

# Hands-on Lab: Testing Environment

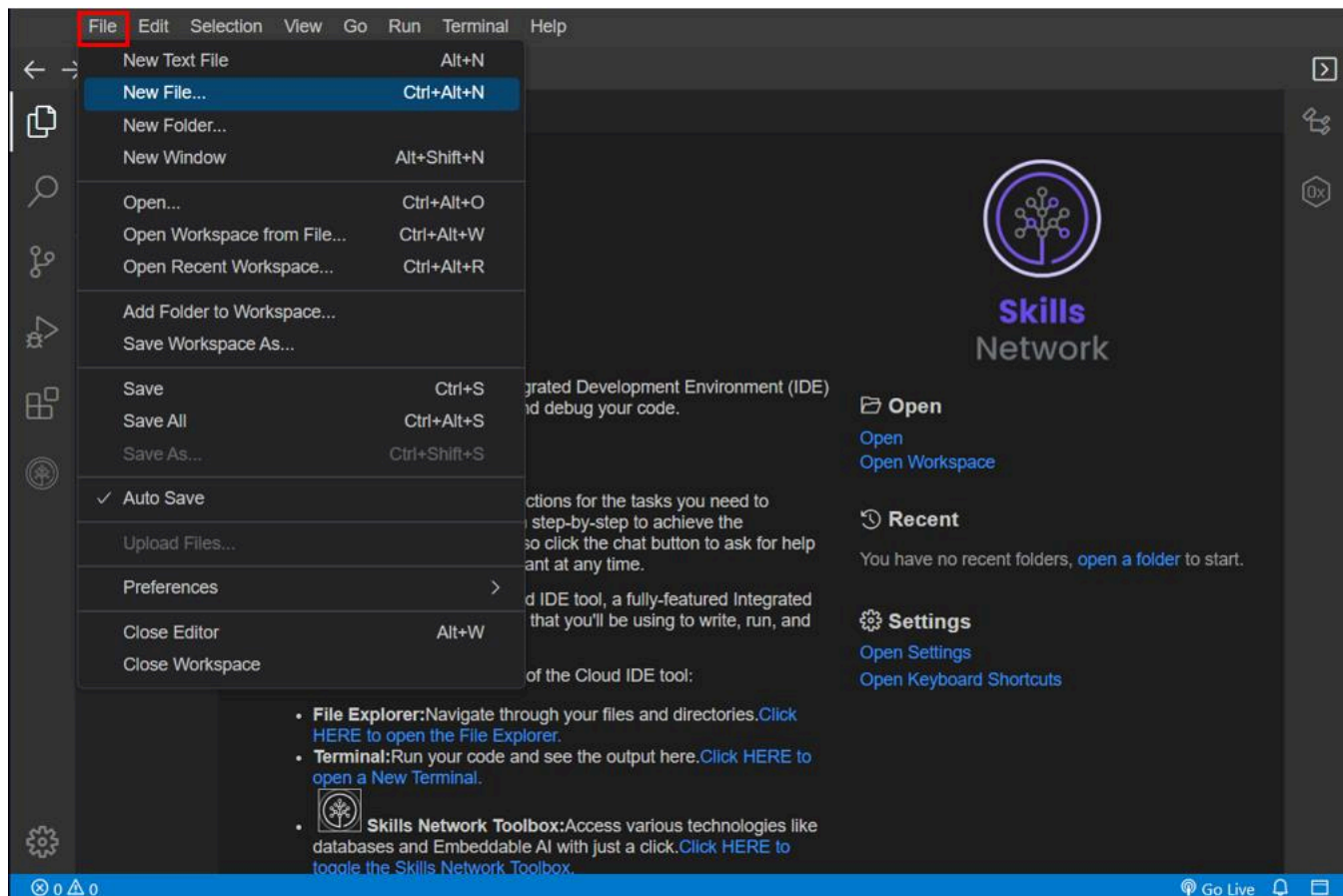
Welcome to your Cloud IDE-based testing environment!

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

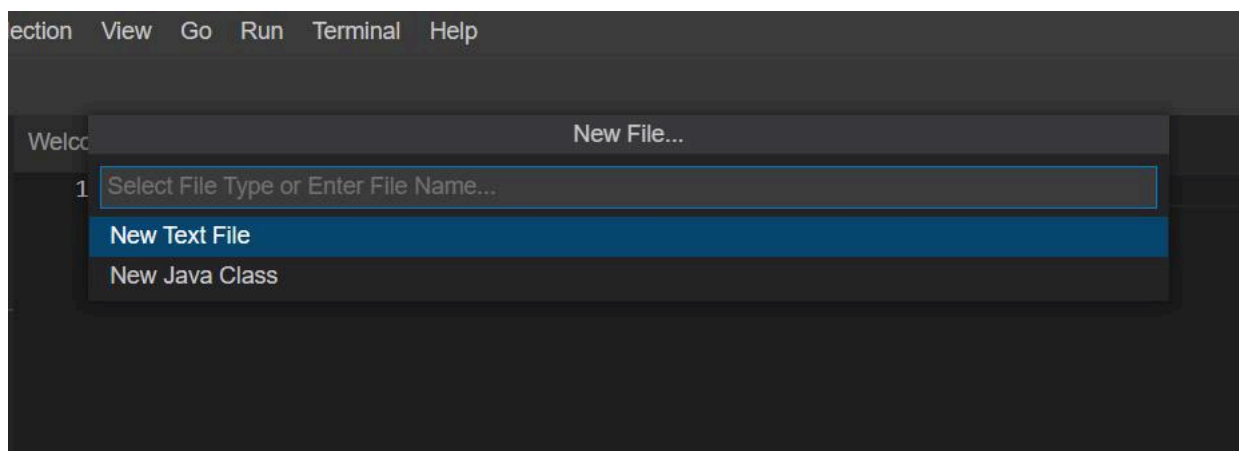
You may follow these steps to set up the environment.

## Step 1: Create the Python file

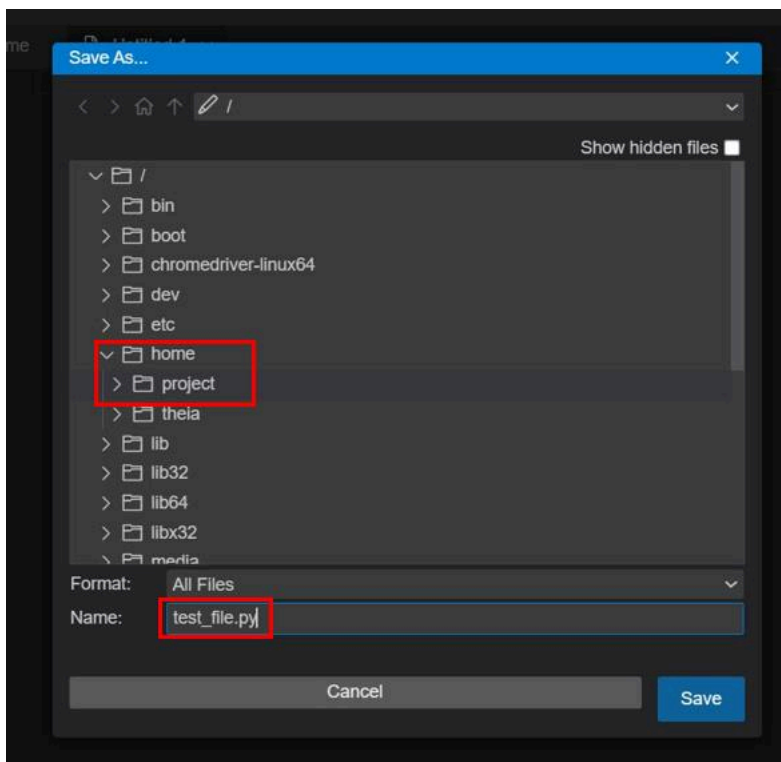
Go to the File tab in the menu and select New File as shown in the following image.



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

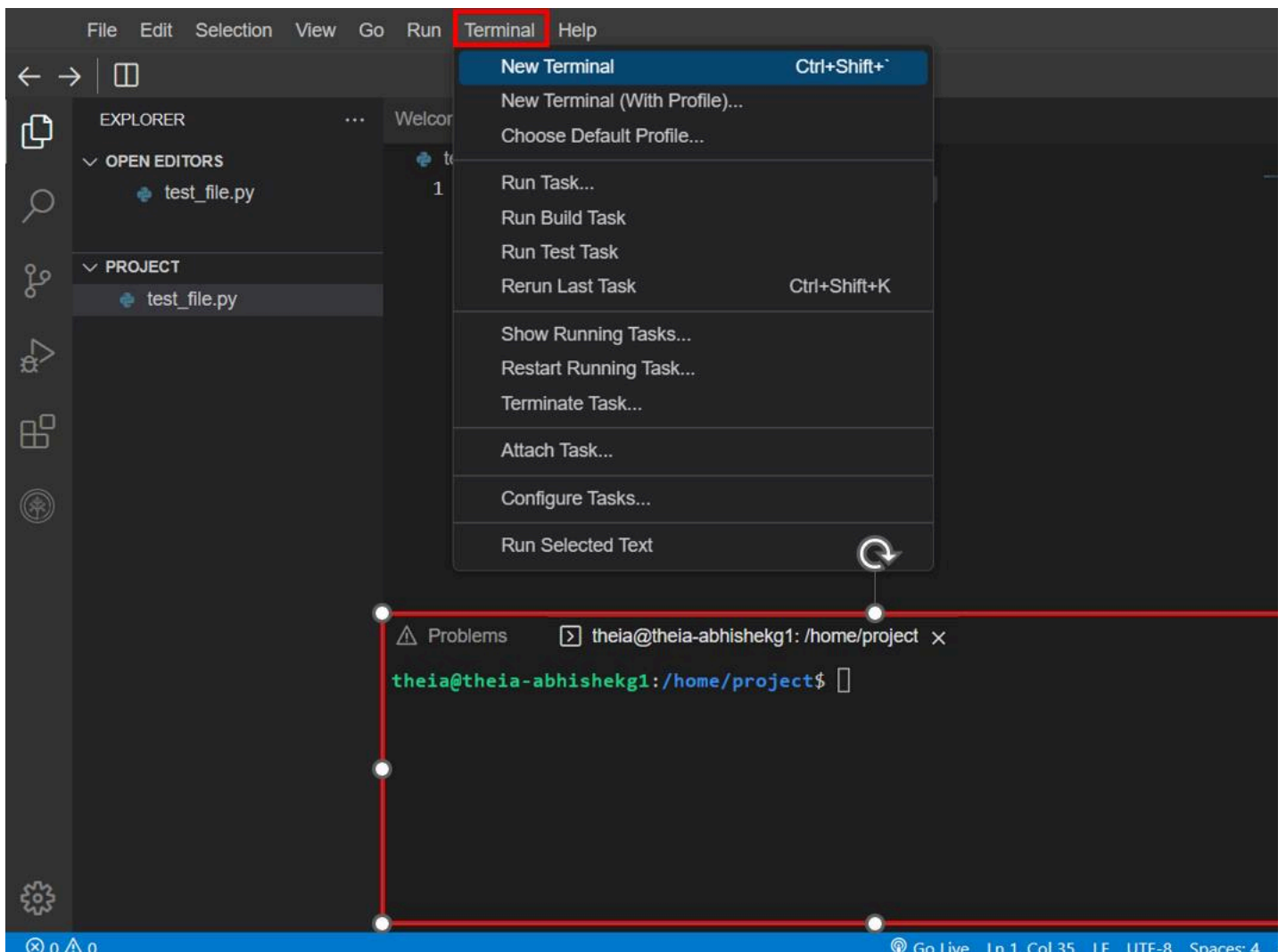
You can add code to this Python file using a simple print command. Add the following line to the file.

```
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`.

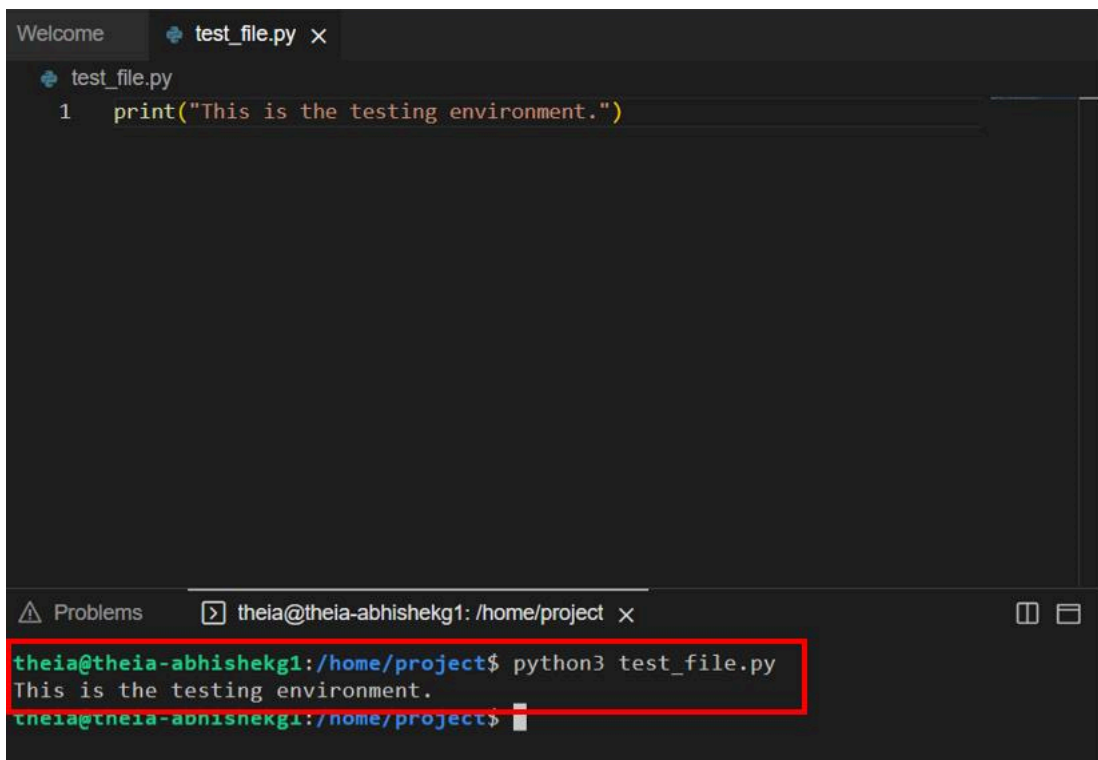


#### Step 4: Execute the code

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 for 'test\_file.py'. Below it, the code editor shows a single line of Python code: `print("This is the testing environment.")`. At the bottom, there's a terminal window. The terminal prompt is `theia@theia-abhishekg1:/home/project$`. The command `python3 test_file.py` has been executed, and the output `This is the testing environment.` is displayed. The terminal output and the command line are 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)**

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