Name: Krushnakumar Patle

Email: krishnapatle128@gmail.com

Batch: Data Engineering Batch-1

Python Modules

A Python_module is a file containing Python definitions and statements. A module can define functions, classes, and variables. A module can also include runnable code.

Grouping related code into a module makes the code easier to understand and use. It also makes the code logically organized.

Create a Python Module

To create a Python module, write the desired code and save that in a file with .py extension. Let's understand it better with an example:

Example:

Let's create a simple calc.py in which we define two functions, one **add** and another **subtract**.

```
EXPLORER
                                                          😈 ru.html
                                                                           style.css
                                                                                            e placement.py

∨ PYTHON

                                          module > ὂ calc.py > ...
 > ii .cph
 > ii .pytest_cache
                                                 def add(x, y):
 > 📈 .vscode
                                                     return (x+y)
  > Assignment 2
     Assignment 3
                                            6 def subtract(x, y):
 > Assignment 4
                                                     return (x-y)
 > Assignment1
 > ii codes
 > ii coding challenge
 > Coding_challenge2_python-main
 > Ecom Project
 🗸 📹 module
  > 🖷 _pycache_
     ἢ calc.py
     e calci.py
```

Importing modules in Python Example

Now, we are importing the **calc** that we created earlier to perform add operation.

```
module > calci.py

1
2 import calc
3
4 print(calc.add(10, 2))
5

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

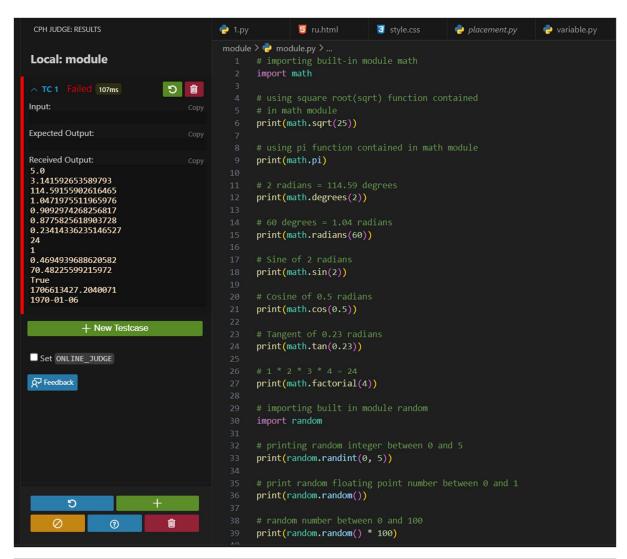
PS C:\Users\krish\OneDrive\Documents\Python> & C:/Python311/python.exe
12
PS C:\Users\krish\OneDrive\Documents\Python>
```

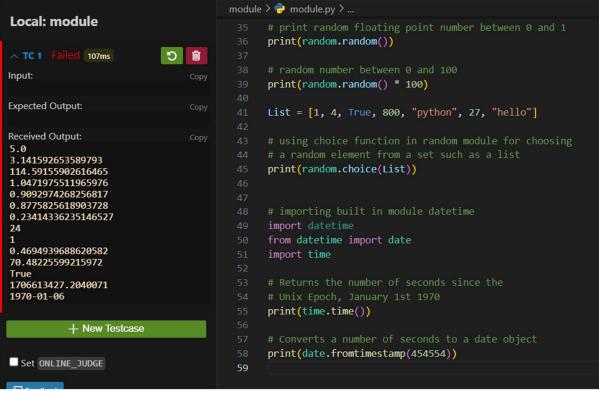
Python Import From Module

Python's from statement lets you import specific attributes from a module without importing the module as a whole.

Import Specific Attributes from a Python module

Here, we are importing specific sqrt and factorial attributes from the math module.





Day 8 Python module Assessment