

1. Write a python program for Caesar cipher involves replacing each letter of the alphabet with the letter standing k places further down the alphabet, for k in the range 1 through 25.

Code:

```
text = input("Enter text: ")

k = int(input("Enter shift value (1-25): "))

cipher = ""

for ch in text.upper():

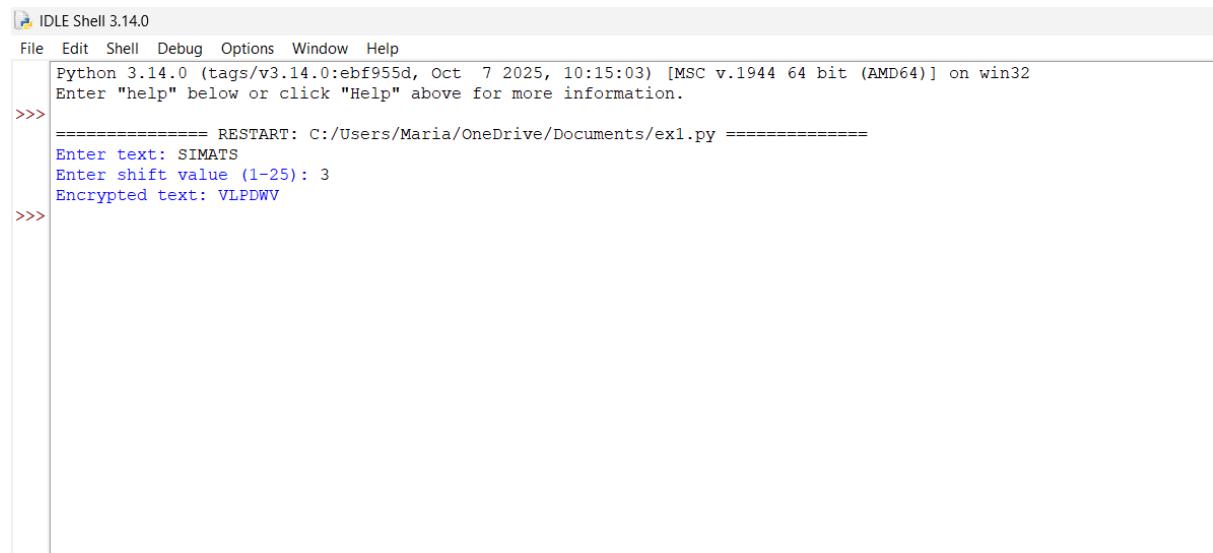
    if ch.isalpha():

        cipher += chr((ord(ch) - 65 + k) % 26 + 65)

    else:

        cipher += ch

print("Encrypted text:", cipher)
```



The screenshot shows the Python IDLE Shell interface. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main window displays the following session:

```
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/ex1.py =====
Enter text: SIMATS
Enter shift value (1-25): 3
Encrypted text: VLPDWV
>>>
```