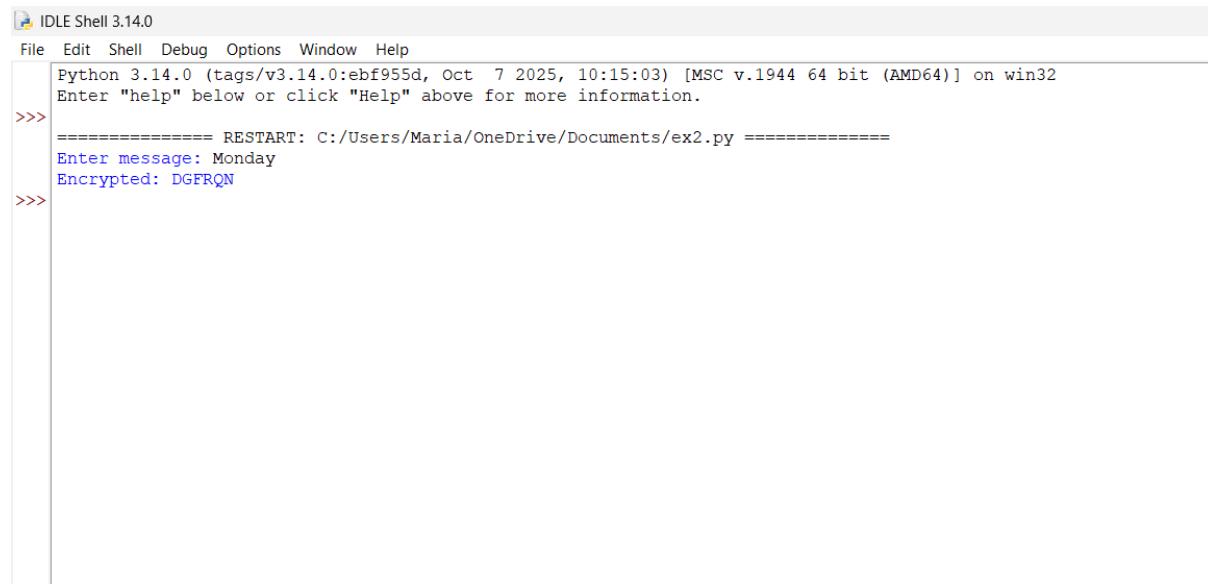


2. Write a C program for monoalphabetic substitution cipher maps a plaintext alphabet to a ciphertext alphabet, so that each letter of the plaintext alphabet maps to a single unique letter of the ciphertext alphabet.

Code:

```
plain_alphabet = "ABCDEFGHIJKLMNOPQRSTUVWXYZ"  
cipher_alphabet = "QWERTYUIOPASDFGHJKLZXCVBNM" # Example substitution  
  
def encrypt(text):  
  
    text = text.upper()  
  
    result = ""  
  
    for ch in text:  
  
        if ch.isalpha():  
  
            index = plain_alphabet.index(ch)  
  
            result += cipher_alphabet[index]  
  
        else:  
  
            result += ch  
  
    return result  
  
message = input("Enter message: ")  
  
print("Encrypted:", encrypt(message))
```



The screenshot shows the Python IDLE Shell interface. The title bar reads "IDLE Shell 3.14.0". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. A status bar at the bottom displays "Python 3.14.0 (tags/v3.14.0:ebf955d, Oct 7 2025, 10:15:03) [MSC v.1944 64 bit (AMD64)] on win32". The main window contains the following text:

```
>>> ===== RESTART: C:/Users/Maria/OneDrive/Documents/ex2.py =====  
Enter message: Monday  
Encrypted: DGFRQN  
>>>
```