



## LAB 3

### GIT AND GITHUB

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- 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
```

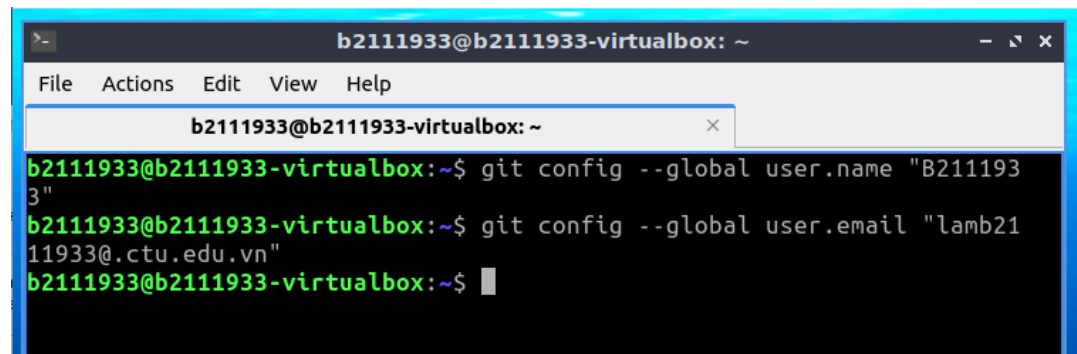
```
b2111933@b2111933-virtualbox: ~  
File Actions Edit View Help  
b2111933@b2111933-virtualbox: ~  
b2111933@b2111933-virtualbox:~$ sudo apt update  
[sudo] password for b2111933:  
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]  
Hit:2 http://archive.ubuntu.com/ubuntu jammy InRelease  
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]  
Get:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]  
Get:5 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [802 kB]  
Get:6 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1.011 kB]
```

Updated successfully

```
b2111933@b2111933-virtualbox: ~  
File Actions Edit View Help  
b2111933@b2111933-virtualbox: ~  
b2111933@b2111933-virtualbox:~$ sudo apt install git -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
git is already the newest version (1:2.34.1-1ubuntu1.10).  
git set to manually installed.  
The following packages were automatically installed and are no longer required:  
  libflashrom1 libftdi1-2 libllvm13  
Use 'sudo apt autoremove' to remove them.  
0 upgraded, 0 newly installed, 0 to remove and 45 not upgraded.  
b2111933@b2111933-virtualbox:~$
```

Installed git successfully

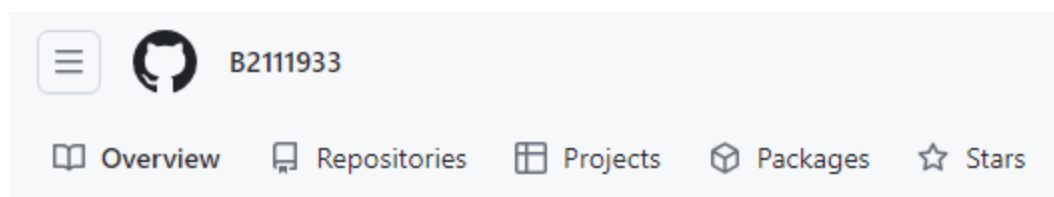
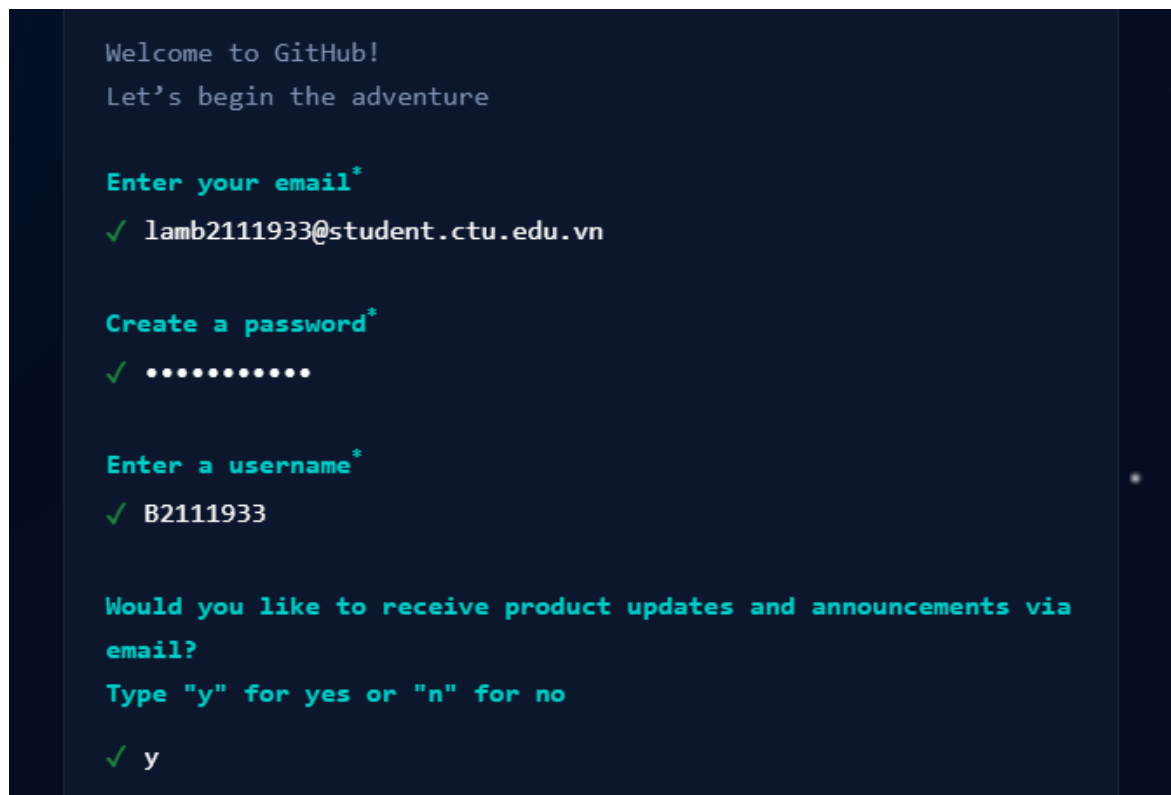
```
$git config --global user.name "Firstname Lastname"
$git config --global user.email "example@ctu.edu.vn"
```

A terminal window titled "b2111933@b2111933-virtualbox: ~" with a menu bar (File, Actions, Edit, View, Help). The terminal shows the execution of two git config commands: "git config --global user.name 'B2111933'" and "git config --global user.email 'lamb211933@ctu.edu.vn'". The prompt is "b2111933@b2111933-virtualbox:~\$".

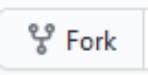
```
b2111933@b2111933-virtualbox:~$ git config --global user.name "B2111933"
b2111933@b2111933-virtualbox:~$ git config --global user.email "lamb211933@ctu.edu.vn"
b2111933@b2111933-virtualbox:~$
```

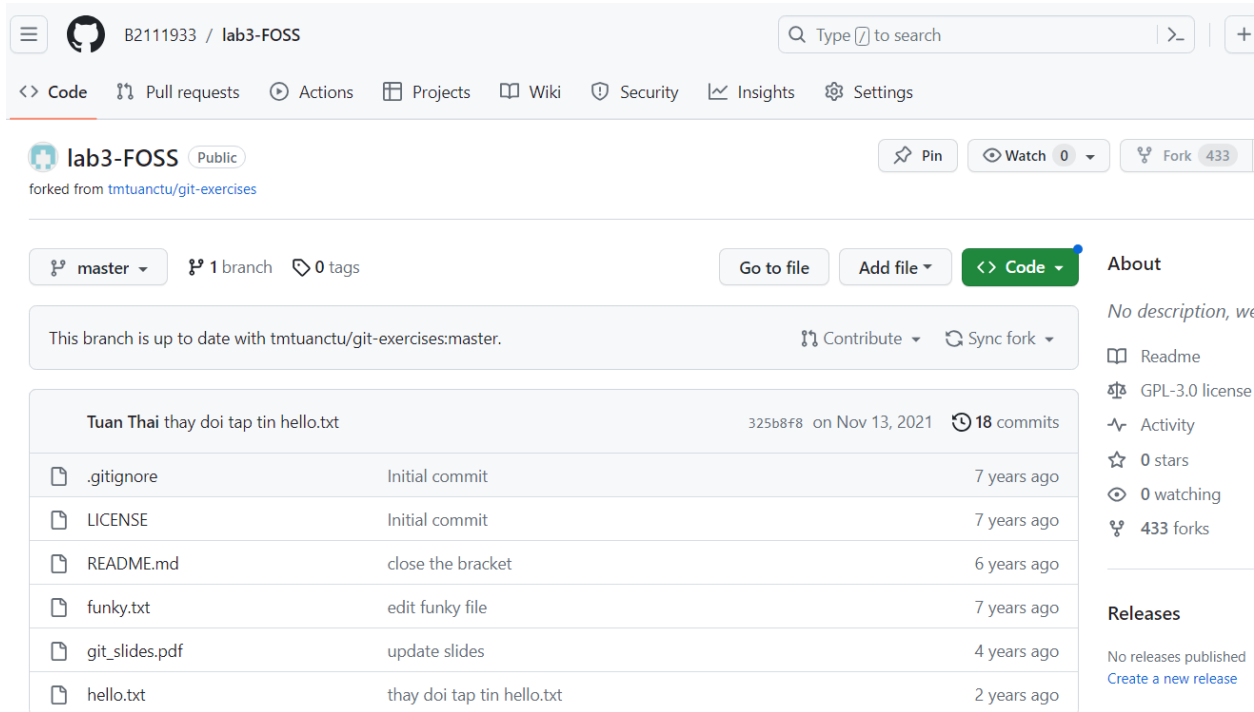
Finished configuration

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



GitHub registered

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



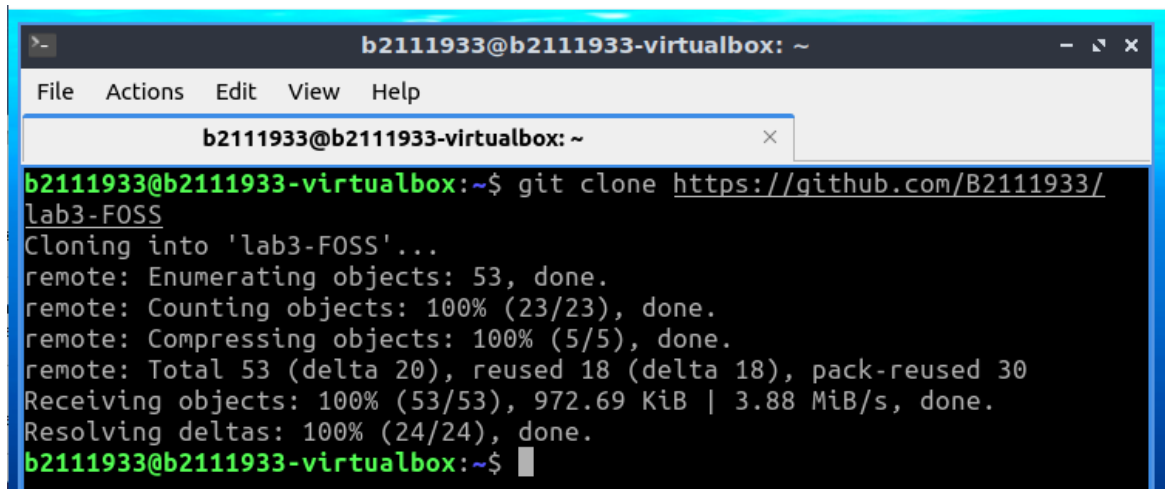
The screenshot shows the GitHub interface for a repository named 'lab3-FOSS' by user 'B2111933'. The repository is public and forked from 'tmtuanctu/git-exercises'. It has 433 forks and 0 stars. The repository is on the 'master' branch, which is up to date with the upstream. The commit history shows several files: .gitignore, LICENSE, README.md, funky.txt, git\_slides.pdf, and hello.txt, with their respective commit messages and dates. The right sidebar shows the repository's description, license (GPL-3.0), and activity.

| File           | Commit Message             | Time Ago    |
|----------------|----------------------------|-------------|
| .gitignore     | Initial commit             | 7 years ago |
| LICENSE        | Initial commit             | 7 years ago |
| README.md      | close the bracket          | 6 years ago |
| funky.txt      | edit funky file            | 7 years ago |
| git_slides.pdf | update slides              | 4 years ago |
| hello.txt      | thay doi tap tin hello.txt | 2 years ago |

Forked repository <https://github.com/TuanThai/git-exercises.git> to account **B2111933**

- Clone the forked repository to your computer

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

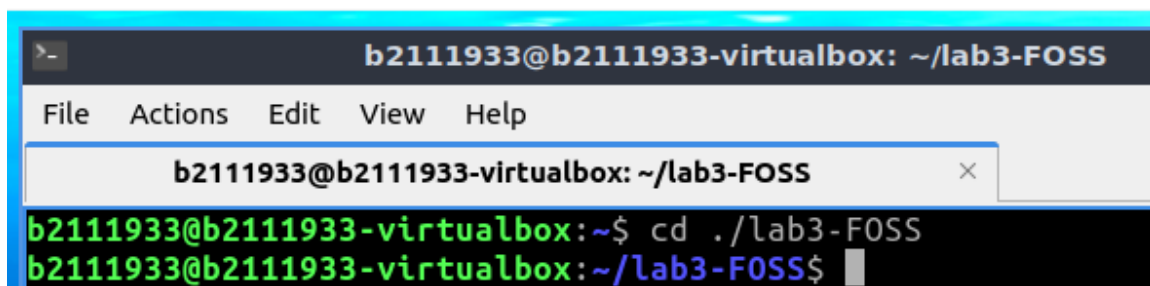


```
b2111933@b2111933-virtualbox: ~  
File Actions Edit View Help  
b2111933@b2111933-virtualbox: ~  
b2111933@b2111933-virtualbox:~$ git clone https://github.com/B2111933/lab3-FOSS  
Cloning into 'lab3-FOSS'...  
remote: Enumerating objects: 53, done.  
remote: Counting objects: 100% (23/23), done.  
remote: Compressing objects: 100% (5/5), done.  
remote: Total 53 (delta 20), reused 18 (delta 18), pack-reused 30  
Receiving objects: 100% (53/53), 972.69 KiB | 3.88 MiB/s, done.  
Resolving deltas: 100% (24/24), done.  
b2111933@b2111933-virtualbox:~$
```

**Cloned** the forked repository to my computer successfully

- Create and add a new file `helloworld.py`

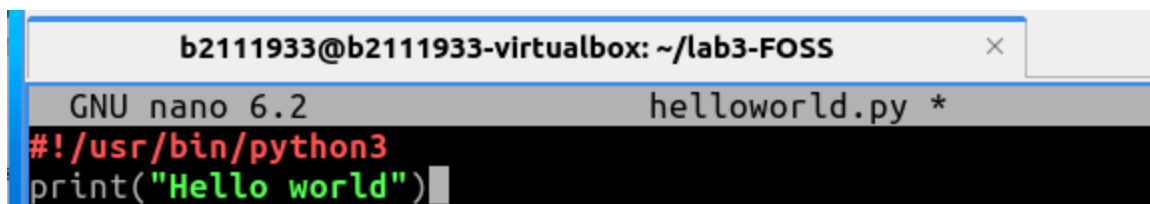
```
$cd ../git-exercises
```

A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' with a menu bar (File, Actions, Edit, View, Help). The terminal shows the command 'cd ../lab3-FOSS' being executed, changing the current directory to the forked repository.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
b2111933@b2111933-virtualbox:~$ cd ../lab3-FOSS
b2111933@b2111933-virtualbox:~/lab3-FOSS$
```

Changed the **working directory** to the **forked repository**

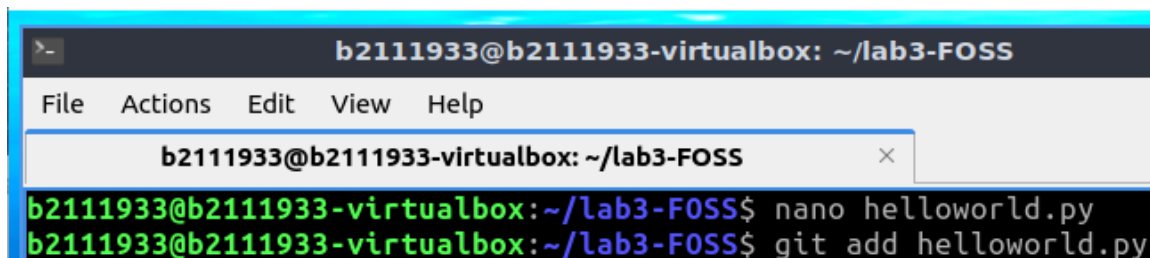
```
$nano helloworld.py
#!/usr/bin/python3
print("Hello world")
```

A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' showing the nano 6.2 editor. The file 'helloworld.py' is open, and the content '#!/usr/bin/python3' and 'print("Hello world")' is visible.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
GNU nano 6.2 helloworld.py *
#!/usr/bin/python3
print("Hello world")
```

Created file **helloworld.py**

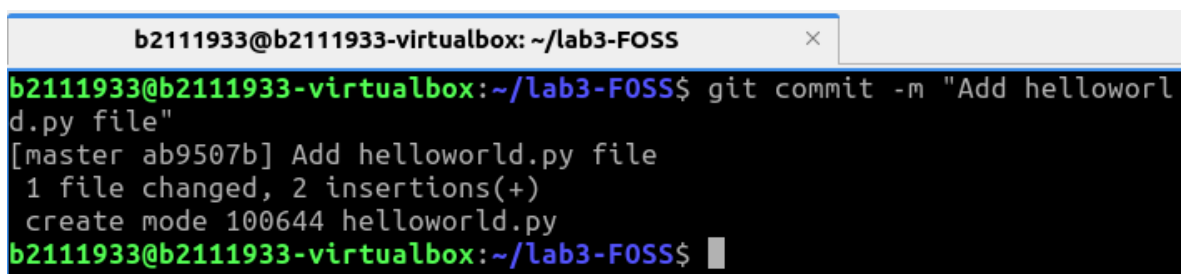
```
$git add helloworld.py
```

A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' showing the command 'git add helloworld.py' being executed.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
b2111933@b2111933-virtualbox:~/lab3-FOSS$ nano helloworld.py
b2111933@b2111933-virtualbox:~/lab3-FOSS$ git add helloworld.py
```

Added file **helloworld.py**

```
$git commit -m "Add helloworld.py file"
```

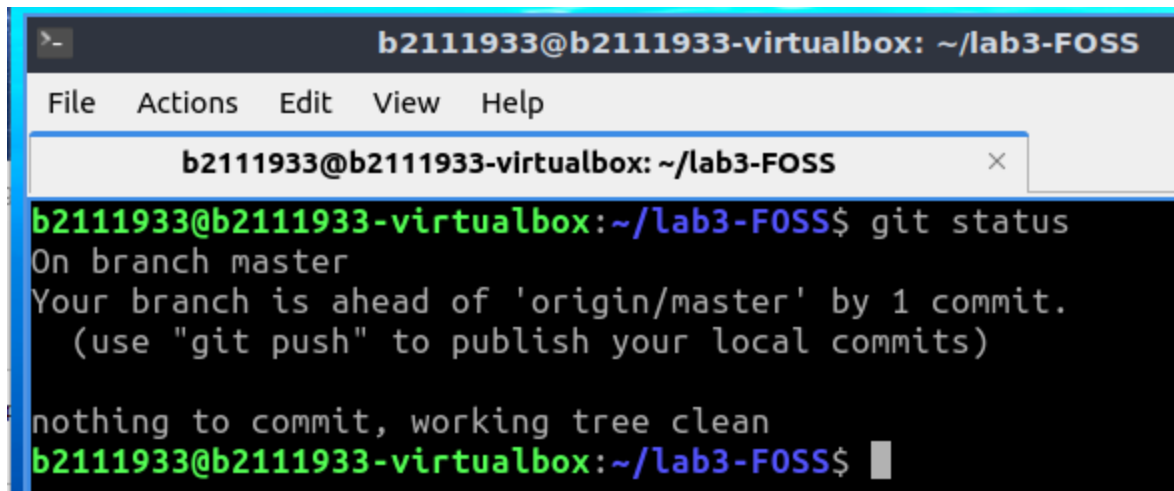
A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' showing the command 'git commit -m "Add helloworld.py file"' being executed. The output shows the commit was successful, creating a new file.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
b2111933@b2111933-virtualbox:~/lab3-FOSS$ git commit -m "Add helloworld.py file"
[master ab9507b] Add helloworld.py file
1 file changed, 2 insertions(+)
create mode 100644 helloworld.py
b2111933@b2111933-virtualbox:~/lab3-FOSS$
```

Committed file **helloworld.py**

- Examine the state of your repo

```
$git status
```

A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' with a menu bar (File, Actions, Edit, View, Help). The terminal shows the command 'git status' and its output: 'On branch master', 'Your branch is ahead of 'origin/master' by 1 commit. (use "git push" to publish your local commits)', and 'nothing to commit, working tree clean'.

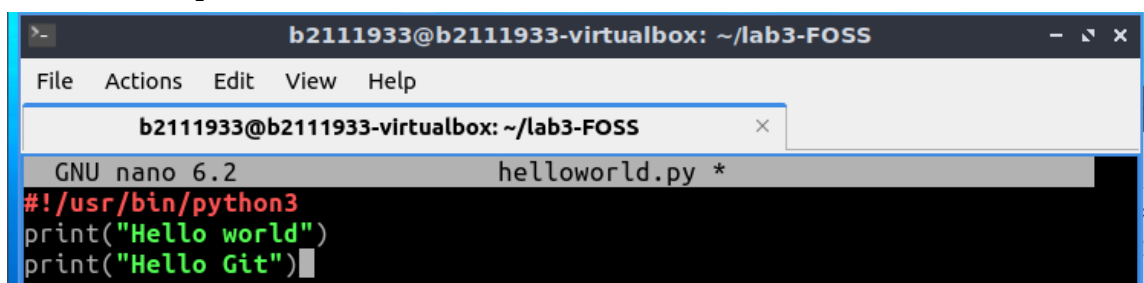
```
b2111933@b2111933-virtualbox: ~/lab3-FOSS$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
b2111933@b2111933-virtualbox:~/lab3-FOSS$
```

State of the repo

- 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

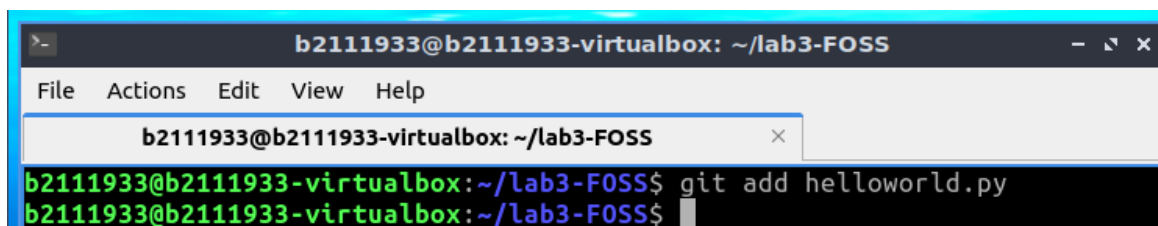
```
$nano helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello Git")
```

A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' with a menu bar (File, Actions, Edit, View, Help). It shows the GNU nano 6.2 editor editing 'helloworld.py'. The content of the file is: '#!/usr/bin/python3', 'print("Hello world")', and 'print("Hello Git")'.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
GNU nano 6.2 helloworld.py *
#!/usr/bin/python3
print("Hello world")
print("Hello Git")
```

Edited file **helloworld.py**

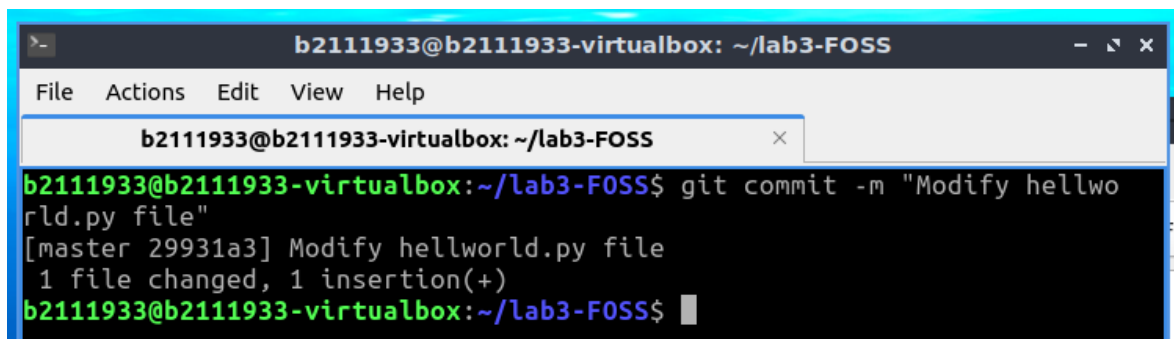
- \$git add helloworld.py

A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' with a menu bar (File, Actions, Edit, View, Help). The terminal shows the command 'git add helloworld.py' being executed.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS$ git add helloworld.py
b2111933@b2111933-virtualbox:~/lab3-FOSS$
```

Added the file to the staging area

```
$git commit -m "Modify hellworld.py file"
```

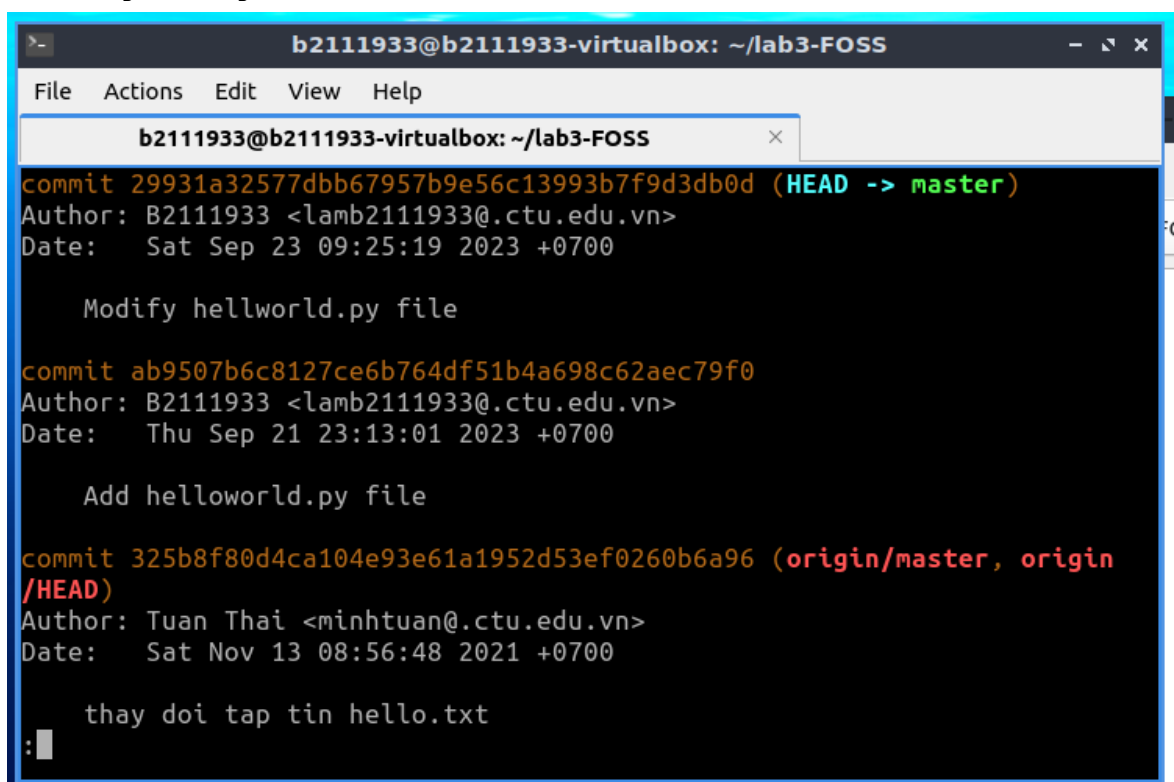
A screenshot of a terminal window titled "b2111933@b2111933-virtualbox: ~/lab3-FOSS". The terminal shows the command "git commit -m 'Modify hellworld.py file'" being executed. The output indicates a successful commit to the master branch, showing the commit hash [master 29931a3], the commit message "Modify hellworld.py file", and that 1 file changed with 1 insertion(+).

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS$ git commit -m "Modify hellworld.py file"
[master 29931a3] Modify hellworld.py file
1 file changed, 1 insertion(+)
b2111933@b2111933-virtualbox: ~/lab3-FOSS$
```

Committed successfully

- View the log

```
$git log
```

A screenshot of a terminal window titled "b2111933@b2111933-virtualbox: ~/lab3-FOSS". The terminal shows the output of the "git log" command. It displays three commits in reverse chronological order. The first commit is by B2111933, titled "Modify hellworld.py file". The second commit is also by B2111933, titled "Add helloworld.py file". The third commit is by Tuan Thai, titled "thay doi tap tin hello.txt".

```
commit 29931a32577dbb67957b9e56c13993b7f9d3db0d (HEAD -> master)
Author: B2111933 <lamb2111933@ctu.edu.vn>
Date: Sat Sep 23 09:25:19 2023 +0700

    Modify hellworld.py file

commit ab9507b6c8127ce6b764df51b4a698c62aec79f0
Author: B2111933 <lamb2111933@ctu.edu.vn>
Date: Thu Sep 21 23:13:01 2023 +0700

    Add helloworld.py file

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
:
```

This is the log

- 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)

Fine-grained personal access tokens Beta

Generate new token

These are fine-grained, repository-scoped tokens suitable for personal [API](#) use and for using Git over HTTPS.

 **suttocdo**

Never used Delete

Expires on *Mon, Oct 23 2023*.

Generated a token

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
File Actions Edit View Help
b2111933@b2111933-virtualbox: ~/lab3-FOSS
b2111933@b2111933-virtualbox:~/lab3-FOSS$ git push
Username for 'https://github.com': B2111933
Password for 'https://B2111933@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 2 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 580 bytes | 580.00 KiB/s, done.
Total 6 (delta 2), reused 1 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/B2111933/lab3-FOSS
    325b8f8..29931a3  master -> master
b2111933@b2111933-virtualbox:~/lab3-FOSS$
```

Pushed successfully


- Invite someone to be a collaborator of Github repository


Manage access

Add people

☐ Select all Type ▾


☐

**Do Ly Anh Thu**  
Awaiting dolyanthu's response

Pending Invite 


Remove


☐

**LamSut**  
Collaborator

Remove

☐

**Lê Xuân Thành**  
Awaiting lxthanh's response

Pending Invite 

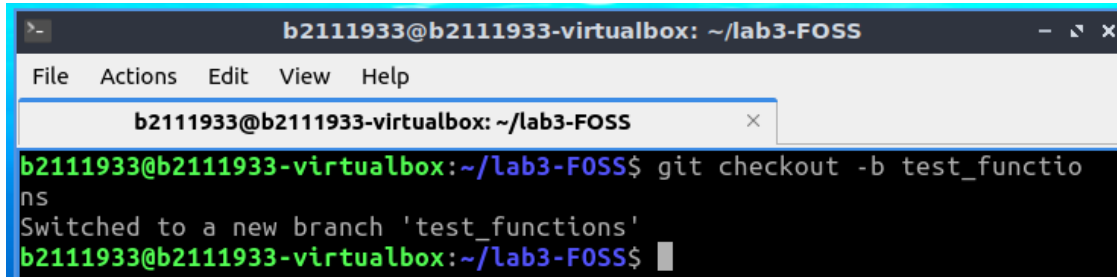
Remove

I have invited my friends to be collaborators of my 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
```

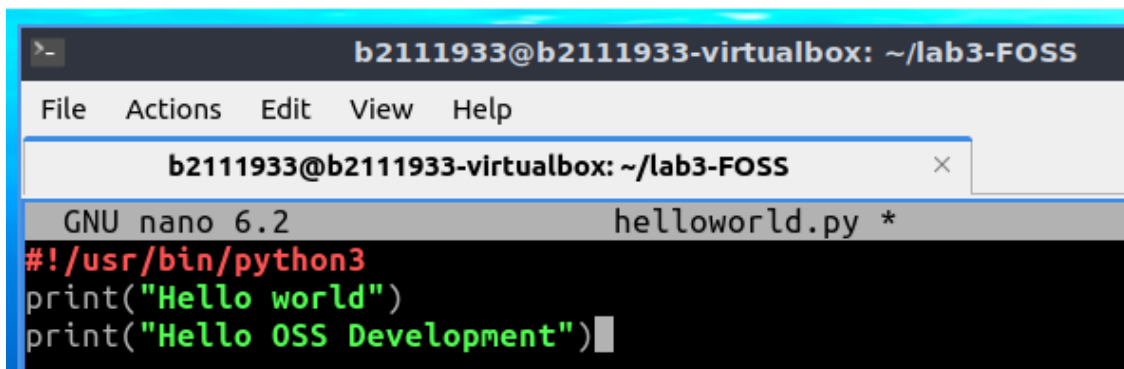
A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' with a menu bar (File, Actions, Edit, View, Help). The command 'git checkout -b test\_functions' is entered and executed. The output shows 'Switched to a new branch 'test\_functions''.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS$ git checkout -b test_functions
Switched to a new branch 'test_functions'
b2111933@b2111933-virtualbox: ~/lab3-FOSS$
```

Created a new branch named **test\_functions**

- Edit helloworld.py file and commit the result

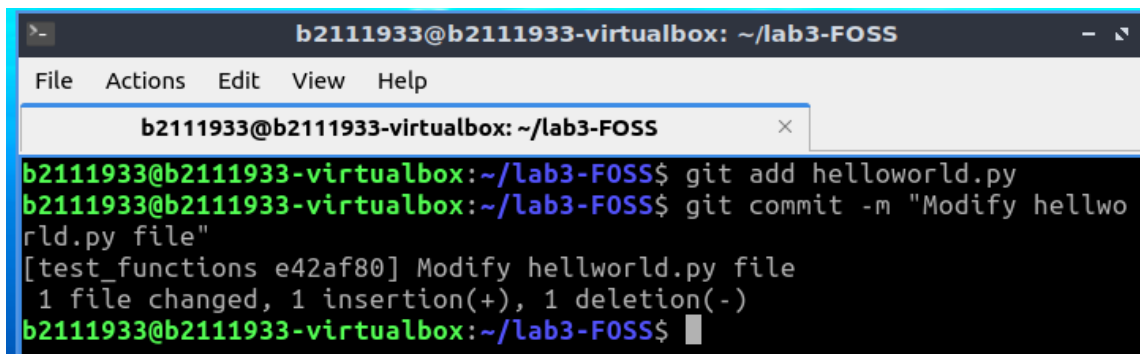
```
$nano helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
```

A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' with a menu bar (File, Actions, Edit, View, Help). The GNU nano 6.2 editor is open for 'helloworld.py'. The file content is visible: a shebang line and two print statements.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
GNU nano 6.2 helloworld.py *
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
```

Edited file **helloworld.py**

```
$git add helloworld.py
$git commit -m "Modify helloworld.py file"
```

A terminal window titled 'b2111933@b2111933-virtualbox: ~/lab3-FOSS' with a menu bar (File, Actions, Edit, View, Help). The commands 'git add helloworld.py' and 'git commit -m "Modify helloworld.py file"' are entered and executed. The output shows the commit details: '[test\_functions e42af80] Modify helloworld.py file' and '1 file changed, 1 insertion(+), 1 deletion(-)'.

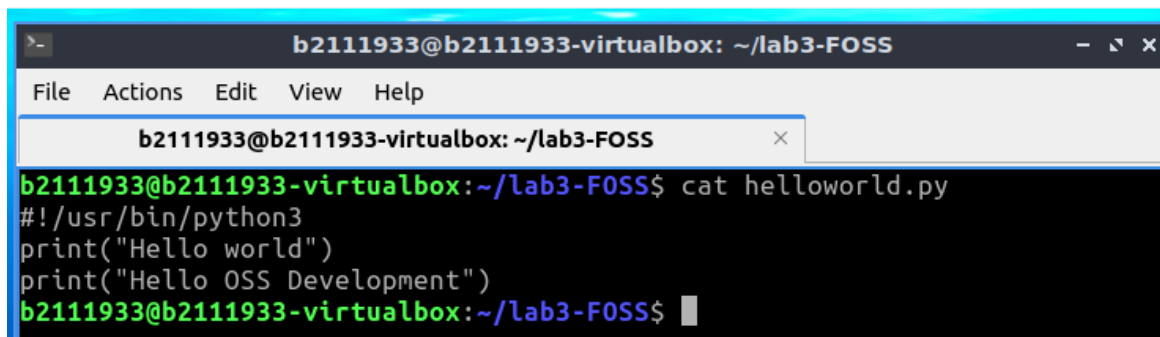
```
b2111933@b2111933-virtualbox: ~/lab3-FOSS$ git add helloworld.py
b2111933@b2111933-virtualbox: ~/lab3-FOSS$ git commit -m "Modify helloworld.py file"
[test_functions e42af80] Modify helloworld.py file
1 file changed, 1 insertion(+), 1 deletion(-)
b2111933@b2111933-virtualbox: ~/lab3-FOSS$
```

Committed the result



- Display `helloworld.py` content

```
$cat helloworld.py
```

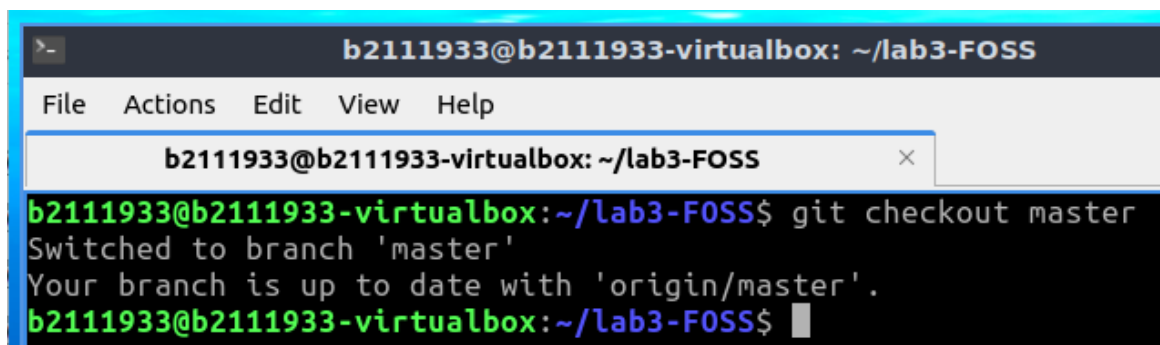


A terminal window titled "b2111933@b2111933-virtualbox: ~/lab3-FOSS" with a menu bar (File, Actions, Edit, View, Help). The terminal shows the command `cat helloworld.py` and its output: `#!/usr/bin/python3`, `print("Hello world")`, and `print("Hello OSS Development")`. The prompt is `b2111933@b2111933-virtualbox:~/lab3-FOSS$`.

Displayed `helloworld.py` content (in `test_functions` branch)

- Swap back to the “master” branch

```
$git checkout master
```

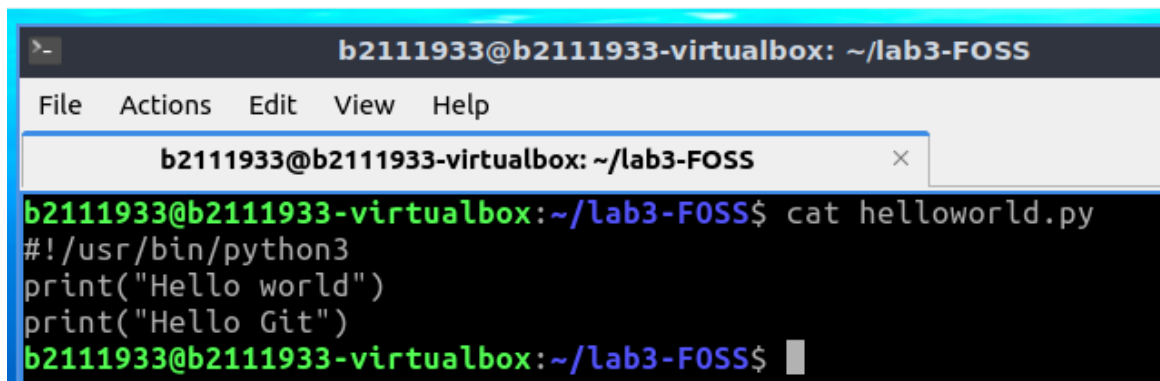


A terminal window titled "b2111933@b2111933-virtualbox: ~/lab3-FOSS" with a menu bar (File, Actions, Edit, View, Help). The terminal shows the command `git checkout master` and its output: `Switched to branch 'master'` and `Your branch is up to date with 'origin/master'.` The prompt is `b2111933@b2111933-virtualbox:~/lab3-FOSS$`.

Got back to the `master` branch

- Display `helloworld.py` content

```
$cat helloworld.py
```

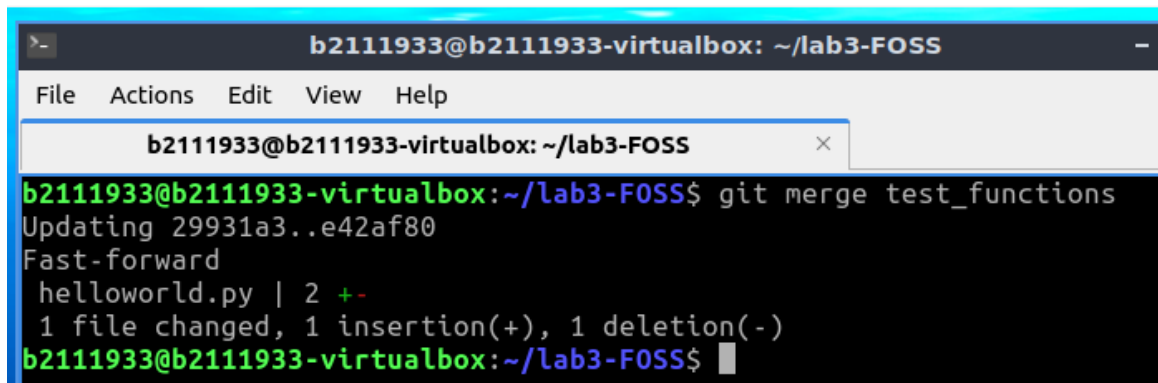


A terminal window titled "b2111933@b2111933-virtualbox: ~/lab3-FOSS" with a menu bar (File, Actions, Edit, View, Help). The terminal shows the command `cat helloworld.py` and its output: `#!/usr/bin/python3`, `print("Hello world")`, and `print("Hello Git")`. The prompt is `b2111933@b2111933-virtualbox:~/lab3-FOSS$`.

Displayed `helloworld.py` content (in `master` branch)

- Merge “test\_functions” branch to “master”

```
$git merge test_functions
```

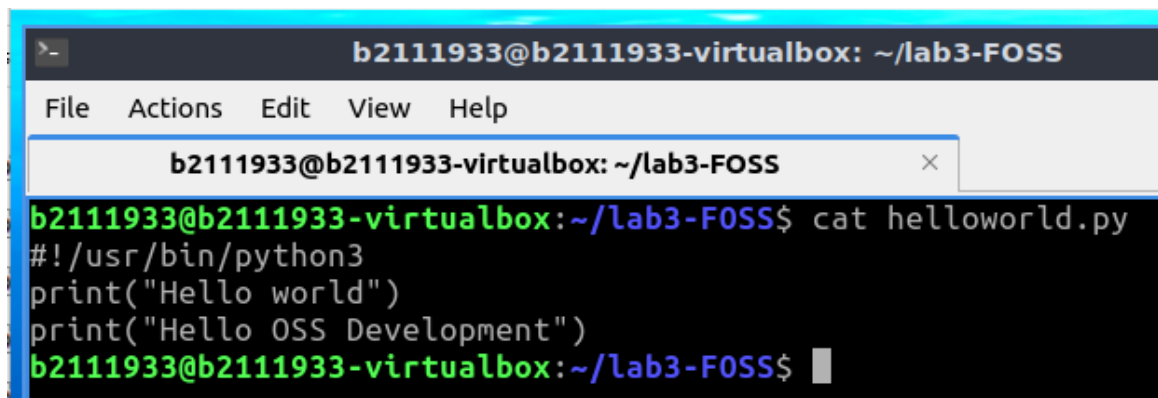


The screenshot shows a terminal window titled "b2111933@b2111933-virtualbox: ~/lab3-FOSS". The terminal output shows the command `git merge test_functions` being executed. The output indicates a fast-forward merge: "Updating 29931a3..e42af80", "Fast-forward", and "helloworld.py | 2 +". It also states "1 file changed, 1 insertion(+), 1 deletion(-)". The prompt returns to `b2111933@b2111933-virtualbox:~/lab3-FOSS$`.

Merged **test\_functions** branch to **master**

- Display `helloworld.py` content. Are there any conflicts?

```
$cat helloworld.py
```



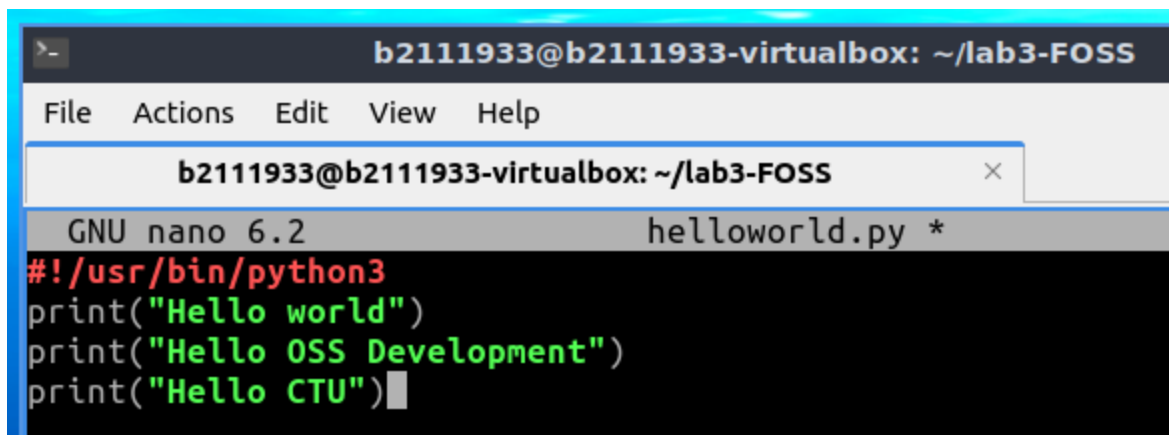
The screenshot shows a terminal window titled "b2111933@b2111933-virtualbox: ~/lab3-FOSS". The terminal output shows the command `cat helloworld.py` being executed. The output displays the content of the file: `#!/usr/bin/python3`, `print("Hello world")`, and `print("Hello OSS Development")`. The prompt returns to `b2111933@b2111933-virtualbox:~/lab3-FOSS$`.

Displayed **helloworld.py** content, we can see that file **helloworld.py** in **master** branch was replaced by the one in **test\_functions** branch. There was no conflict.

- Edit `helloworld.py` file and commit the result

```
$nano helloworld.py
```

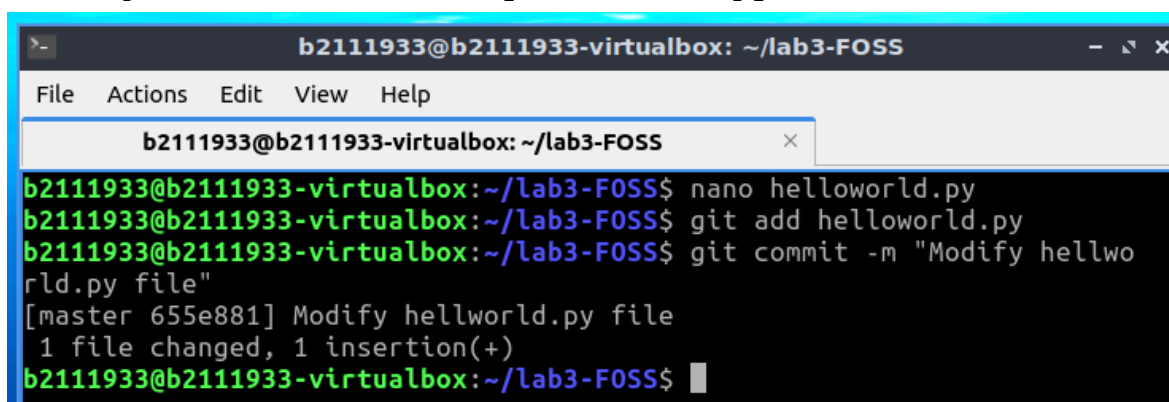
```
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
print("Hello CTU")
```



A screenshot of a terminal window with a nano editor interface. The title bar shows the user 'b2111933' on a 'b2111933-virtualbox' machine in the directory '~/lab3-FOSS'. The menu bar includes 'File', 'Actions', 'Edit', 'View', and 'Help'. The editor window shows the file 'helloworld.py' with the following content: `#!/usr/bin/python3`, `print("Hello world")`, `print("Hello OSS Development")`, and `print("Hello CTU")`. The cursor is at the end of the last line.

Edited file **helloworld.py**

```
$git add helloworld.py
$git commit -m "Modify helloworld.py file"
```

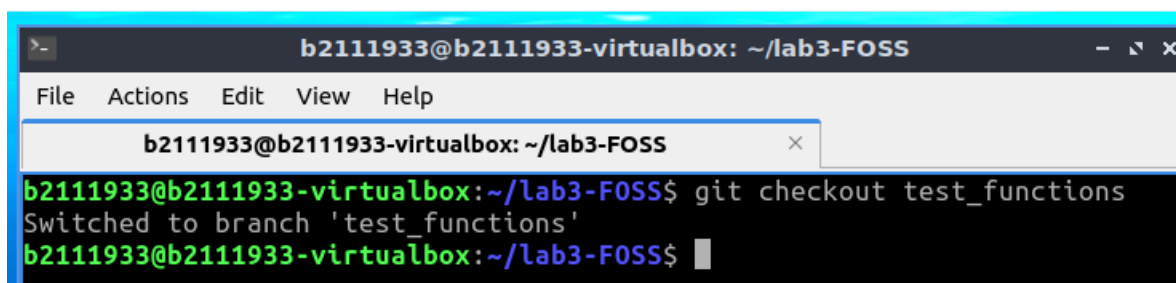


A screenshot of a terminal window showing the execution of git commands. The prompt is `b2111933@b2111933-virtualbox:~/lab3-FOSS$`. The commands and their output are: `nano helloworld.py`, `git add helloworld.py`, and `git commit -m "Modify helloworld.py file"`. The commit message is `[master 655e881] Modify helloworld.py file`, and the output indicates `1 file changed, 1 insertion(+)`.

Committed the result

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

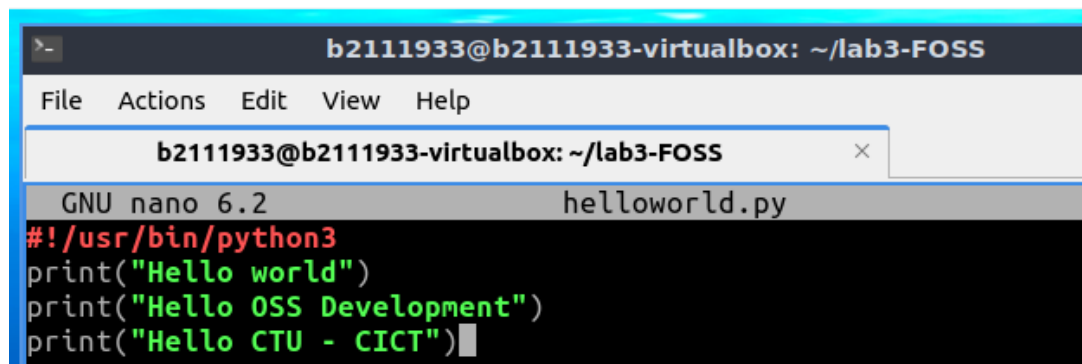
```
$git checkout
```



A screenshot of a terminal window showing the execution of `git checkout`. The prompt is `b2111933@b2111933-virtualbox:~/lab3-FOSS$`. The command `git checkout test_functions` is entered, and the output is `Switched to branch 'test_functions'`.

Switched to branch **test\_functions**

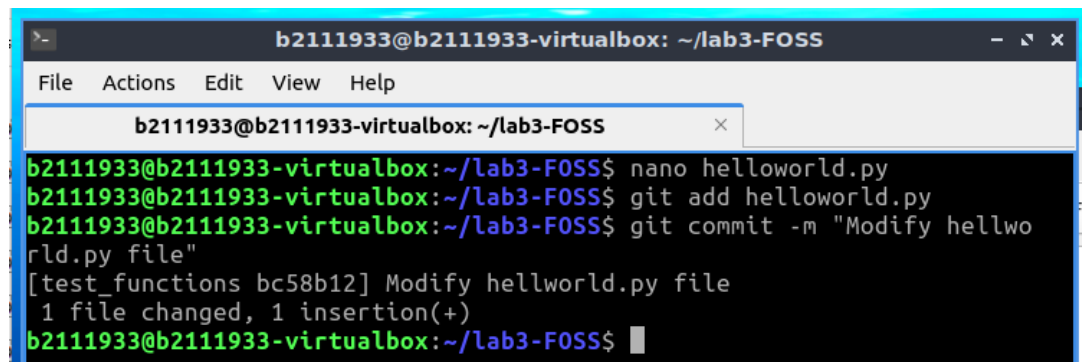
```
$nano helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
print("Hello CTU - CICT")
```

A screenshot of a terminal window with the nano text editor open. The title bar shows 'b2111933@b2111933-virtualbox: ~/lab3-FOSS'. The menu bar includes 'File', 'Actions', 'Edit', 'View', and 'Help'. The status bar at the bottom indicates 'GNU nano 6.2' and the filename 'helloworld.py'. The editor content shows a Python script with three print statements: 'Hello world', 'Hello OSS Development', and 'Hello CTU - CICT'. The cursor is at the end of the third line.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
File Actions Edit View Help
b2111933@b2111933-virtualbox: ~/lab3-FOSS
GNU nano 6.2 helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
print("Hello CTU - CICT")
```

Edited file **helloworld.py**

```
$git add helloworld.py
$git commit -m "Modify helloworld.py file"
```

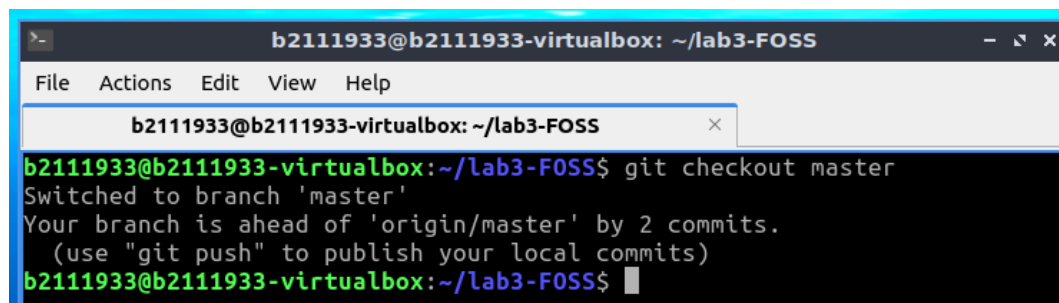
A screenshot of a terminal window showing the execution of git commands. The title bar is 'b2111933@b2111933-virtualbox: ~/lab3-FOSS'. The terminal shows the commands 'nano helloworld.py', 'git add helloworld.py', and 'git commit -m "Modify helloworld.py file"'. The output shows the commit hash 'bc58b12' and a message '1 file changed, 1 insertion(+)'.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
File Actions Edit View Help
b2111933@b2111933-virtualbox: ~/lab3-FOSS
b2111933@b2111933-virtualbox:~/lab3-FOSS$ nano helloworld.py
b2111933@b2111933-virtualbox:~/lab3-FOSS$ git add helloworld.py
b2111933@b2111933-virtualbox:~/lab3-FOSS$ git commit -m "Modify helloworld.py file"
[test_functions bc58b12] Modify helloworld.py file
1 file changed, 1 insertion(+)
b2111933@b2111933-virtualbox:~/lab3-FOSS$
```

Committed the result

- Swap back to the “master” branch, merge “test\_functions” branch to “master”

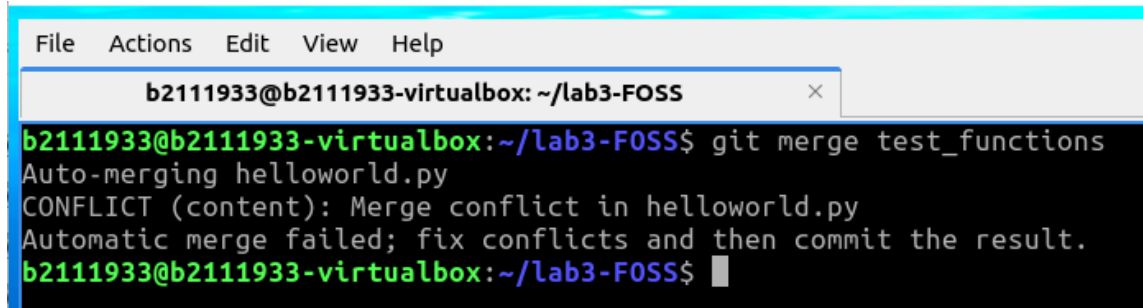
```
$git checkout master
```

A screenshot of a terminal window showing the 'git checkout master' command. The title bar is 'b2111933@b2111933-virtualbox: ~/lab3-FOSS'. The terminal shows the command and its output: 'Switched to branch 'master'', 'Your branch is ahead of 'origin/master' by 2 commits.', and '(use "git push" to publish your local commits)'.

```
b2111933@b2111933-virtualbox: ~/lab3-FOSS
File Actions Edit View Help
b2111933@b2111933-virtualbox: ~/lab3-FOSS
b2111933@b2111933-virtualbox:~/lab3-FOSS$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 2 commits.
(use "git push" to publish your local commits)
b2111933@b2111933-virtualbox:~/lab3-FOSS$
```

Switched back to branch **master**

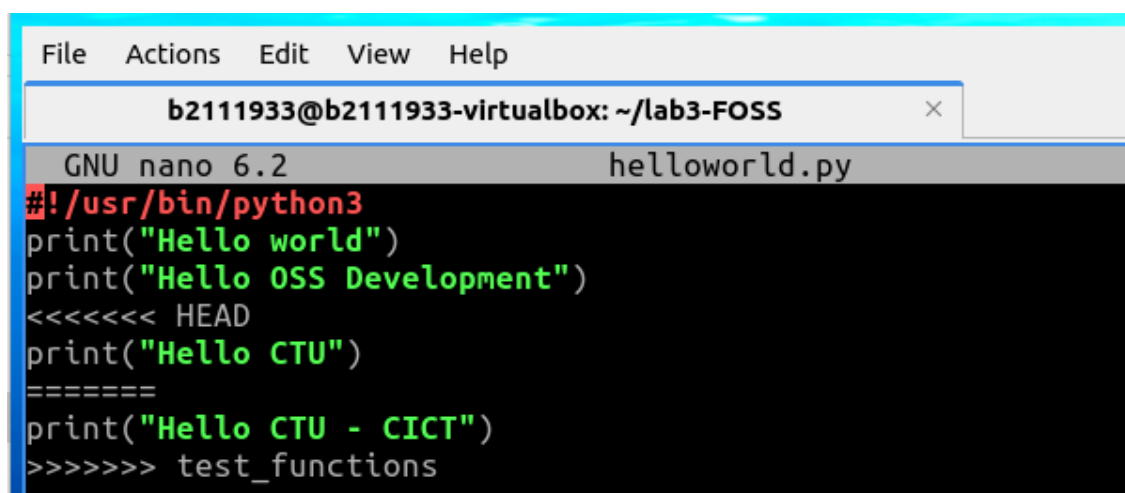
```
$git merge test_functions
```



```
File  Actions  Edit  View  Help
b2111933@b2111933-virtualbox: ~/lab3-FOSS
b2111933@b2111933-virtualbox:~/lab3-FOSS$ 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.
b2111933@b2111933-virtualbox:~/lab3-FOSS$
```

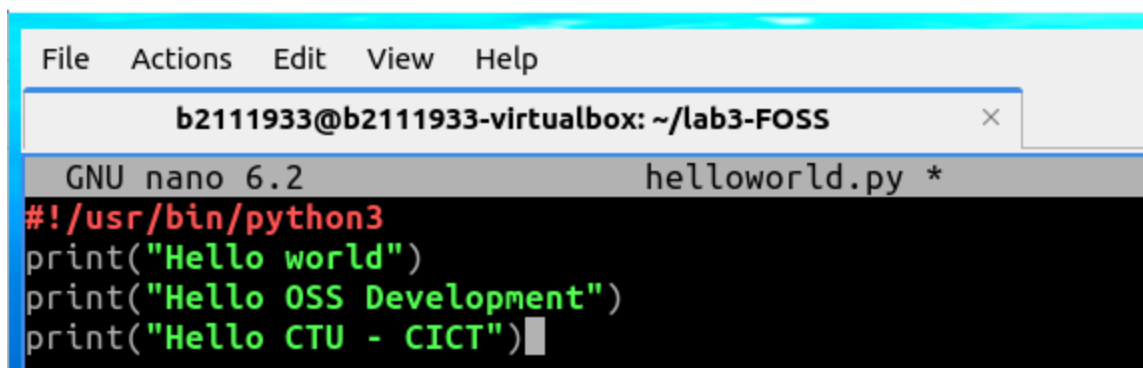
There are conflicts

- 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.



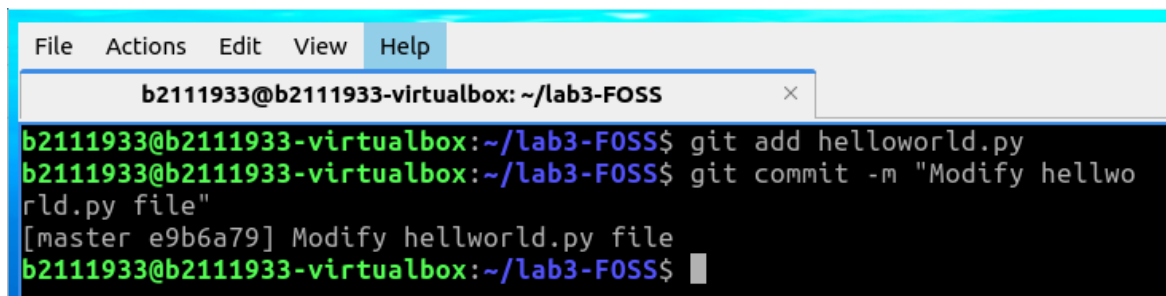
```
File  Actions  Edit  View  Help
b2111933@b2111933-virtualbox: ~/lab3-FOSS
GNU nano 6.2 helloworld.py
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
<<<<<<< HEAD
print("Hello CTU")
=====
print("Hello CTU - CICT")
>>>>>> test_functions
```

When there are **conflicts**, the file will look like this



```
File  Actions  Edit  View  Help
b2111933@b2111933-virtualbox: ~/lab3-FOSS
GNU nano 6.2 helloworld.py *
#!/usr/bin/python3
print("Hello world")
print("Hello OSS Development")
print("Hello CTU - CICT")
```

Edited file **helloworld.py**

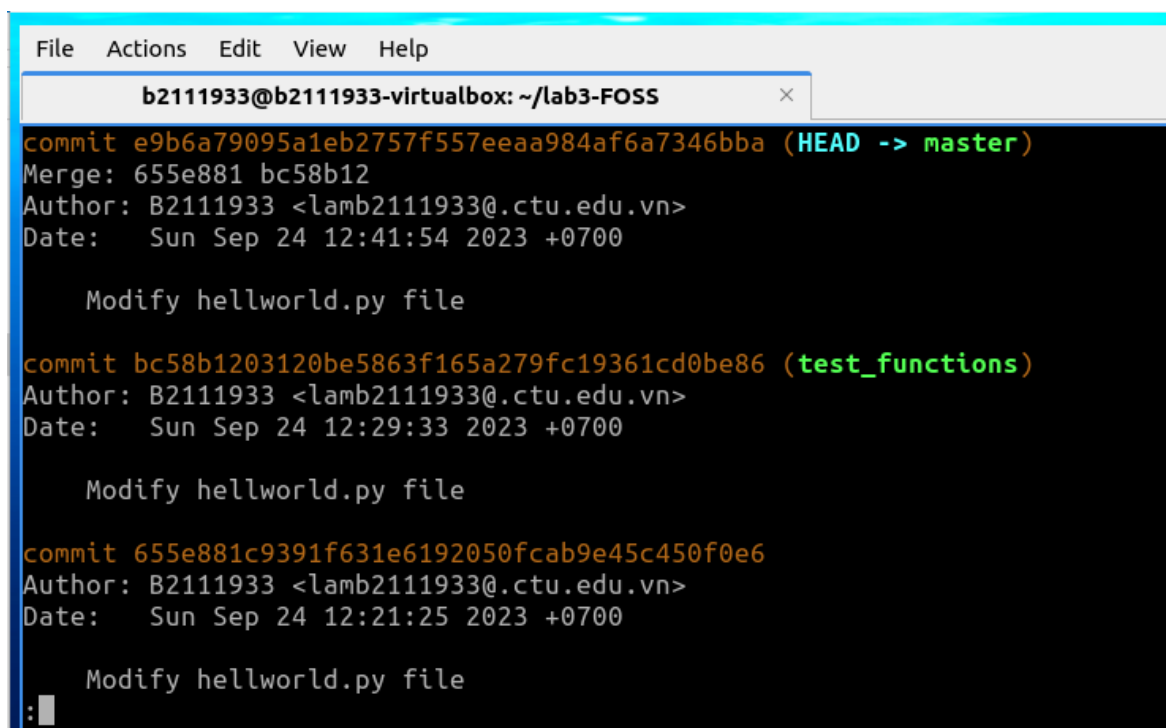
A terminal window titled "b2111933@b2111933-virtualbox: ~/lab3-FOSS" with a menu bar (File, Actions, Edit, View, Help). The terminal shows the following commands and output:

```
b2111933@b2111933-virtualbox:~/lab3-FOSS$ git add helloworld.py
b2111933@b2111933-virtualbox:~/lab3-FOSS$ git commit -m "Modify helloworld.py file"
[master e9b6a79] Modify helloworld.py file
b2111933@b2111933-virtualbox:~/lab3-FOSS$
```

Committed the result

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

\$git log

A terminal window titled "b2111933@b2111933-virtualbox: ~/lab3-FOSS" with a menu bar (File, Actions, Edit, View, Help). The terminal shows the output of the \$git log command:

```
commit e9b6a79095a1eb2757f557eeaa984af6a7346bba (HEAD -> master)
Merge: 655e881 bc58b12
Author: B2111933 <lamb2111933@ctu.edu.vn>
Date: Sun Sep 24 12:41:54 2023 +0700

    Modify helloworld.py file

commit bc58b1203120be5863f165a279fc19361cd0be86 (test_functions)
Author: B2111933 <lamb2111933@ctu.edu.vn>
Date: Sun Sep 24 12:29:33 2023 +0700

    Modify helloworld.py file

commit 655e881c9391f631e6192050fcab9e45c450f0e6
Author: B2111933 <lamb2111933@ctu.edu.vn>
Date: Sun Sep 24 12:21:25 2023 +0700

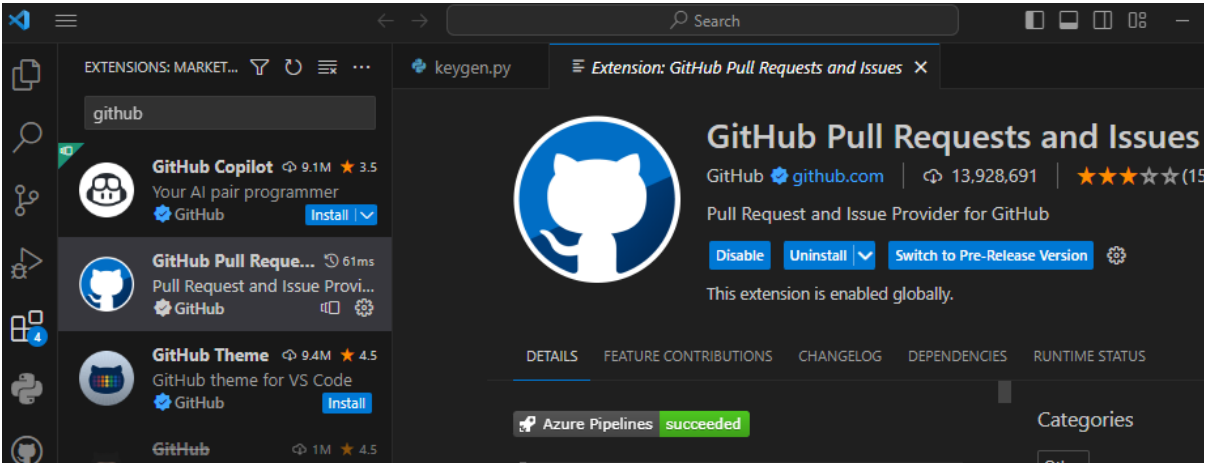
    Modify helloworld.py file
:
```

View the **log** to see the **resulting commits** on the **master** branch

(take screenshots to show that you finish this exercise)

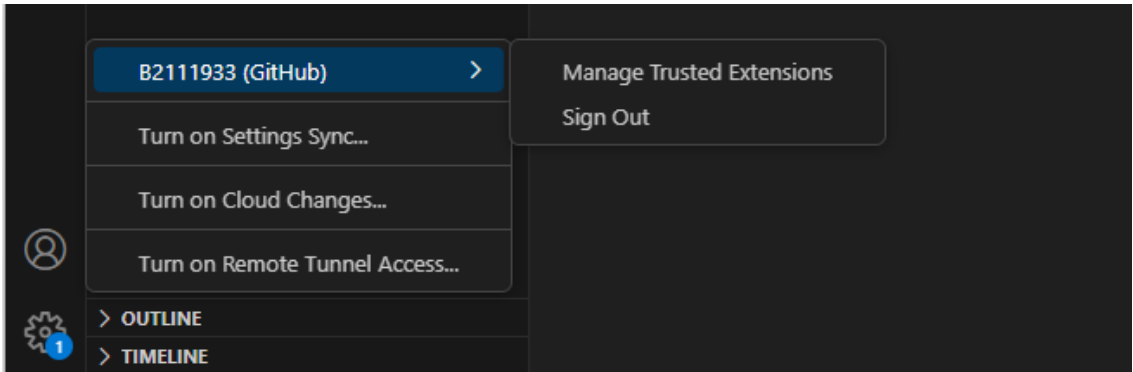
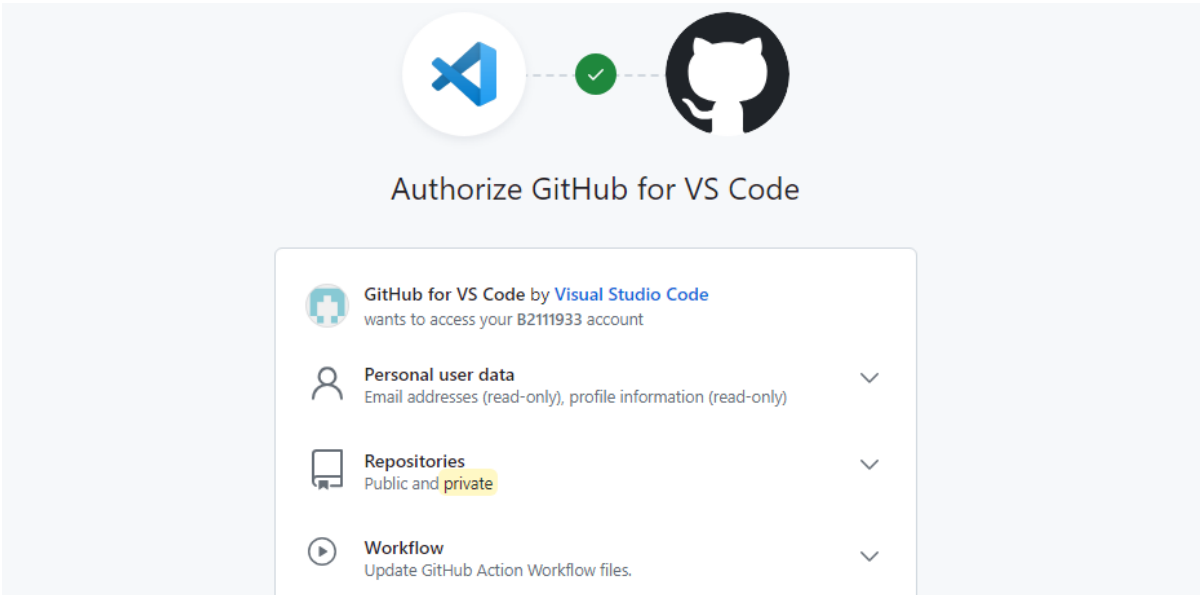
### 3. Working with GitHub in VS Code

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



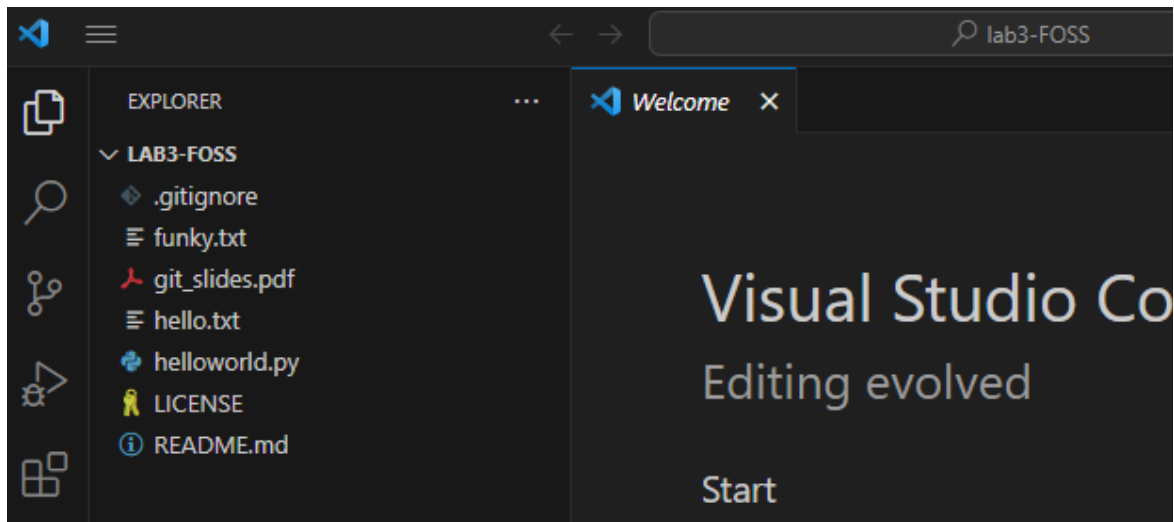
VS Code and its **GitHub Pull Requests-Issues** extension was installed successfully

- Sign in GitHub using GitHub Pull Requests and Issues extension.



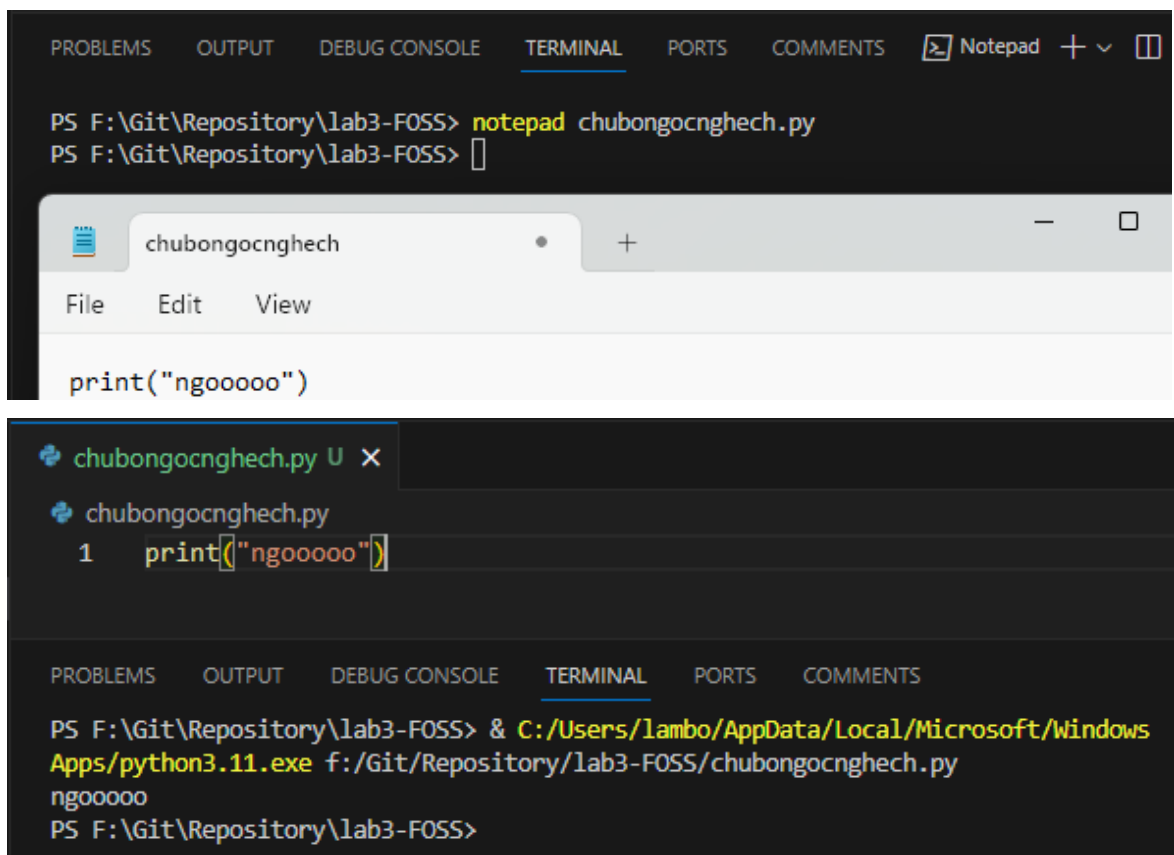
Signed in **GitHub** using **GitHub Pull Requests and Issues** extension

- Clone a remote repository to your computer.



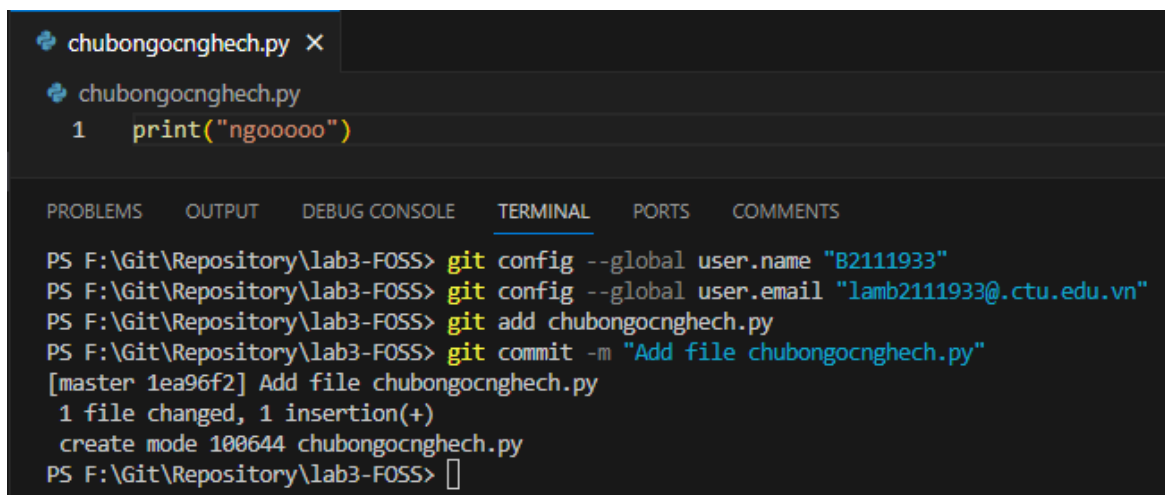
Cloned the **remote repository** in exercises above to my computer

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



Create file **chubongocnghech.py**



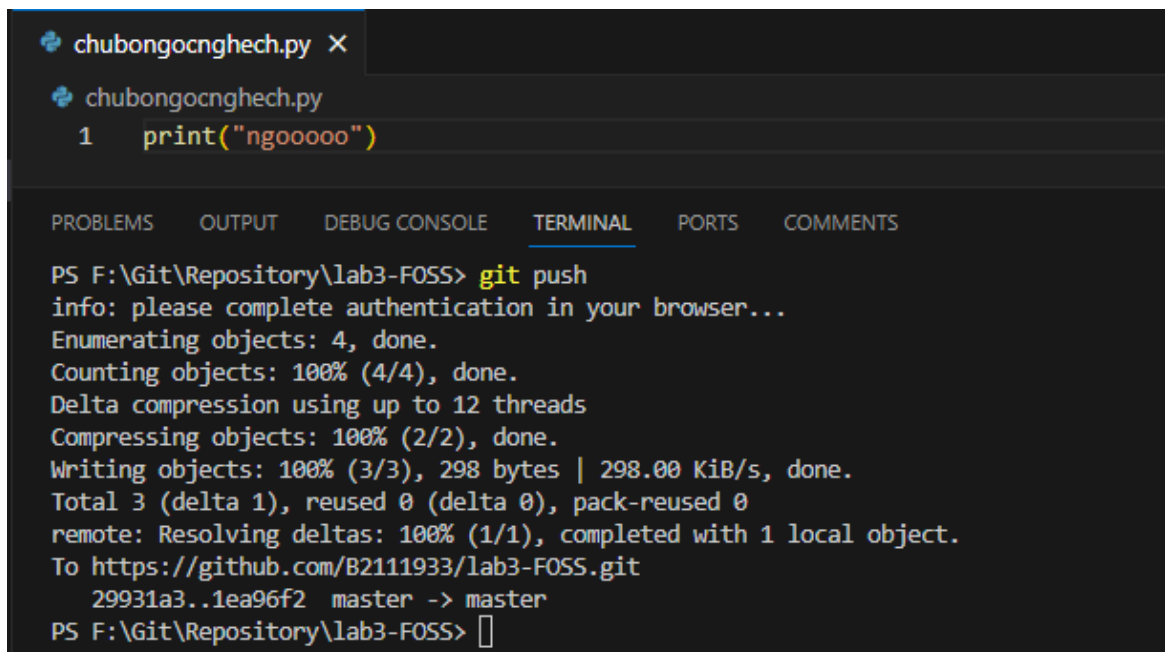


```
chubongocnghech.py X
chubongocnghech.py
1 print("ngooooo")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
PS F:\Git\Repository\lab3-FOSS> git config --global user.name "B2111933"
PS F:\Git\Repository\lab3-FOSS> git config --global user.email "lamb2111933@ctu.edu.vn"
PS F:\Git\Repository\lab3-FOSS> git add chubongocnghech.py
PS F:\Git\Repository\lab3-FOSS> git commit -m "Add file chubongocnghech.py"
[master 1ea96f2] Add file chubongocnghech.py
1 file changed, 1 insertion(+)
create mode 100644 chubongocnghech.py
PS F:\Git\Repository\lab3-FOSS> 
```

Committed the result

- Push the commits to the remote repository.

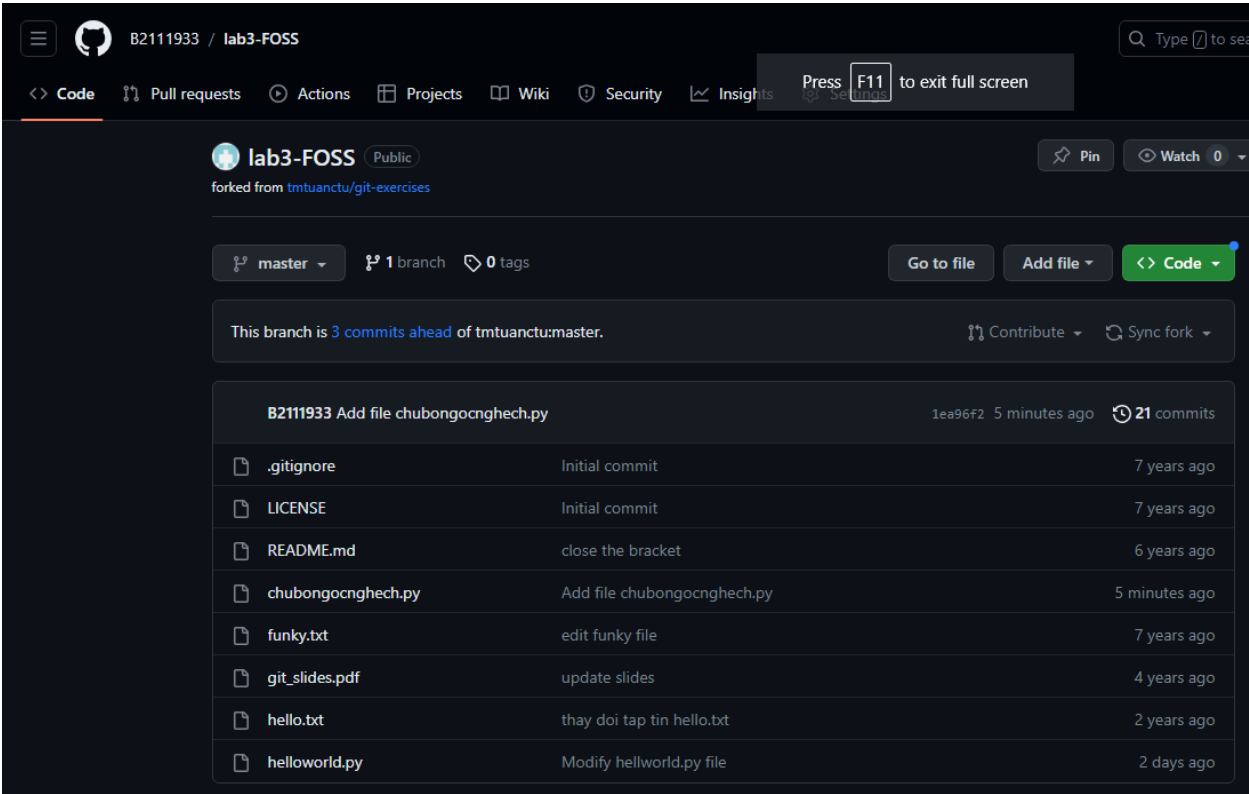


```
chubongocnghech.py X
chubongocnghech.py
1 print("ngooooo")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
PS F:\Git\Repository\lab3-FOSS> git push
info: please complete authentication in your browser...
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 298 bytes | 298.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/B2111933/lab3-FOSS.git
29931a3..1ea96f2 master -> master
PS F:\Git\Repository\lab3-FOSS> 
```

Push the commits to the remote repository

Now let's check the result



Pushed successfully

(take screenshots to show that you finish this exercise)

---END---