.vn
b2206022@b2206022-virtualbox:~$
```

- Create an account (or login) to GitHub at <https://github.com>

- Fork () this repository <https://github.com/TuanThai/git-exercises.git> to your Github account.

- Clone the forked repository to your computer

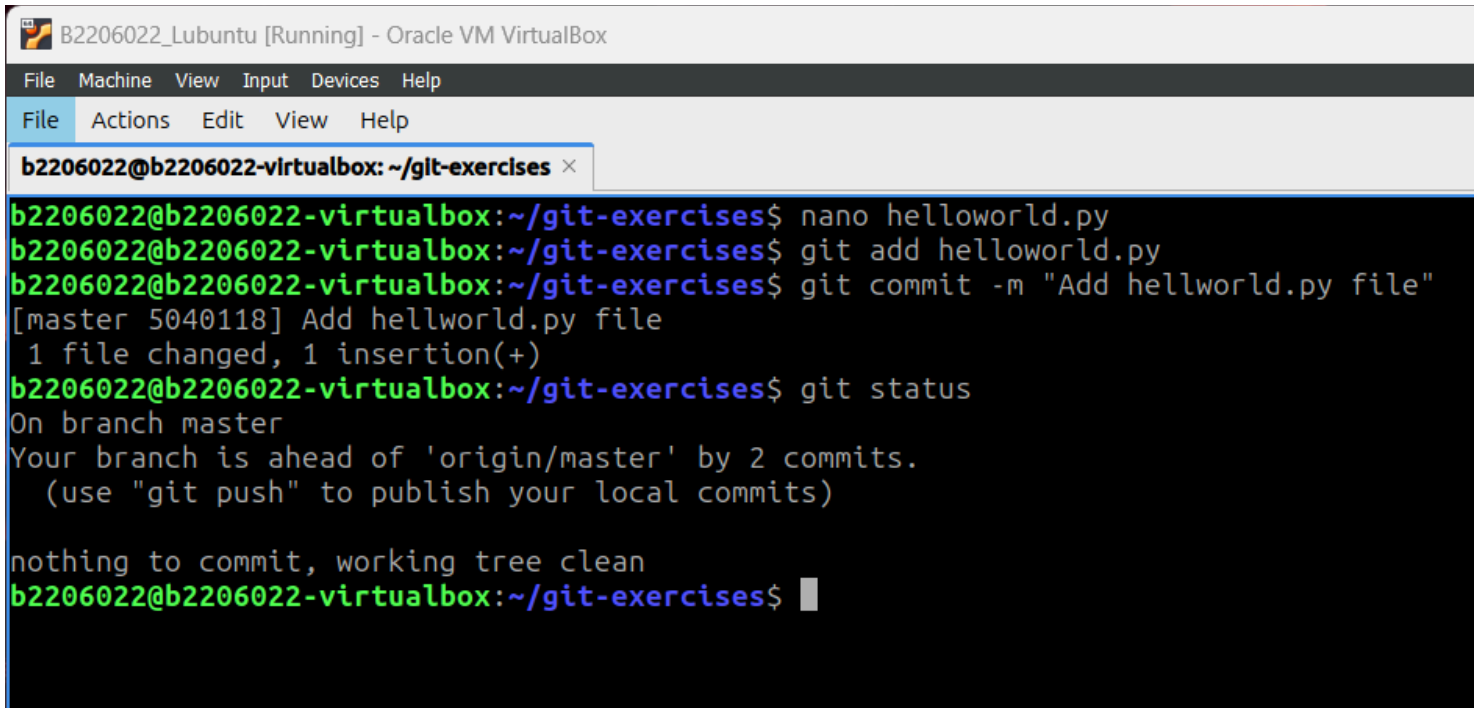
```
$git clone <url of your forked repository>
```

- Create and add a new file helloworld.py

```
$cd ./git-exercises
$nano helloworld.py
#!/usr/bin/python3
print("Hello world")
$git add helloworld.py
$git commit -m "Add helloworld.py file"
```

- Examine the state of your repo

```
$git status
```



The screenshot shows a terminal window titled "B2206022_Lubuntu [Running] - Oracle VM VirtualBox". The terminal has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu bar, there is a tab labeled "b2206022@b2206022-virtualbox: ~/git-exercises". The terminal content shows the following commands and output:

```
b2206022@b2206022-virtualbox:~/git-exercises$ nano helloworld.py
b2206022@b2206022-virtualbox:~/git-exercises$ git add helloworld.py
b2206022@b2206022-virtualbox:~/git-exercises$ git commit -m "Add helloworld.py file"
[master 5040118] Add helloworld.py file
 1 file changed, 1 insertion(+)
b2206022@b2206022-virtualbox:~/git-exercises$ git status
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
(use "git push" to publish your local commits)

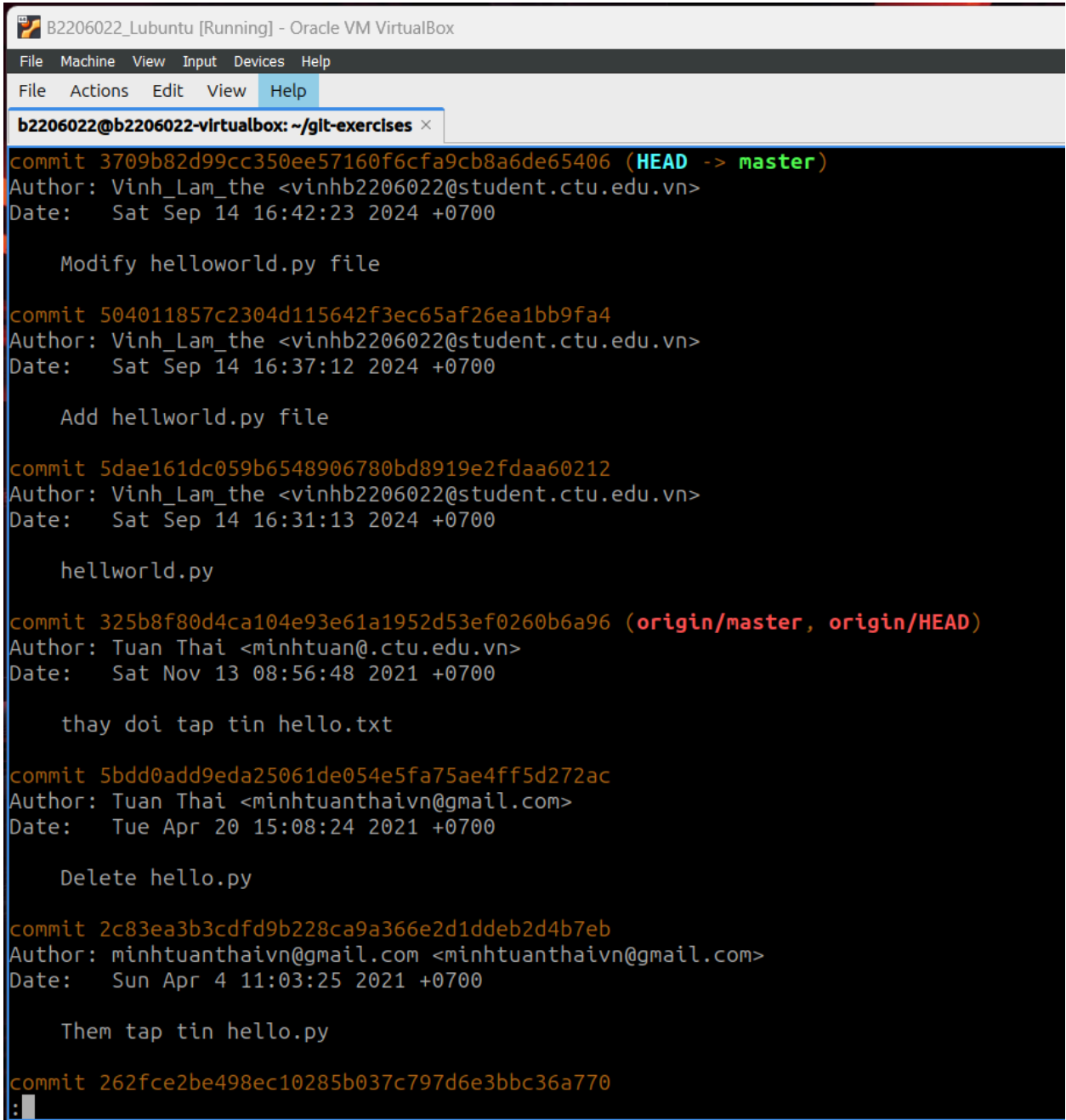
nothing to commit, working tree clean
b2206022@b2206022-virtualbox:~/git-exercises$
```

- Edit and save your new file, then add it to the staging area. Finally make a new commit with the edited file. At all stages use git status to see how your repository changes

```
$nano helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello Git")
$git add helloworld.py
$git commit -m "Modify helloworld.py file"
```

- View the log

```
$git log
```



```
B2206022_Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
File Actions Edit View Help
b2206022@b2206022-virtualbox: ~/git-exercises x
commit 3709b82d99cc350ee57160f6cfa9cb8a6de65406 (HEAD -> master)
Author: Vinh_Lam_the <vinhb2206022@student.ctu.edu.vn>
Date: Sat Sep 14 16:42:23 2024 +0700

    Modify helloworld.py file

commit 504011857c2304d115642f3ec65af26ea1bb9fa4
Author: Vinh_Lam_the <vinhb2206022@student.ctu.edu.vn>
Date: Sat Sep 14 16:37:12 2024 +0700

    Add helloworld.py file

commit 5dae161dc059b6548906780bd8919e2fdaa60212
Author: Vinh_Lam_the <vinhb2206022@student.ctu.edu.vn>
Date: Sat Sep 14 16:31:13 2024 +0700

    hellworld.py

commit 325b8f80d4ca104e93e61a1952d53ef0260b6a96 (origin/master, origin/HEAD)
Author: Tuan Thai <minhtuan@ctu.edu.vn>
Date: Sat Nov 13 08:56:48 2021 +0700

    thay doi tap tin hello.txt

commit 5bdd0add9eda25061de054e5fa75ae4ff5d272ac
Author: Tuan Thai <minhtuanthaivn@gmail.com>
Date: Tue Apr 20 15:08:24 2021 +0700

    Delete hello.py

commit 2c83ea3b3cdfd9b228ca9a366e2d1ddeb2d4b7eb
Author: minhtuanthaivn@gmail.com <minhtuanthaivn@gmail.com>
Date: Sun Apr 4 11:03:25 2021 +0700

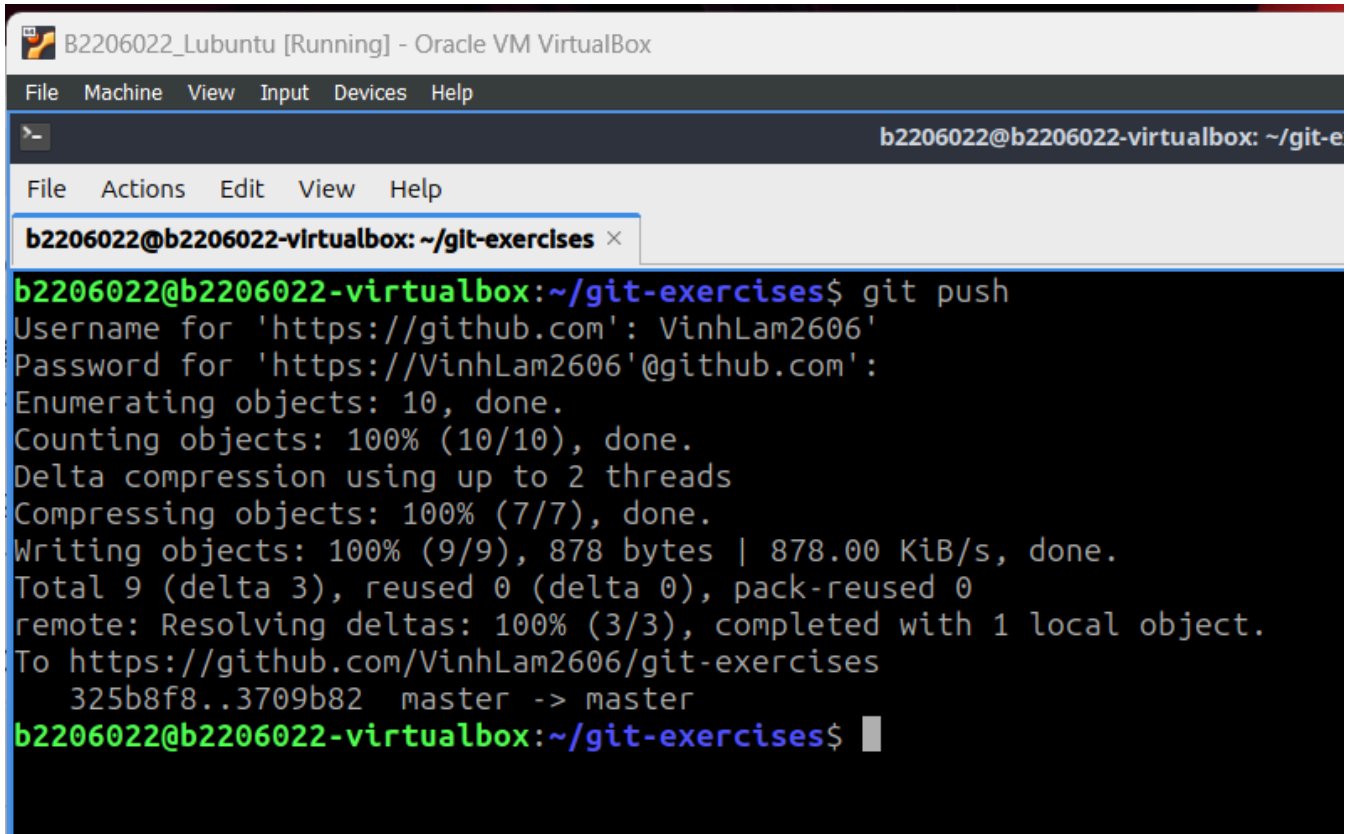
    Them tap tin hello.py

commit 262fce2be498ec10285b037c797d6e3bbc36a770
:
```

- Push the commits to the server

```
$git push
```

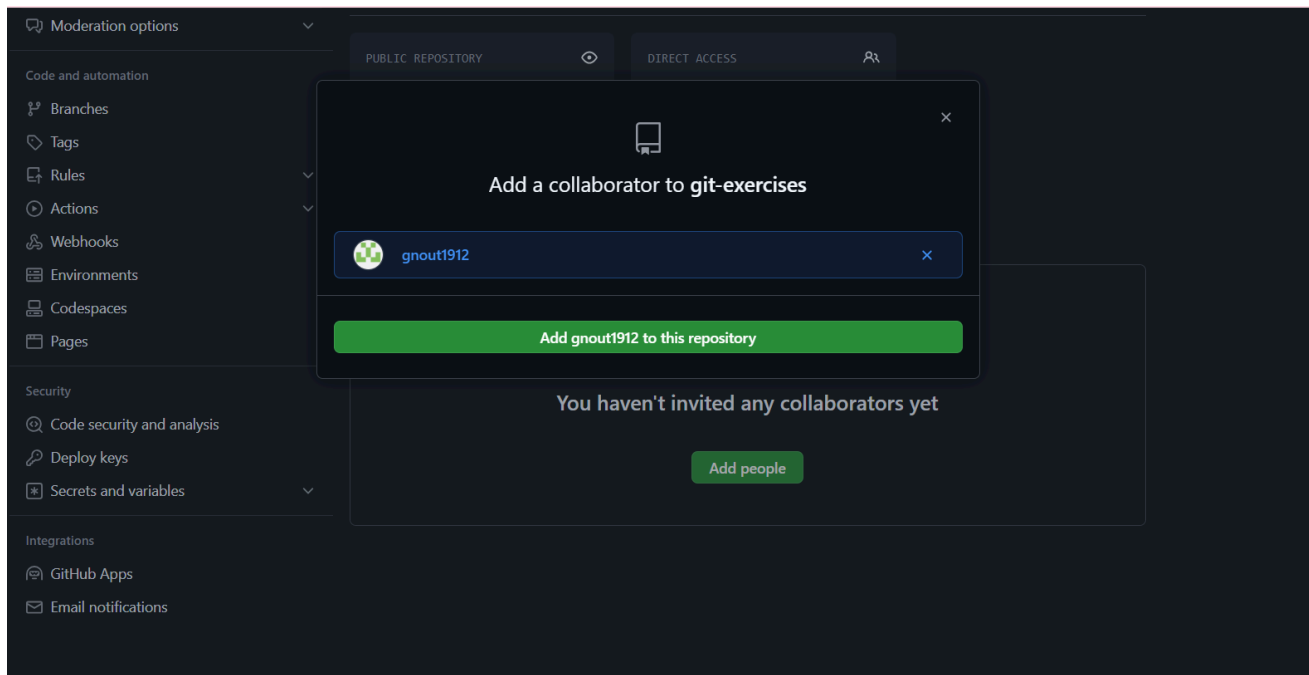
(Note: You need to provide a personal access token as a password, please follow [this article](#) to create one)

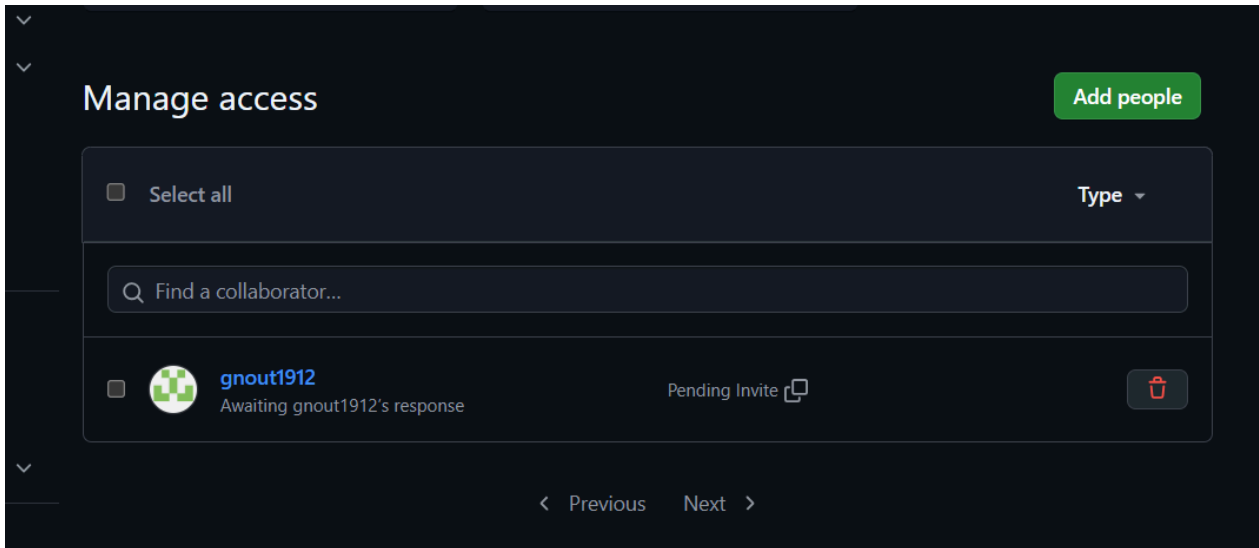


The screenshot shows a terminal window titled "b2206022_Lubuntu [Running] - Oracle VM VirtualBox". The terminal prompt is "b2206022@b2206022-virtualbox: ~/git-exercises". The user has executed the command "git push". The output shows the process of pushing to the repository "https://github.com/VinhLam2606/git-exercises". The push is successful, with the message "remote: Resolving deltas: 100% (3/3), completed with 1 local object." and the commit hash "325b8f8..3709b82 master -> master".

```
b2206022@b2206022-virtualbox:~/git-exercises$ git push
Username for 'https://github.com': VinhLam2606
Password for 'https://VinhLam2606@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 2 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (9/9), 878 bytes | 878.00 KiB/s, done.
Total 9 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To https://github.com/VinhLam2606/git-exercises
    325b8f8..3709b82  master -> master
b2206022@b2206022-virtualbox:~/git-exercises$
```

- Invite someone to be a collaborator of Github repository





(take screenshots to show that you finish this exercise)

2. Branching and Merging

- Create a new branch "test_functions"

```
$git checkout -b test_functions
```

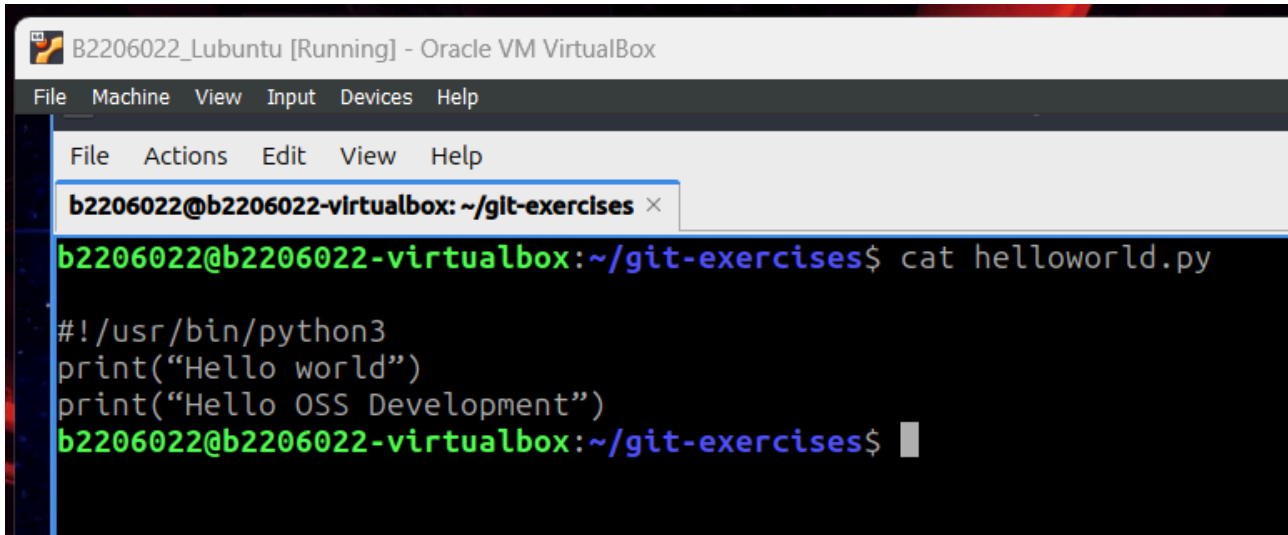
```
B2206022_Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
b2206022@b2206022-virtualbox: ~/git-exercise
File Actions Edit View Help
b2206022@b2206022-virtualbox: ~/git-exercises x
b2206022@b2206022-virtualbox:~$ cd ./git-exercises
b2206022@b2206022-virtualbox:~/git-exercises$ git checkout -b test_functions
Switched to a new branch 'test_functions'
b2206022@b2206022-virtualbox:~/git-exercises$
```

- Edit helloworld.py file and commit the result

```
$nano helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
$git add helloworld.py
$git commit -m "Modify helloworld.py file"
```

- Display helloworld.py content

```
$cat helloworld.py
```

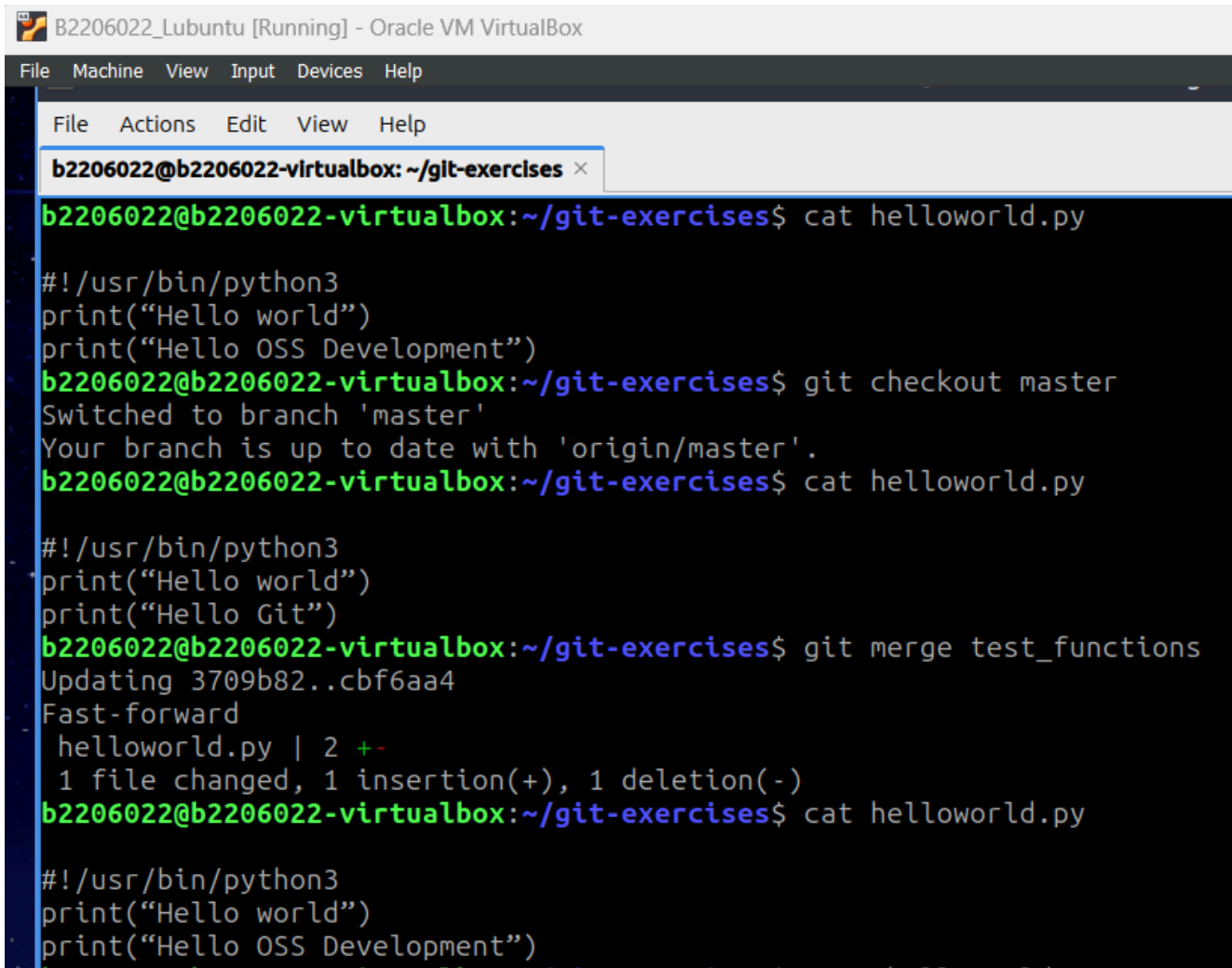


The screenshot shows a terminal window titled "B2206022_Lubuntu [Running] - Oracle VM VirtualBox". The terminal has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu bar is a sub-menu bar with "File", "Actions", "Edit", "View", and "Help". The terminal prompt is "b2206022@b2206022-virtualbox: ~/git-exercises". The user has entered the command "cat helloworld.py". The output of the command is a Python script:

```
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
```

The terminal prompt is now "b2206022@b2206022-virtualbox: ~/git-exercises\$".

- Swap back to the "master" branch
\$git checkout master
- Display helloworld.py content
\$cat helloworld.py
- Merge "test_functions" branch to "master"
\$git merge test_functions
- Display helloworld.py content. Are there any conflicts?
\$cat helloworld.py
- > No, there are not any conflicts



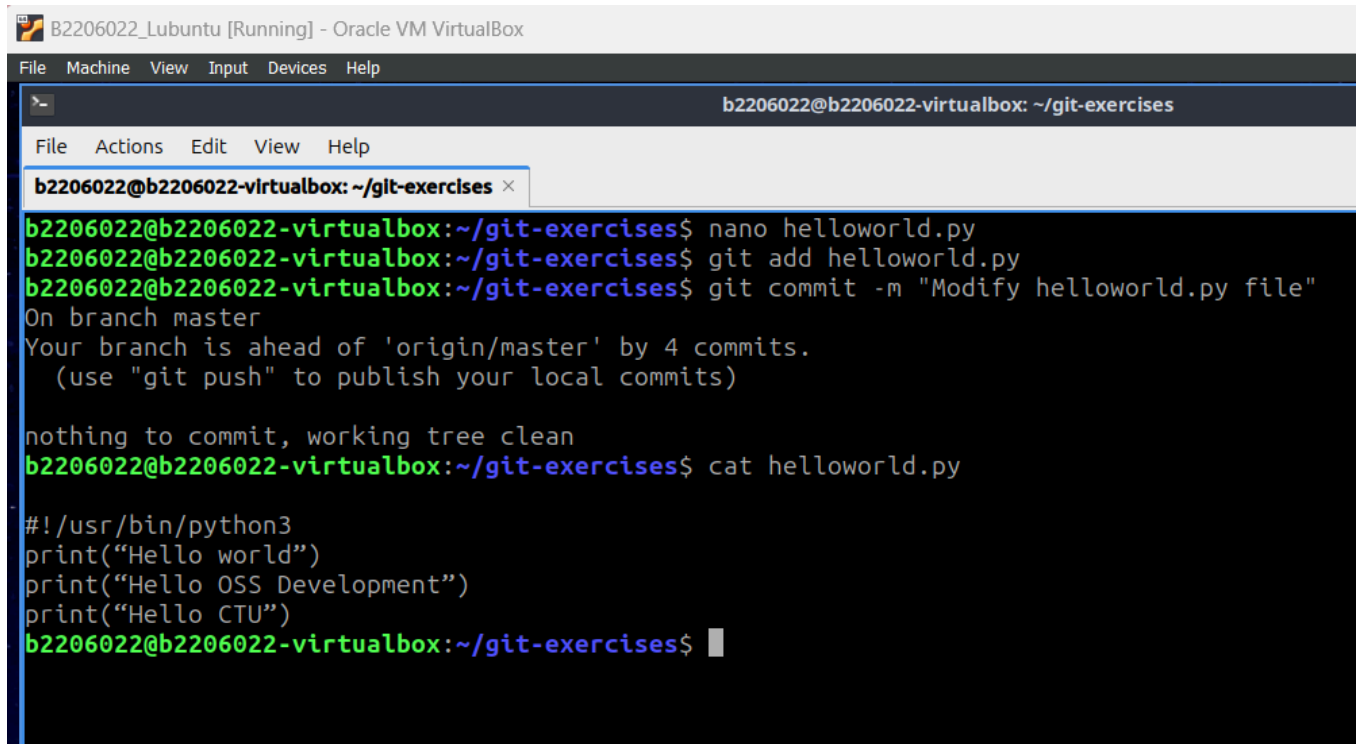
```
B2206022_Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

File Actions Edit View Help
b2206022@b2206022-virtualbox: ~/git-exercises x

b2206022@b2206022-virtualbox:~/git-exercises$ cat helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
b2206022@b2206022-virtualbox:~/git-exercises$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
b2206022@b2206022-virtualbox:~/git-exercises$ cat helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello Git")
b2206022@b2206022-virtualbox:~/git-exercises$ git merge test_functions
Updating 3709b82..cbf6aa4
Fast-forward
 helloworld.py | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
b2206022@b2206022-virtualbox:~/git-exercises$ cat helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
```

- Edit helloworld.py file and commit the result

```
$nano helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
print("Hello CTU")
$git add helloworld.py
$git commit -m "Modify helloworld.py file"
```



The screenshot shows a terminal window titled "B2206022_Lubuntu [Running] - Oracle VM VirtualBox". The terminal prompt is "b2206022@b2206022-virtualbox: ~/git-exercises". The user has executed the following commands:

```
b2206022@b2206022-virtualbox:~/git-exercises$ nano helloworld.py
b2206022@b2206022-virtualbox:~/git-exercises$ git add helloworld.py
b2206022@b2206022-virtualbox:~/git-exercises$ git commit -m "Modify helloworld.py file"
On branch master
Your branch is ahead of 'origin/master' by 4 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
b2206022@b2206022-virtualbox:~/git-exercises$ cat helloworld.py
```

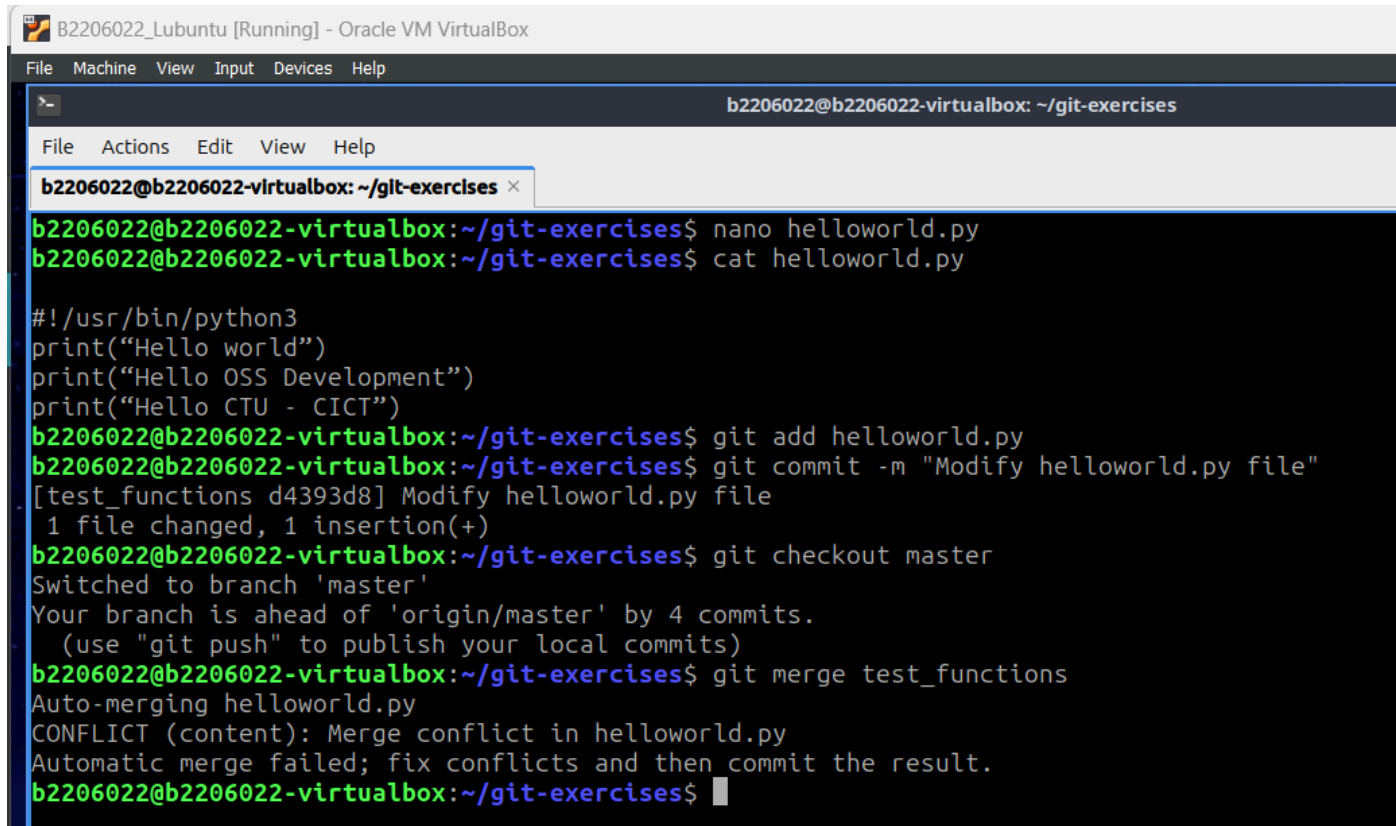
The output of the `cat` command shows the content of `helloworld.py`:

```
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
print("Hello CTU")
```

- Checkout to `test_functions`, edit `helloworld.py` file and commit the result

```
$git checkout
$nano helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
print("Hello CTU - CICT")
$git add helloworld.py
$git commit -m "Modify helloworld.py file"
```
- Swap back to the "master" branch, merge "test_functions" branch to "master"

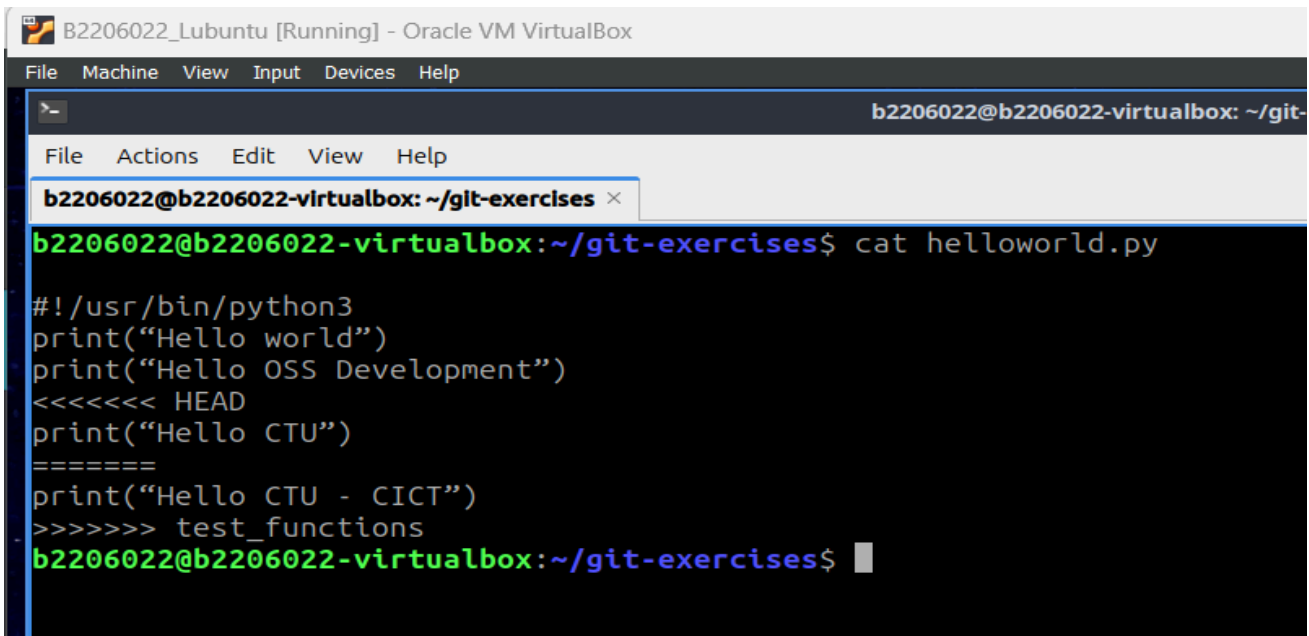
```
$git checkout master
$git merge test_functions
```

```
B2206022_Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
b2206022@b2206022-virtualbox: ~/git-exercises
File Actions Edit View Help
b2206022@b2206022-virtualbox: ~/git-exercises x
b2206022@b2206022-virtualbox:~/git-exercises$ nano helloworld.py
b2206022@b2206022-virtualbox:~/git-exercises$ cat helloworld.py

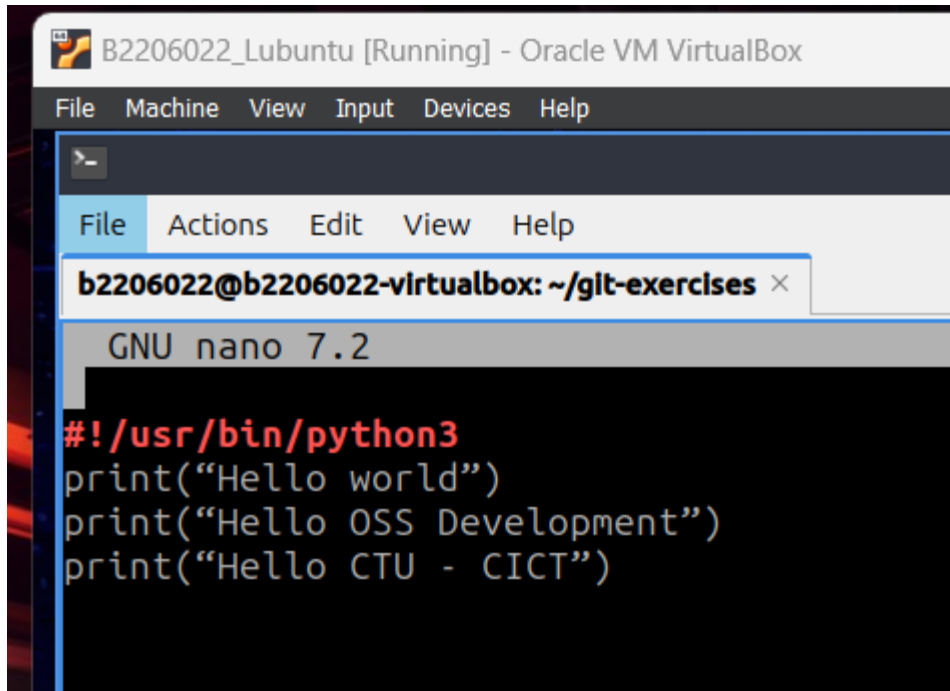
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
print("Hello CTU - CICT")
b2206022@b2206022-virtualbox:~/git-exercises$ git add helloworld.py
b2206022@b2206022-virtualbox:~/git-exercises$ git commit -m "Modify helloworld.py file"
[test_functions d4393d8] Modify helloworld.py file
1 file changed, 1 insertion(+)
b2206022@b2206022-virtualbox:~/git-exercises$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 4 commits.
(use "git push" to publish your local commits)
b2206022@b2206022-virtualbox:~/git-exercises$ git merge test_functions
Auto-merging helloworld.py
CONFLICT (content): Merge conflict in helloworld.py
Automatic merge failed; fix conflicts and then commit the result.
b2206022@b2206022-virtualbox:~/git-exercises$
```

- Are there any conflicts? If YES, resolve the conflict (i.e. edit the conflict markers to match how you want the file to look - like) and commit the result. Use git log to see the resulting commits on the master branch.



```
B2206022_Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
b2206022@b2206022-virtualbox: ~/git-
File Actions Edit View Help
b2206022@b2206022-virtualbox: ~/git-exercises x
b2206022@b2206022-virtualbox:~/git-exercises$ cat helloworld.py

#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
<<<<<<< HEAD
print("Hello CTU")
=====
print("Hello CTU - CICT")
>>>>>>> test_functions
b2206022@b2206022-virtualbox:~/git-exercises$
```

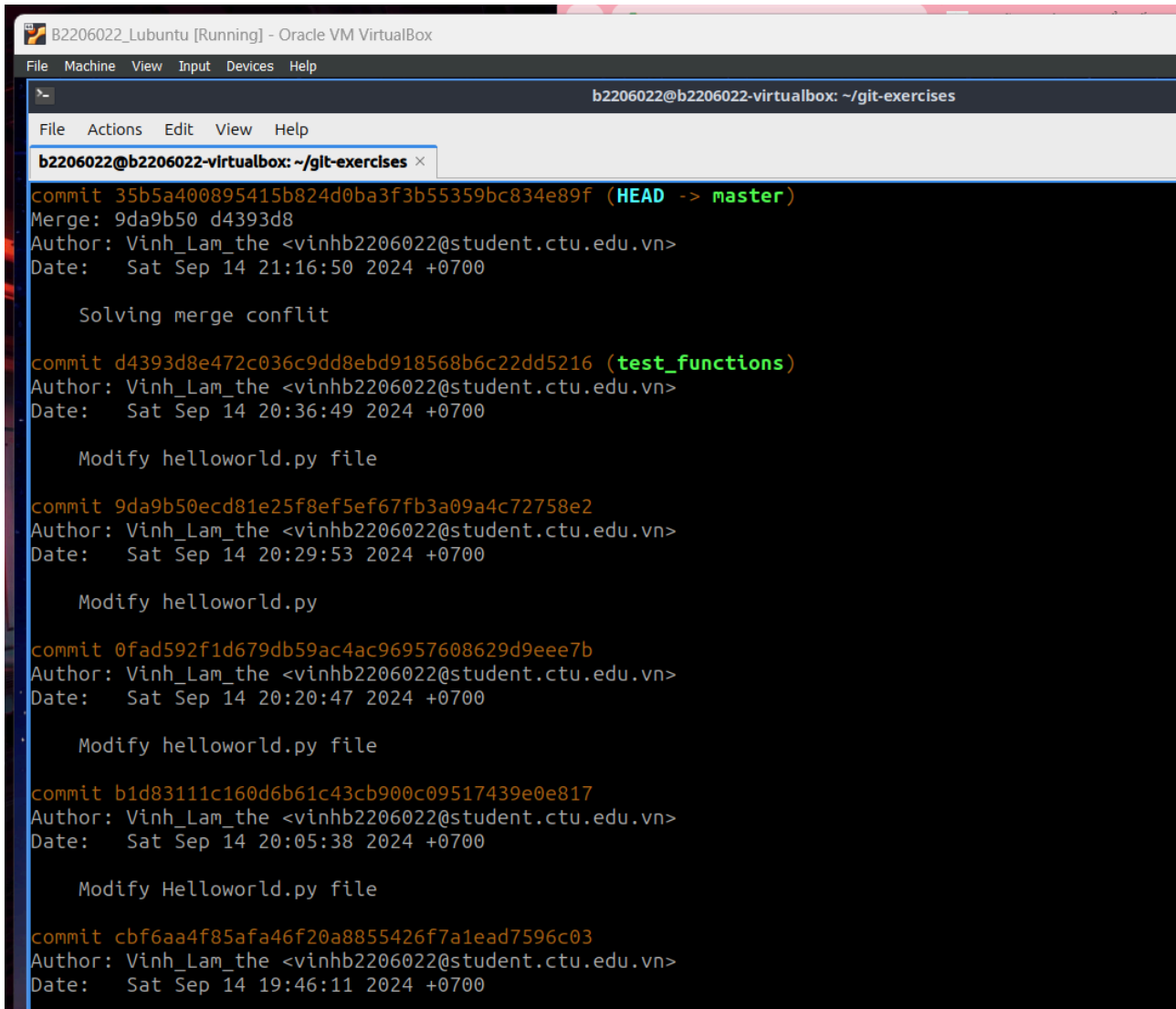


The screenshot shows a VirtualBox window titled "B2206022_Lubuntu [Running] - Oracle VM VirtualBox". Inside the window, there is a terminal window titled "b2206022@b2206022-virtualbox: ~/git-exercises". The terminal is running the GNU nano 7.2 text editor. The editor is editing a file with the following content:

```
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
print("Hello CTU - CICT")
```

- View the log to see the resulting commits on the master branch.

```
$git log
```



```
B2206022_Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
b2206022@b2206022-virtualbox: ~/git-exercises
File Actions Edit View Help
b2206022@b2206022-virtualbox: ~/git-exercises x
commit 35b5a400895415b824d0ba3f3b55359bc834e89f (HEAD -> master)
Merge: 9da9b50 d4393d8
Author: Vinh_Lam_the <vinhb2206022@student.ctu.edu.vn>
Date: Sat Sep 14 21:16:50 2024 +0700

    Solving merge conflict

commit d4393d8e472c036c9dd8ebd918568b6c22dd5216 (test_functions)
Author: Vinh_Lam_the <vinhb2206022@student.ctu.edu.vn>
Date: Sat Sep 14 20:36:49 2024 +0700

    Modify helloworld.py file

commit 9da9b50ecd81e25f8ef5ef67fb3a09a4c72758e2
Author: Vinh_Lam_the <vinhb2206022@student.ctu.edu.vn>
Date: Sat Sep 14 20:29:53 2024 +0700

    Modify helloworld.py

commit 0fad592f1d679db59ac4ac96957608629d9eee7b
Author: Vinh_Lam_the <vinhb2206022@student.ctu.edu.vn>
Date: Sat Sep 14 20:20:47 2024 +0700

    Modify helloworld.py file

commit b1d83111c160d6b61c43cb900c09517439e0e817
Author: Vinh_Lam_the <vinhb2206022@student.ctu.edu.vn>
Date: Sat Sep 14 20:05:38 2024 +0700

    Modify Helloworld.py file

commit cbf6aa4f85afa46f20a8855426f7a1ead7596c03
Author: Vinh_Lam_the <vinhb2206022@student.ctu.edu.vn>
Date: Sat Sep 14 19:46:11 2024 +0700
```

(take screenshots to show that you finish this exercise)

3. Working with GitHub in VS Code

- Install VS Code and its GitHub Pull Requests-Issues extension to your computer.

82206022_Lubuntu [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Extension: GitHub Pull Requests - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXTENSIONS: MARKETPLACE

github pull requests

GitHub Pull Request and Issue Provider for GitHub

GitHub Pull Request and Issue Provider for GitHub

pull-requester

GitHub CLI UI

VSCode Essential

Superlog

VSMarketplace

Just Print It

Kaizen

Chart.js

GitHub Pull Requests

GitHub

24,343,205

5 (167)

Disable Uninstall Switch to Pre-Release Version Auto Update

DETAILS FEATURES CHANGELOG DEPENDENCIES

Azure Pipelines succeeded

Review and manage your GitHub pull requests and issues directly in VS Code

This extension allows you to review and manage GitHub pull requests and issues in Visual Studio Code. The support includes:

- Authenticating and connecting VS Code to GitHub and GitHub Enterprise.
- Listing and browsing PRs from within VS Code.
- Reviewing PRs from within VS Code with in-editor commenting.
- Validating PRs from within VS Code with easy checkouts.
- Terminal integration that enables UI and CLIs to co-exist.
- Listing and browsing issues from within VS Code.
- Hover cards for "@" mentioned users and for issues.
- Completion suggestions for users and issues.
- A "Start working on issue" action which can create a branch for you.
- Code actions to create issues from "todo" comments.

Categories

Other

Resources

Marketplace

Issues

Repository

License

GitHub

More Info

Published 2018-09-08, 06:09:31

Last released 2024-09-12, 11:25:24

Identifier github.vscod-pull-request-github

lxqt-config-monitor

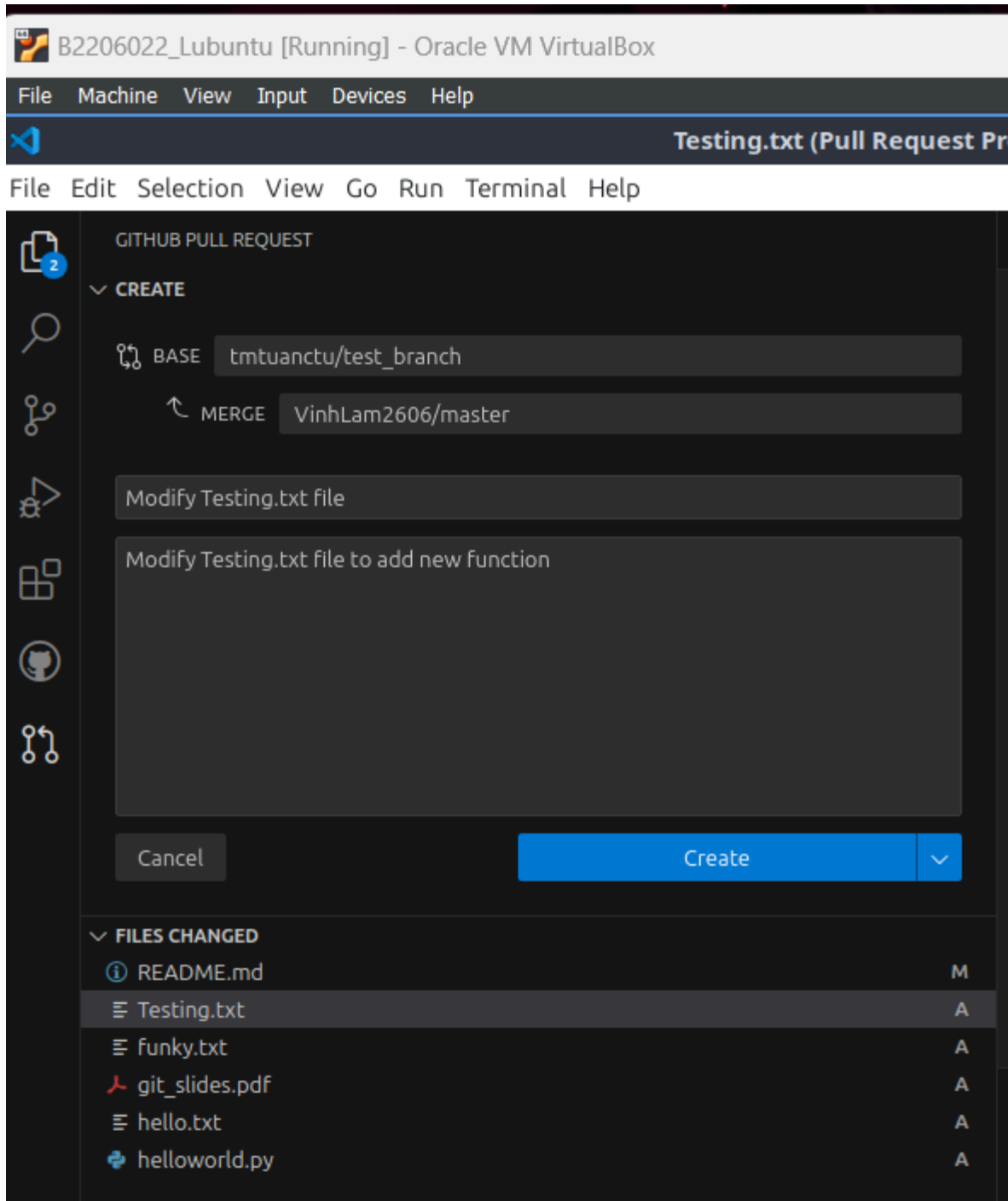
Default monitor settings have been applied. Use lxqt-config-monitor for adjusting your monitor settings.

1 2 3 4

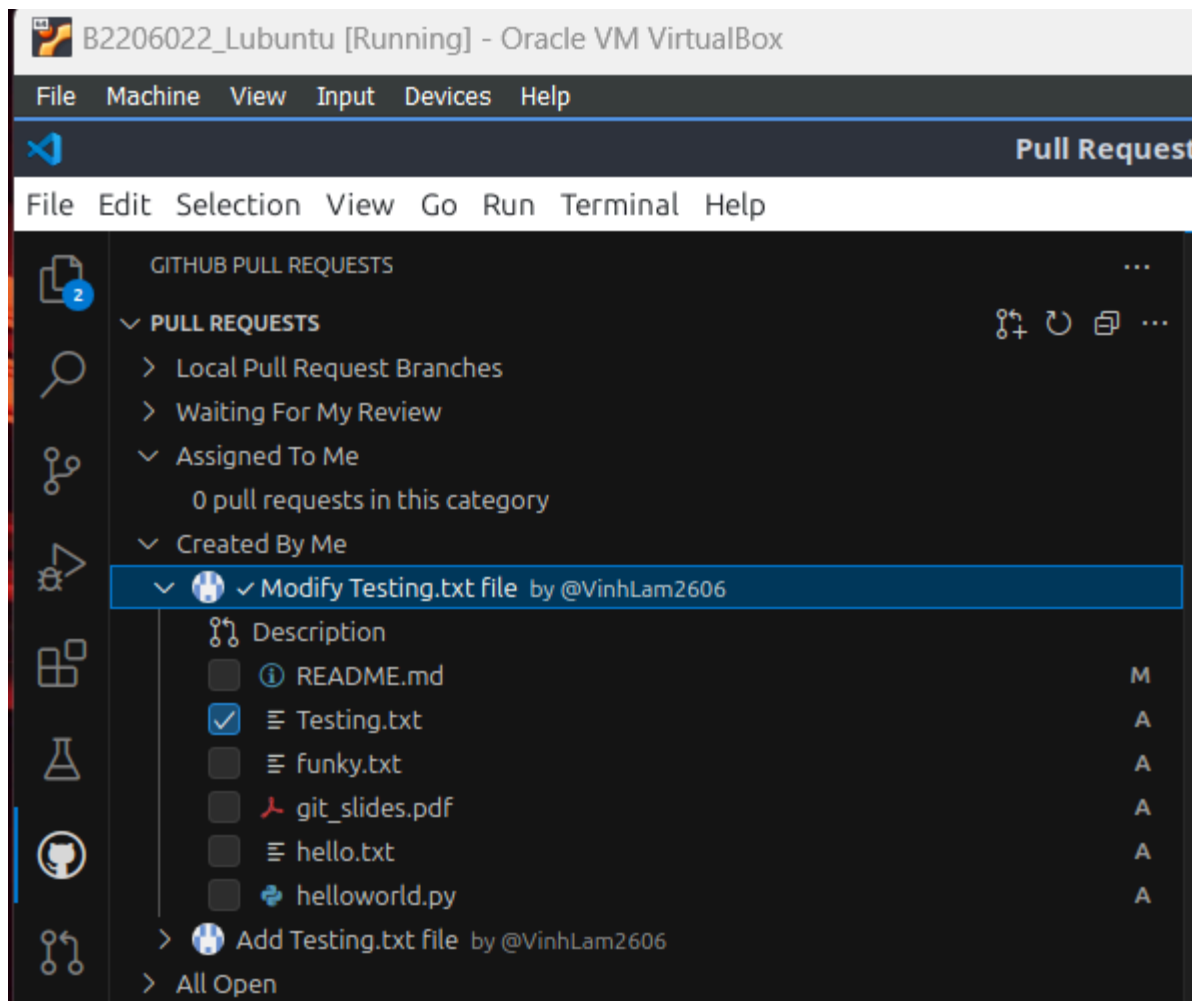
Extension: GitHub Pull...

10:49

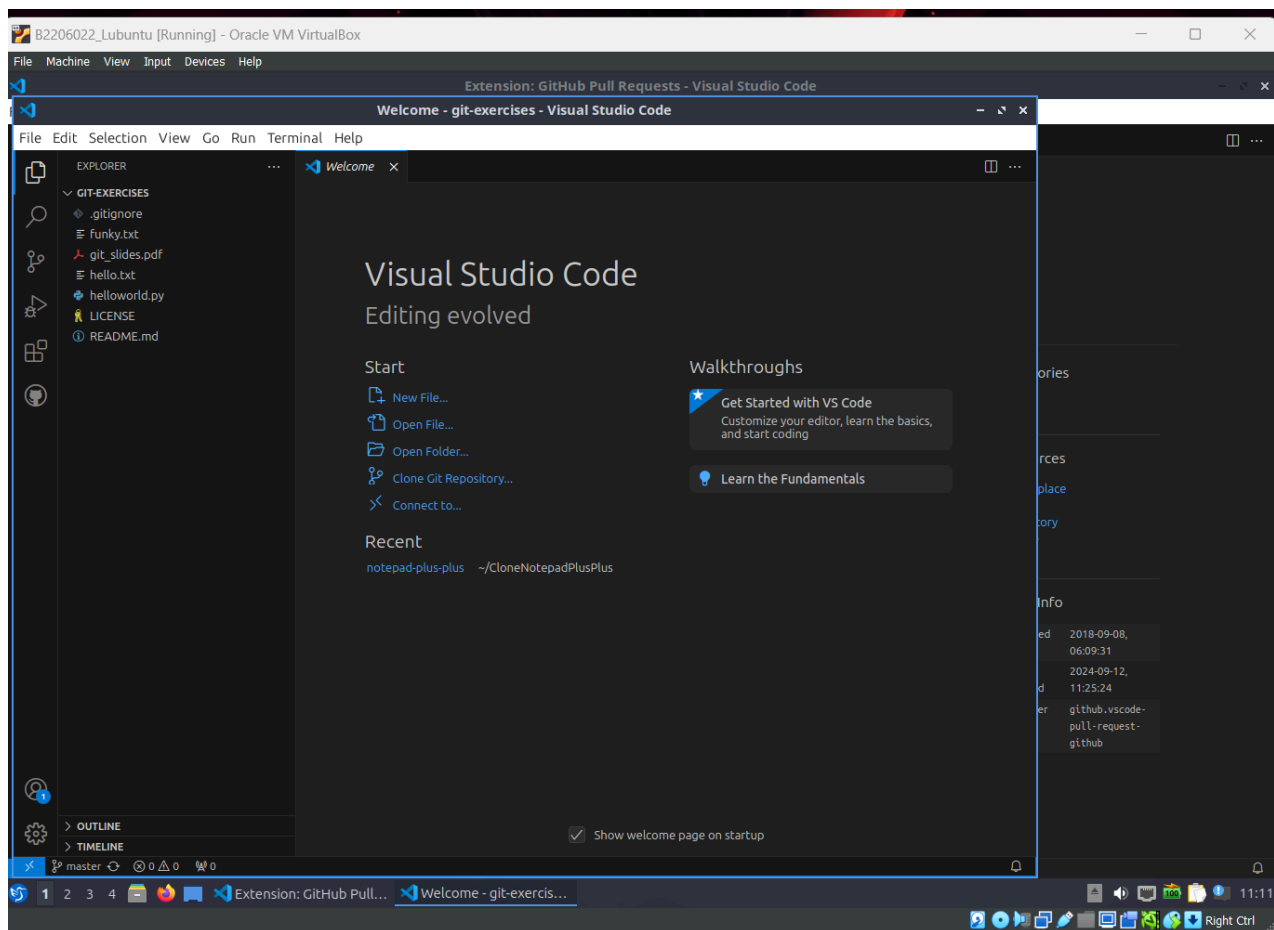
- Sign in GitHub using GitHub Pull Requests and Issues extension.
 - + Create a pull request



- The Pull-request has been accepted

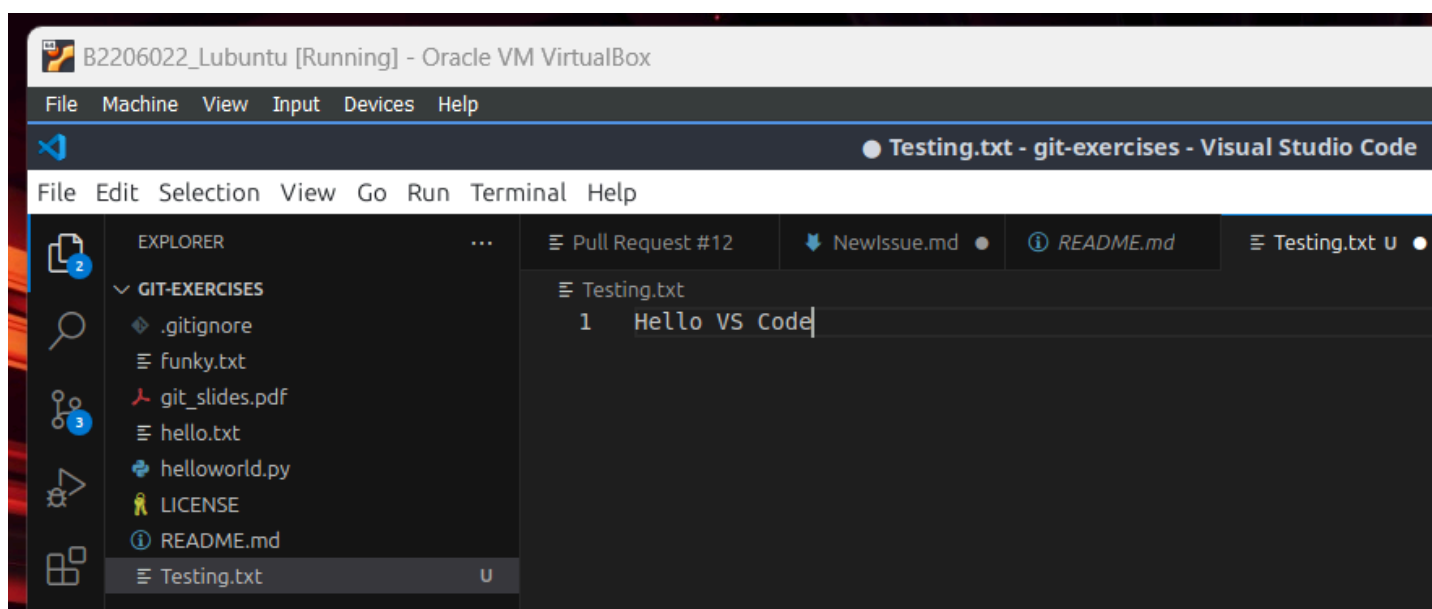


- Clone a remote repository to your computer.

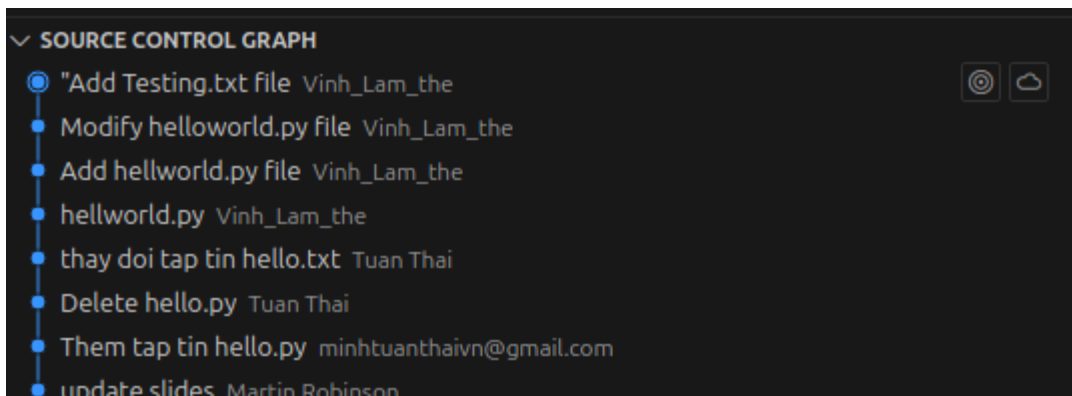
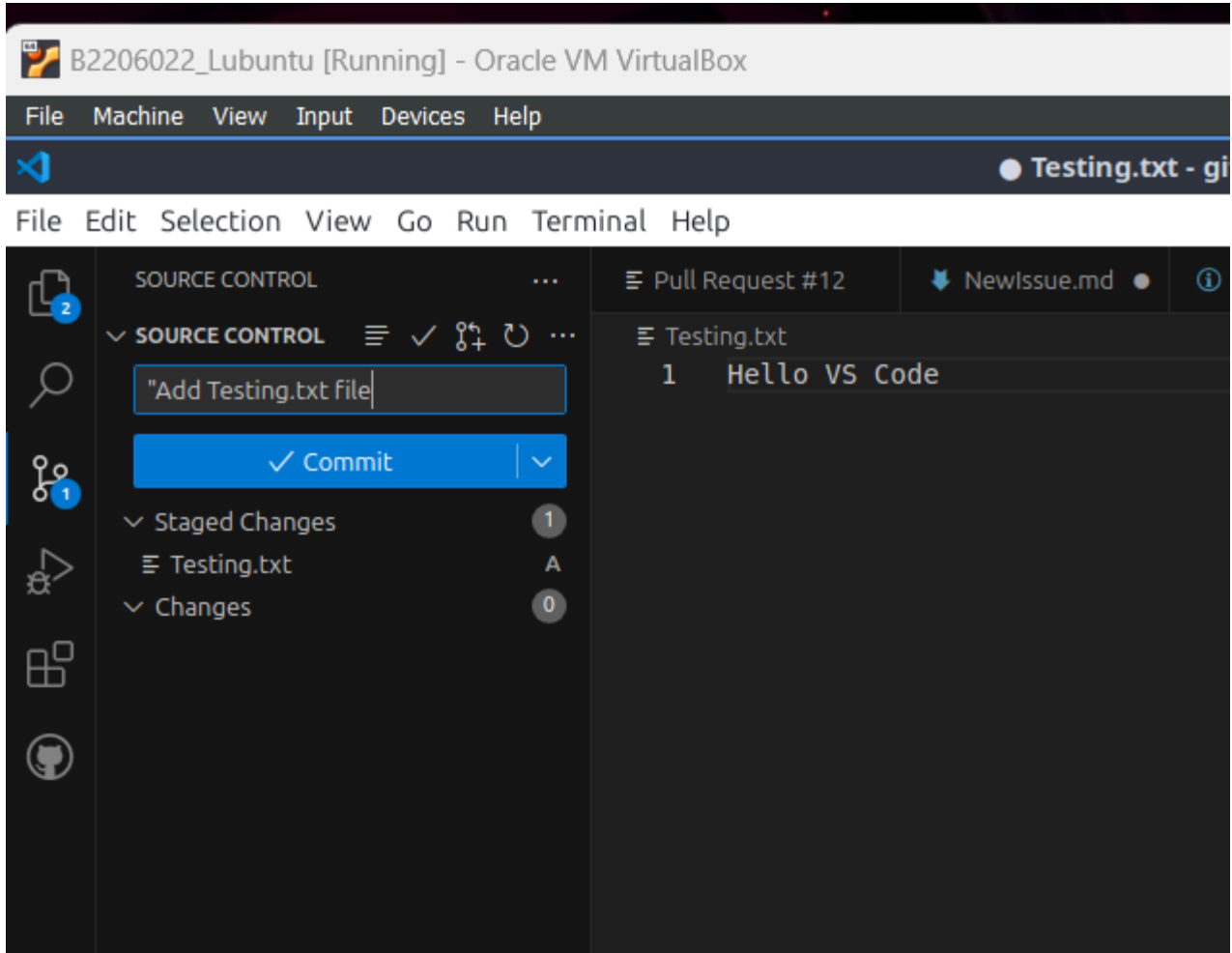


- Create and add a new file to the local repository, then commit everything you have done so far.

+ Create File

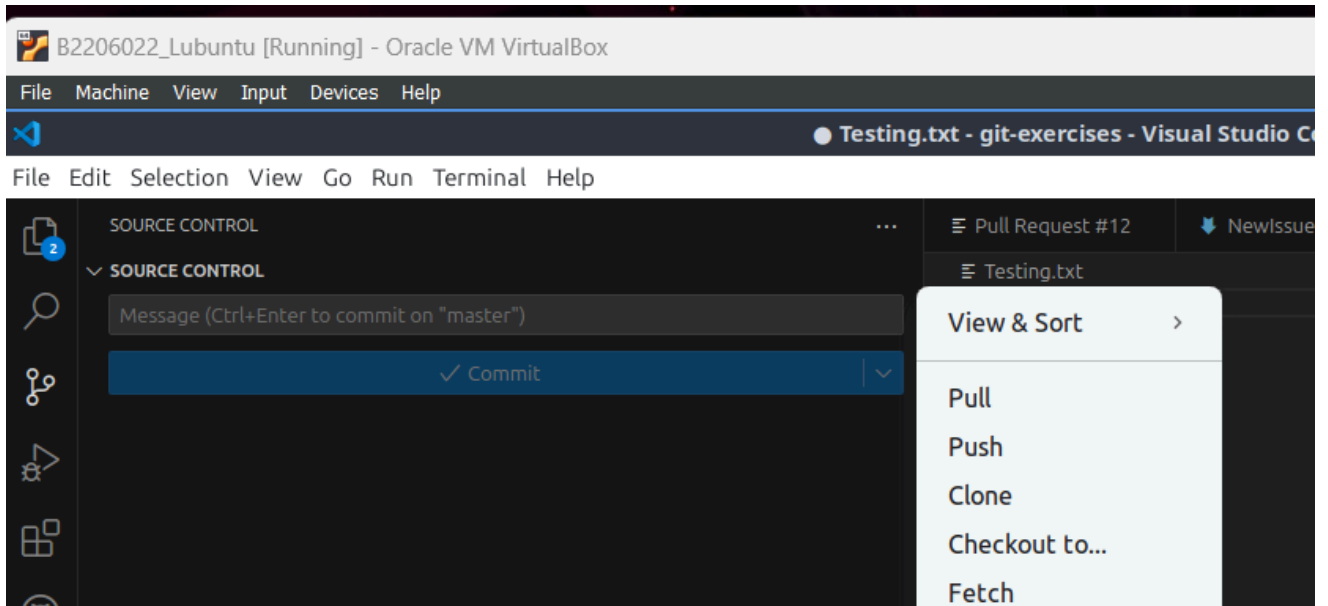


+ Add & commit the change



- Push the commits to the remote repository.

+ Push the commit



+ After Push The Testing.txt has appeared on the remote repository

Vinh_Lam_the	"Add Testing.txt file"	85234e5 · 5 minutes ago	22 Commits
.gitignore	Initial commit	8 years ago	
LICENSE	Initial commit	8 years ago	
README.md	close the bracket	7 years ago	
Testing.txt	"Add Testing.txt file"	5 minutes ago	
funky.txt	edit funky file	8 years ago	
git_slides.pdf	update slides	5 years ago	
hello.txt	thay doi tap tin hello.txt	3 years ago	
helloworld.py	Modify helloworld.py file	19 hours ago	

(take screenshots to show that you finish this exercise)

---END---