## **Course Preparation Introduction**

First, click the Google classroom link <a href="https://classroom.github.com/a/OV8dThDz">https://classroom.github.com/a/OV8dThDz</a> and accept the assignment, which will generate a personal GitHub link for each of your assignments [YOUR-GITHUB-ID]

For example, this is my one <a href="https://github.com/allan-tulane/sp25-course-preparation-allanding">https://github.com/allan-tulane/sp25-course-preparation-allanding</a>, where allanding is my GitHub ID.

## You're ready to go!

You accepted the assignment, SP25 Course Preparation.

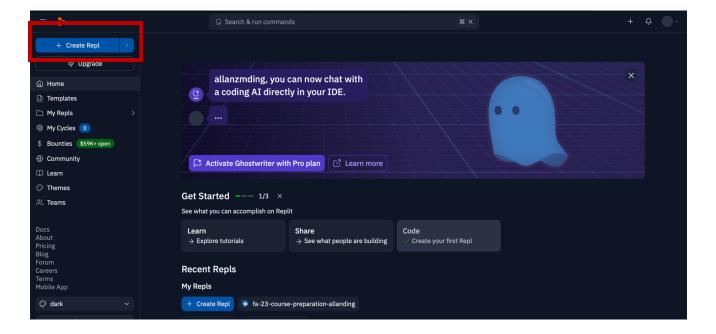
Your assignment repository has been created:

https://github.com/allan-tulane/sp25-course-preparation-allanding

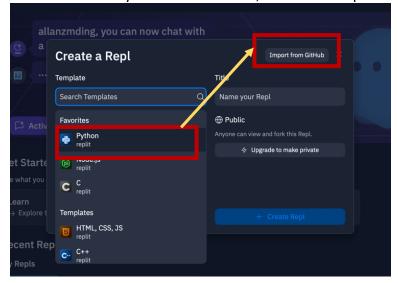
We've configured the repository associated with this assignment.

Second, import GitHub to Replit <a href="https://replit.com/">https://replit.com/</a> in Python Environment, and complete your assignment in Replit

Click "Create Repl"

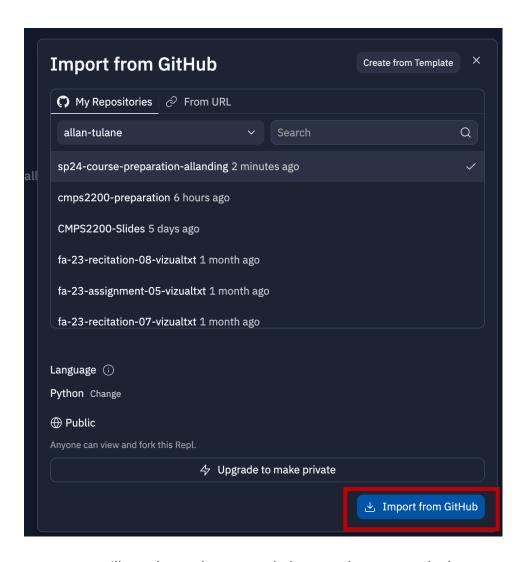


• Choose "Python" Environment, then click "Import from GitHub"

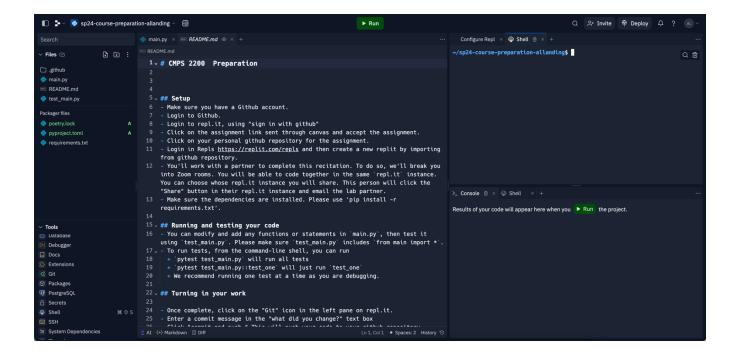


 Input GitHub URL by removing the head part and only using allan-tulane/sp25-course-preparation-allanding, then Click "Import from GitHub".

Note: The following "sp24" should be "sp25". Please ignore.



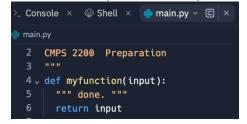
- You will see the Repl Layout as below. Maybe not exactly the same.
- Find the "Shell" under Tools, which will be our terminal to run python commands.



You can list all files by typing "Is", which is the UNIX commands

Entering Python Environment by typing "python" and exit with "exit()"

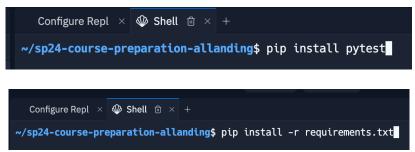
• Click the "main.py" script from Files, and you can see a predefined python function.



If you want to run this function, you can add one statement after **myfunction** as **print(myfunction('Hello World'))**, then go to Shell and type "python main.py"

Click "test\_main.py" from Files, where we will use "pytest" command to test if the function output matches what we want. The statement is "assert myfunction('Hello') == 'Hello'", where "assert" is the key word in python. There are three test cases in our given script.

The first two are True, but the third one is False. Before you run "pytest", please install it by going to Shell and typing "pip install pytest" or "pip install -r requirements.txt", where requirements.txt includes all python dependencies.



To run tests, from the command-line shell, you can run

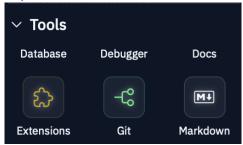
- pytest test main.py will run all tests
- pytest test main.py::test one will just run test one

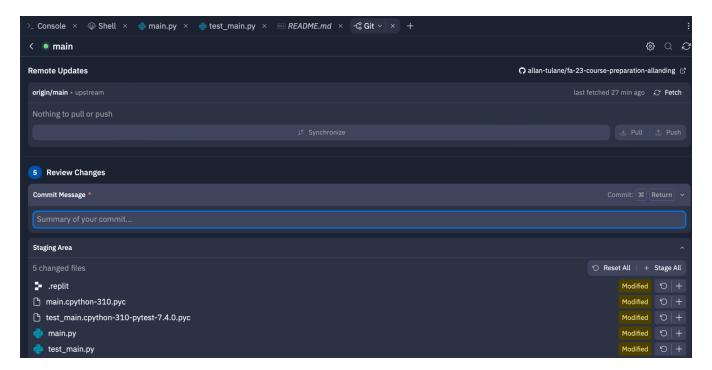
We can see the last case does not pass.

```
~/sp24-course-preparation-allanding$ pytest test_main.py
           platform linux -- Python 3.10.11, pytest-7.4.4, pluggy-1.3.0
rootdir: /home/runner/sp24-course-preparation-allanding collected 1 item
test_main.py F
                                                                   [100%]
                     test_myfunction
   def test_myfunction():
       """ done. """
       assert myfunction('Hello') == 'Hello'
assert myfunction(1) == 1
       assert myfunction(6) == -1
    assert 6 == -1
     + where 6 = myfunction(6)
test_main.py:7: AssertionError
                     === short test summary info ===
FAILED test_main.py::test_myfunction - assert 6 == -1
                      ===== 1 failed in 0.12s ==
```

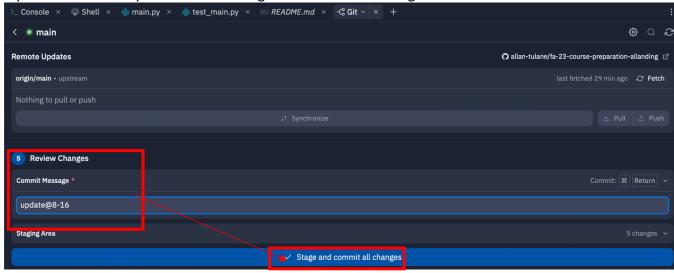
If we change the last test case "assert myfunction(6) == 6"

After you implement all tasks and test all cases, you need to commit all updates back to GitHub.
 Please find "Git" under Tools, and click it.





Input some summary and click the "Stage and commit all changes" butt



 click "push? commit" button and confirm. Then You are done. You can check your GitHub URL to see all updates.

