



The screenshot shows a code editor window with a Python script named `infotech-task 1.py`. The script defines a function `caesar_cipher` that takes a message, shift value, and mode (either "encrypt" or "decrypt"). It iterates through each character of the message. If the character is alphabetic, it calculates its new position based on the shift and mode. Non-alphabetic characters remain unchanged. The main part of the script prompts the user for input and calls the function.

```
prodigy infotech-task 1.py
Practice > prodigy infotech-task 1.py > caesar_cipher
1 def caesar_cipher(message, shift, mode):
4     for char in message:
5         if char.isalpha():
6             base = ord('A') if char.isupper() else ord('a')
7
8             if mode == "encrypt":
9                 result += chr((ord(char) - base + shift) % 26 + base)
10            elif mode == "decrypt":
11                result += chr((ord(char) - base - shift) % 26 + base)
12            else:
13                result += char
14
15    return result
16
17
18 message = input("Enter the message: ")
19 shift = int(input("Enter the shift value: "))
20 mode = input("Enter encrypt or decrypt: ").lower()
...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\kalki Bhargav\OneDrive\Desktop\Practice> "C:/Users/kalki Bhargav/AppData/Local/Programs/Python/Python311/python.exe" "c:/Users/kalki Bhargav/OneDrive/Desktop/Practice/prodigy infotech-task 1.py"
Enter the message: cyber security
Enter the shift value: 2
Enter encrypt or decrypt: encrypt
Result: eadgt ugawtkva
PS C:\Users\kalki Bhargav\OneDrive\Desktop\Practice> 
```