



Hands-on Lab: Testing Environment

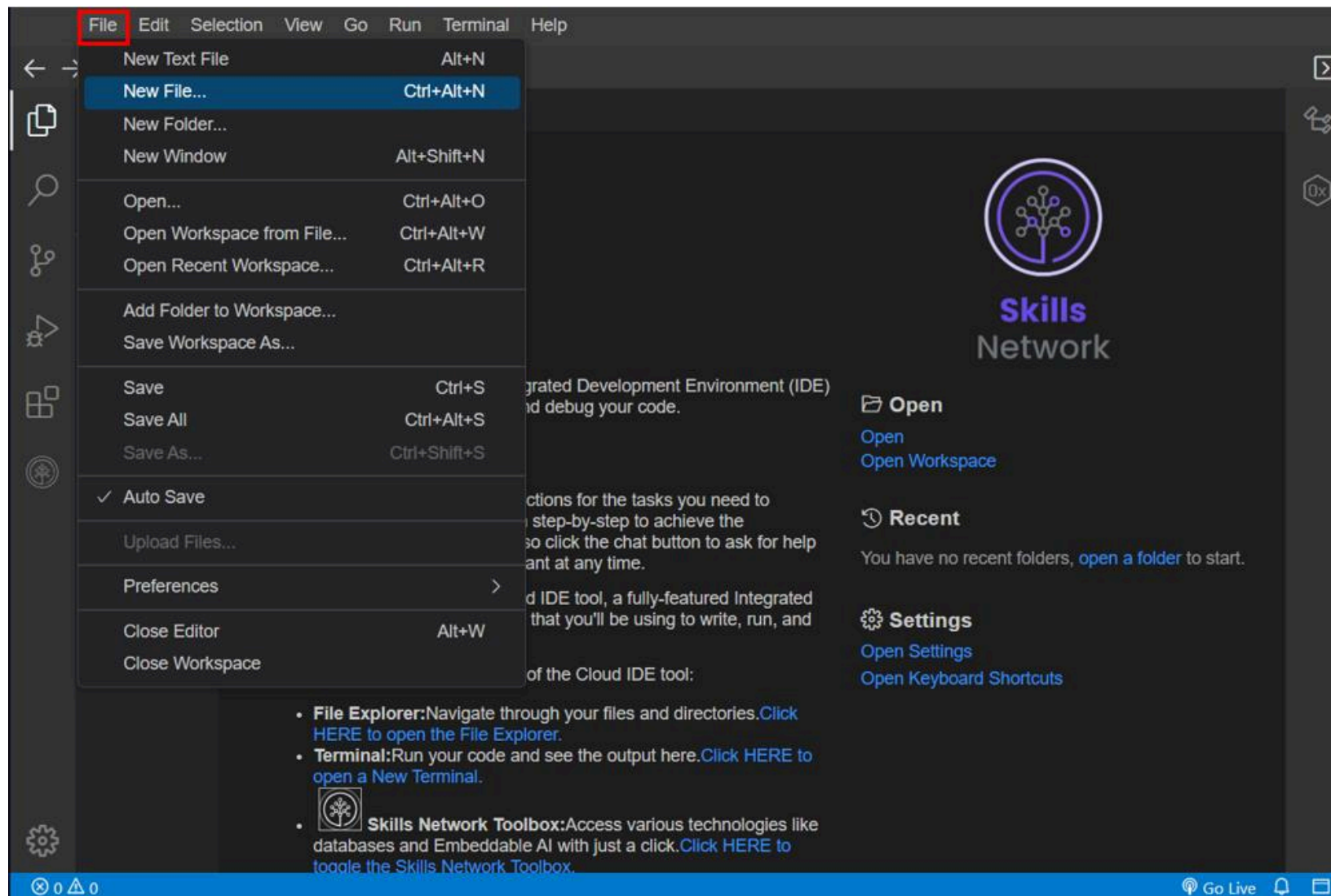
Welcome to your Cloud IDE-based testing environment!

You can test the codes created using the generative AI platform in this environment.

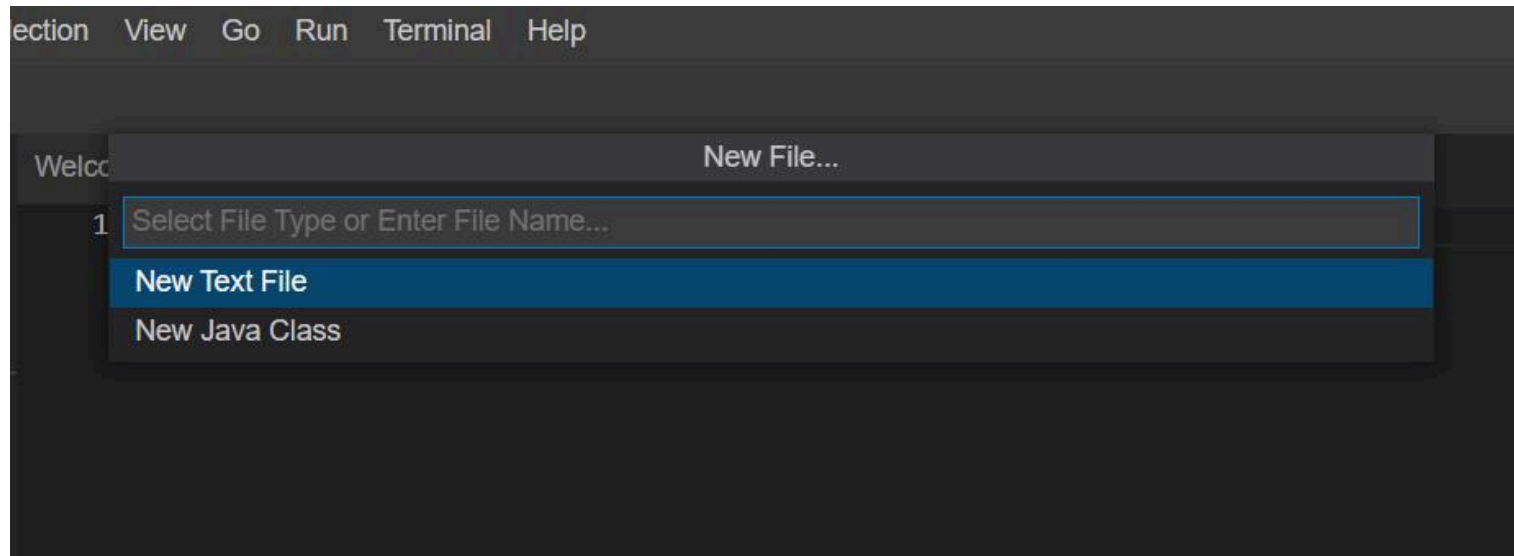
You may follow these steps to set up the environment.

Step 1: Create the Python file

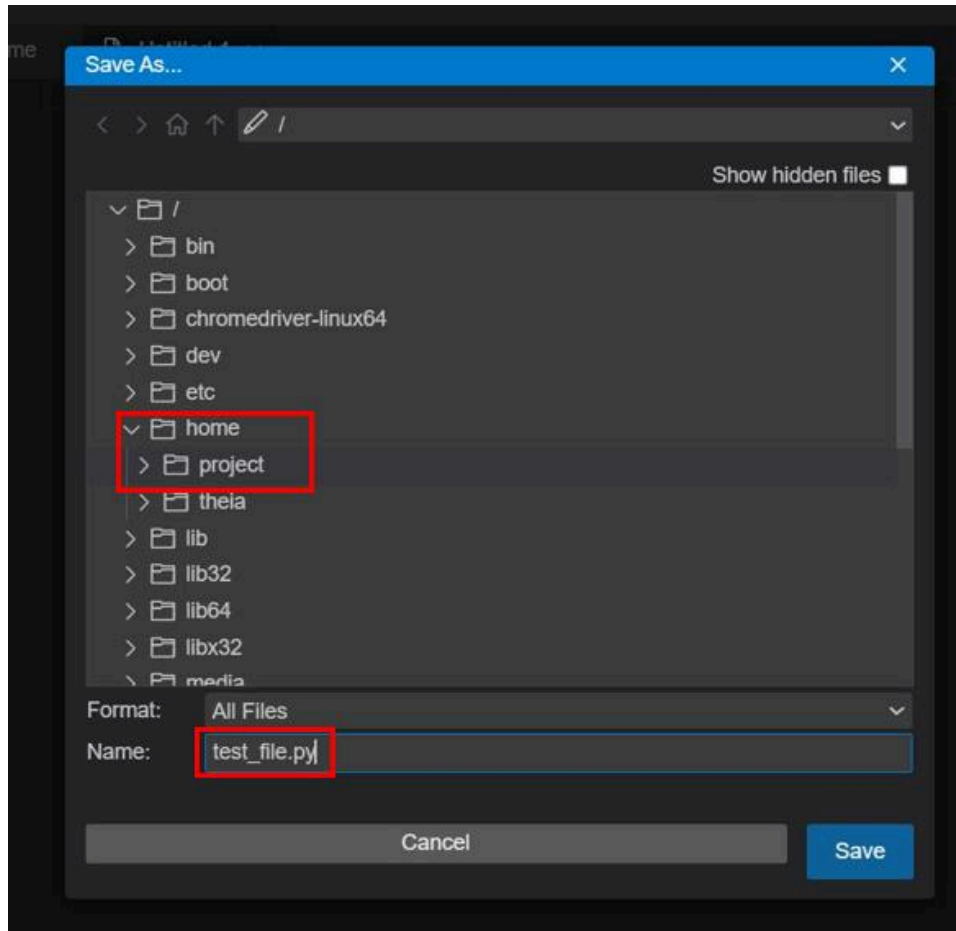
Go to the File tab in the menu and select New File as shown in the following image.



In the pop-up that displays, select New Text File as shown in the image.



You now have an `Untitled-1` text file open. You should save this file using `Ctrl+S` or the `Save` option from the `File` menu. Save the file with the name `test_file.py`. Make sure that the location of the file is in `/home/project/` as shown in the image below.



Step 2: Edit the code

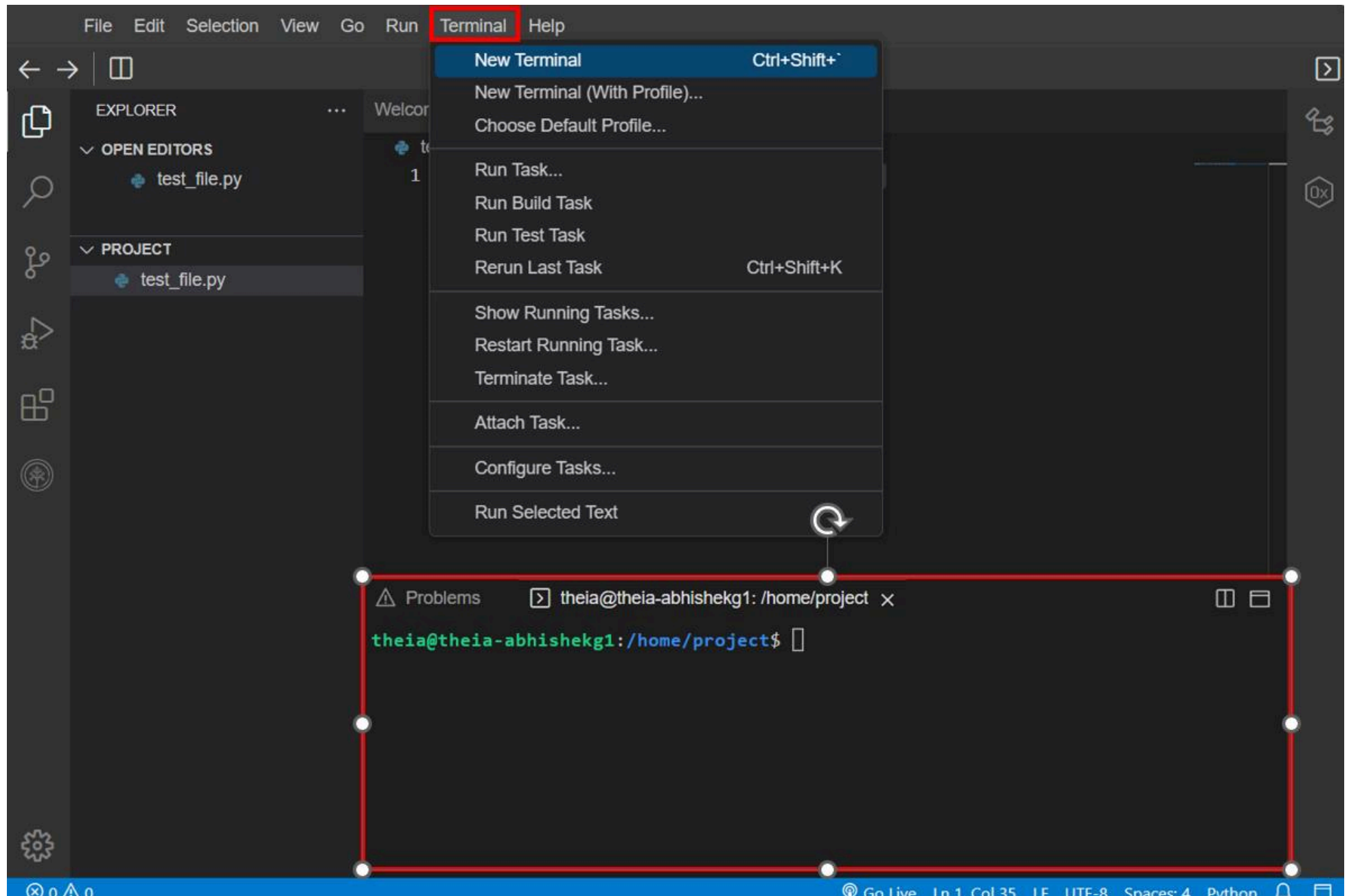
You can add code to this Python file using a simple print command. Add the following line to the file.

```
print("This is the testing environment.")
```

Make sure to save your file using **Ctrl+S** every time you edit it.

Step 3: Set up the terminal

You can now open a New Terminal from the Terminal tab in the interface menu. You should see a terminal opened below the file. Ensure that the terminal's current folder is `/home/project`.

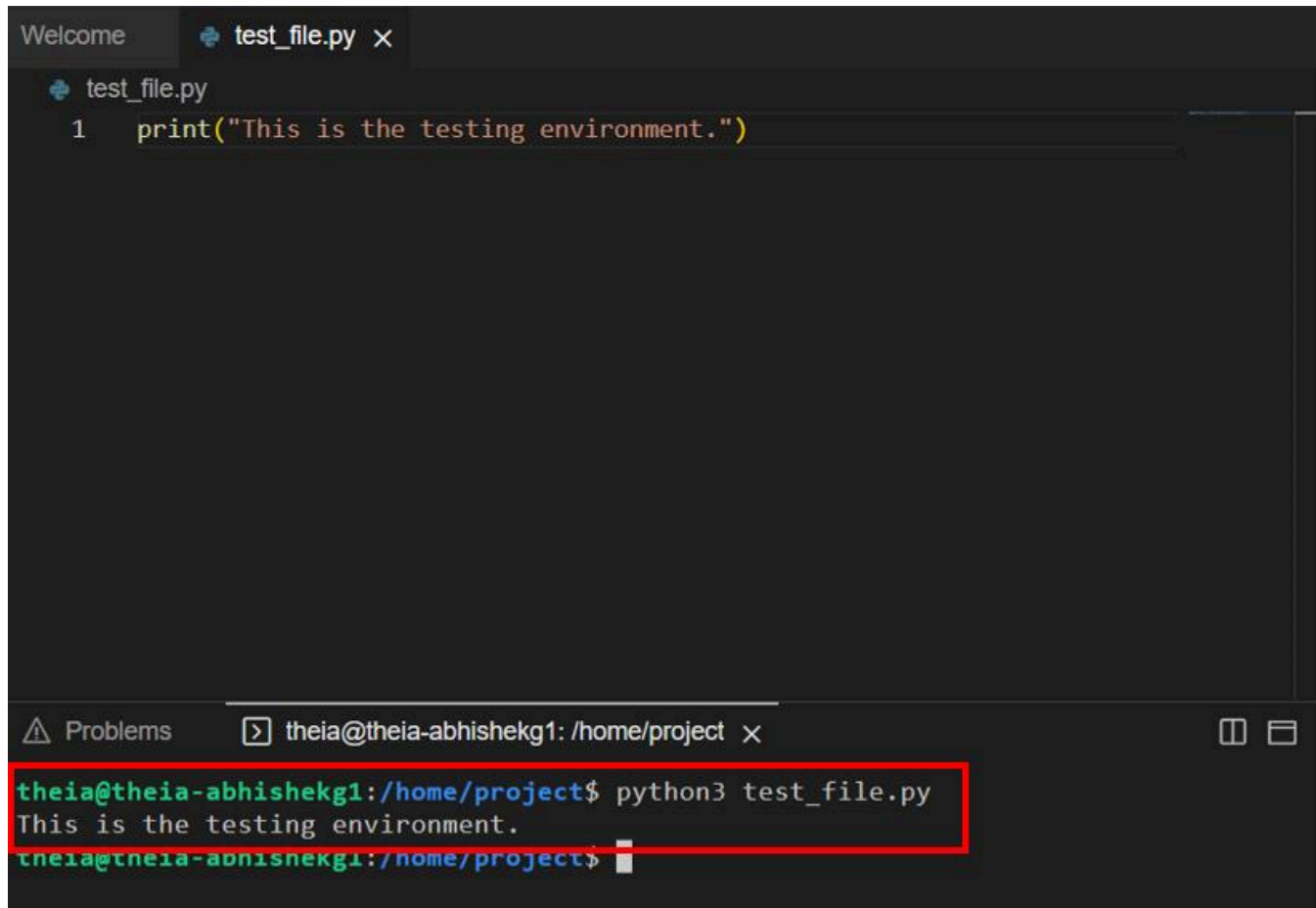


Step 4: Execute the code

You can run this script using the following command on the terminal.

```
python3 test_file.py
```

The code will be executed, and you should be able to see the output of your code.



The screenshot shows a JupyterLab environment. At the top, there's a tab labeled 'test_file.py' with a close button. Below it, the code editor displays a single line of Python code: `print("This is the testing environment.")`. At the bottom, there's a terminal window with the title 'theia@theia-abhishekg1: /home/project'. The terminal shows the command `python3 test_file.py` being executed, followed by the output `This is the testing environment.`. The terminal text is highlighted with a red rectangle.

```
Welcome test_file.py x
test_file.py
1 print("This is the testing environment.")

Problems theia@theia-abhishekg1: /home/project x
theia@theia-abhishekg1:/home/project$ python3 test_file.py
This is the testing environment.
theia@theia-abhishekg1:/home/project$
```

Step 5: Install required libraries

Ensure you install all required libraries per the code's requirement. For example, if you are required to use pandas in your code, run the following line on the terminal to install the library.

```
python3 -m pip install pandas
```

Other libraries, that you may require in this course are numpy, scikit-learn and mlxtend. The commands to install them will respectively be

```
python3 -m pip install numpy
```

```
python3 -m pip install scikit-learn
```

```
python3 -m pip install mlxtend
```

```
python3 -m pip install seaborn
```

You are now ready to edit this file with the code from the Generative AI lab.

Author(s)

[Abhishek Gagneja](#)

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