

Hands-on Lab: Testing Environment

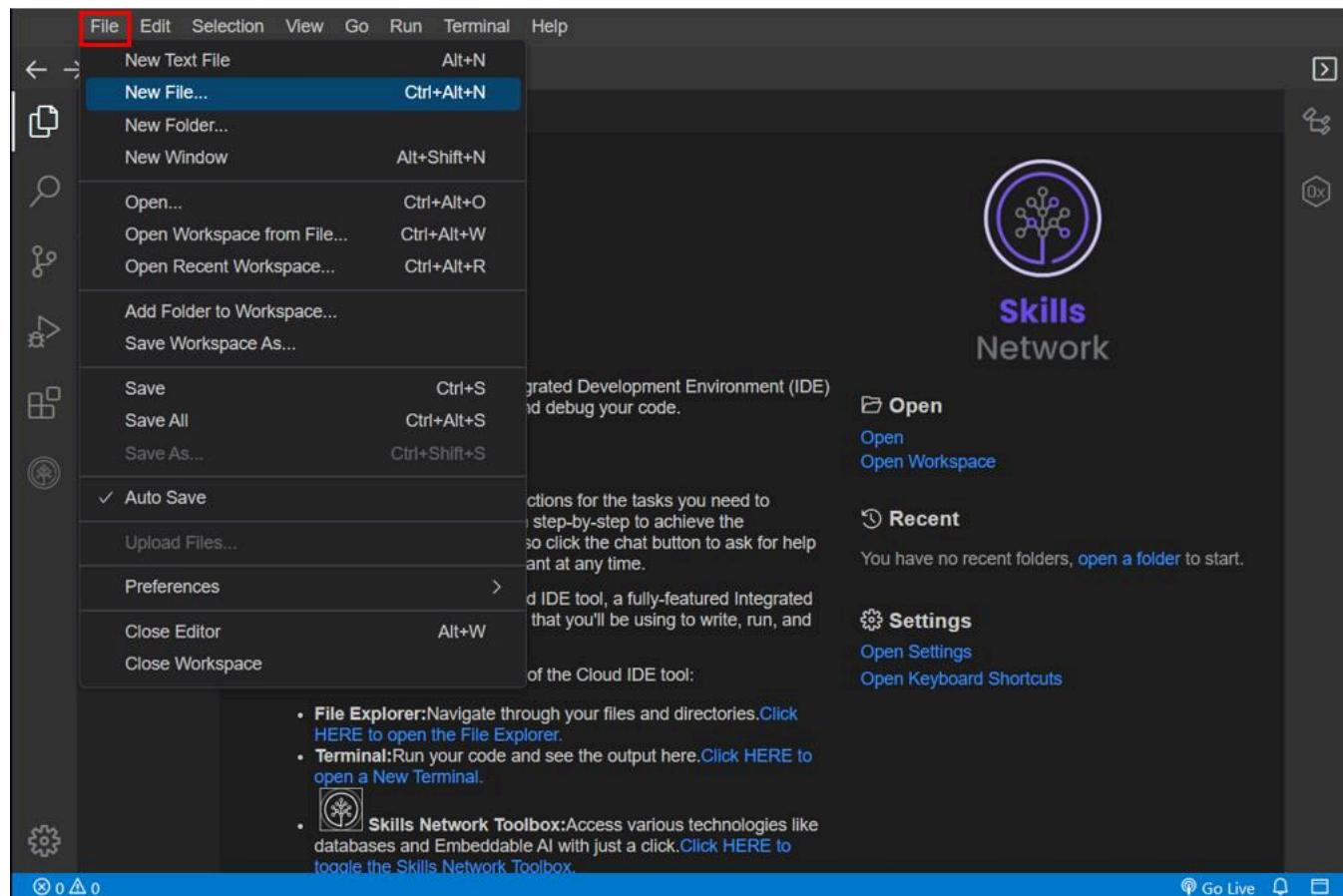
Welcome to your Cloud IDE-based testing environment!

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

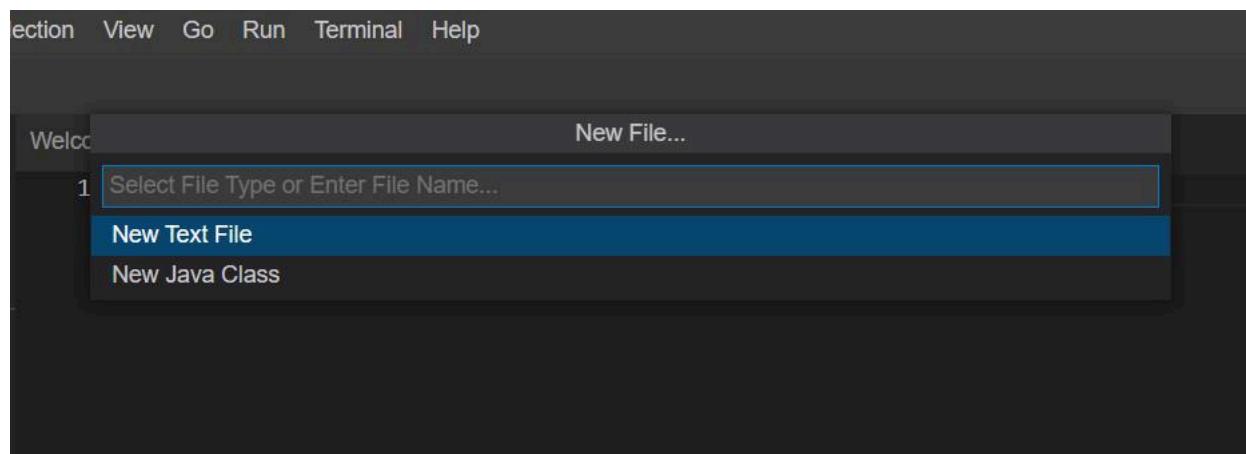
You may follow these steps to set up the environment.

Step 1: Create the Python file

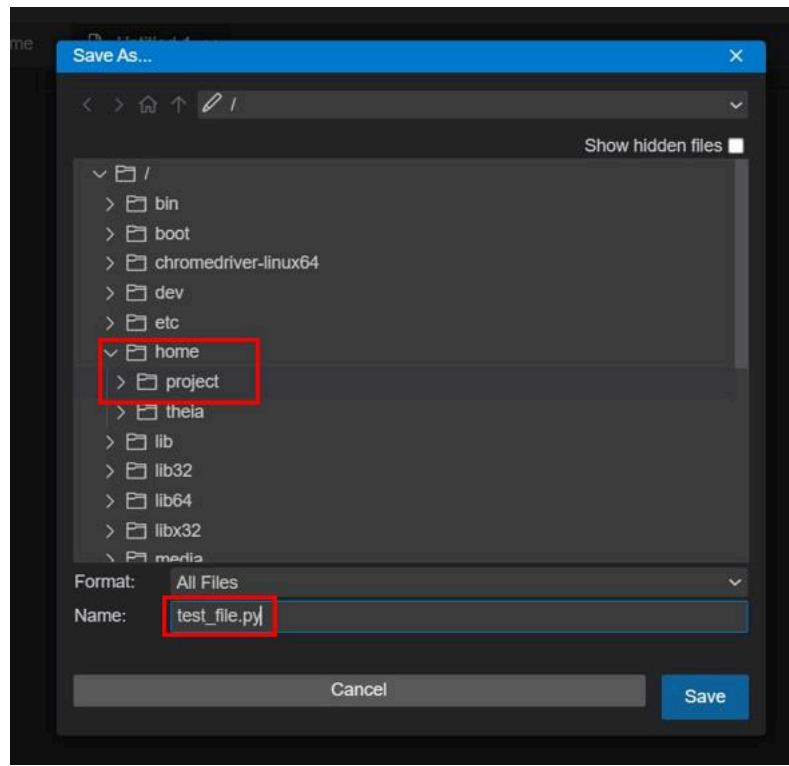
Go to the **File** tab in the menu and select **New File** as shown in the following image.



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

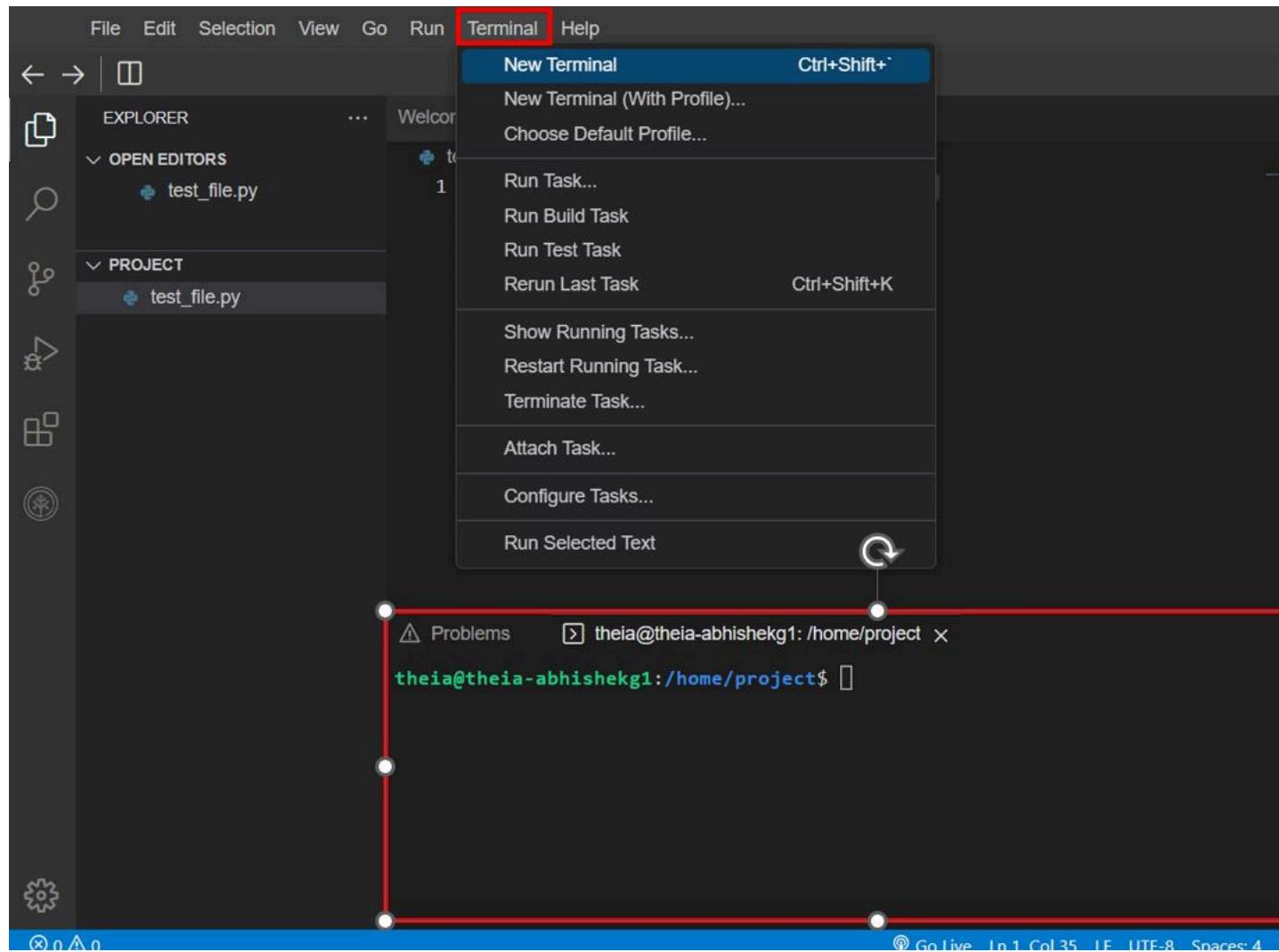
You can add code to this Python file using a simple print command. Add the following line to the file.

```
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.

```
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 terminal window with a dark theme. At the top, there are two tabs: "Welcome" and "test_file.py". The "test_file.py" tab is active, showing a single line of Python code: "print("This is the testing environment.")". Below the tabs is a text area containing terminal output. The output starts with the command "python3 test_file.py" followed by the printed text "This is the testing environment.". The entire output block is highlighted with a red rectangle.

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

△ Problems   theia@theia-abhishek1:/home/project ×
```

```
theia@theia-abhishek1:/home/project$ python3 test_file.py
This is the testing environment.
theia@theia-abhishek1:/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.

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