

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]

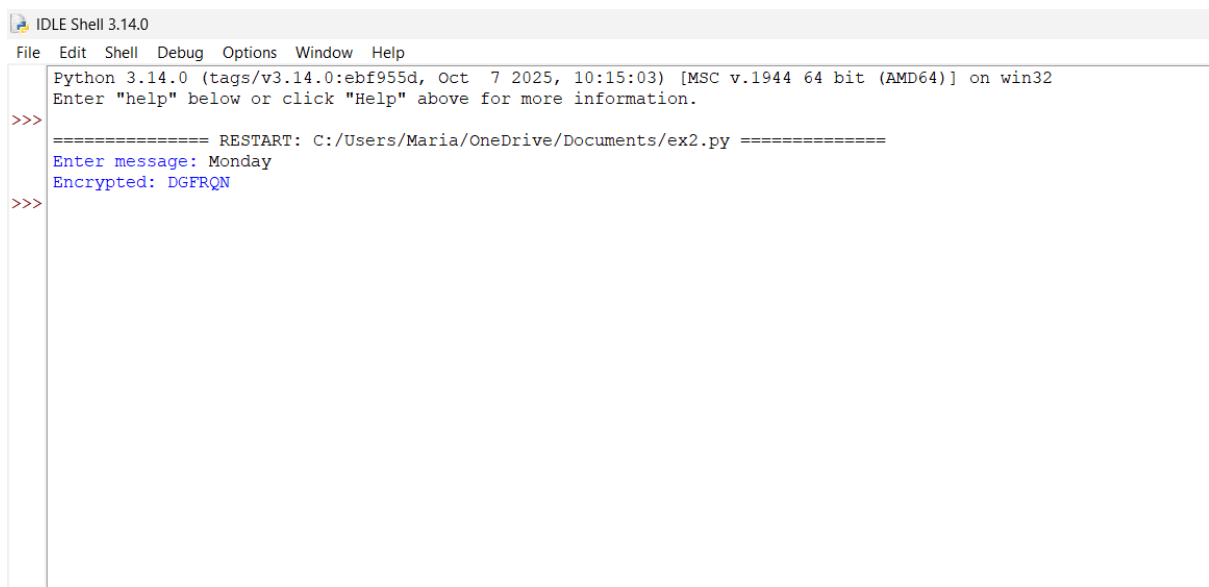
        else:

            result += ch

    return result

message = input("Enter message: ")

print("Encrypted:", encrypt(message))
```



```
IDLE Shell 3.14.0
File Edit Shell Debug Options Window Help
Python 3.14.0 (tags/v3.14.0:ebf955d, Oct 7 2025, 10:15:03) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
===== RESTART: C:/Users/Maria/OneDrive/Documents/ex2.py =====
Enter message: Monday
Encrypted: DGFRQN
>>>
```