def encrypt(text, shift):

encrypted\_text = ""

for char in text:

if char.isalpha():

shift\_amount = 65 if char.isupper() else 97

encrypted\_text += chr((ord(char) - shift\_amount + shift) % 26 + shift\_amount)

else:

encrypted\_text += char

return encrypted\_text

def decrypt(text, shift):

decrypted\_text = ""

for char in text:

if char.isalpha():

shift\_amount = 65 if char.isupper() else 97

decrypted\_text += chr((ord(char) - shift\_amount - shift) % 26 + shift\_amount)

else:

decrypted\_text += char

return decrypted\_text

def caesar\_cipher():

while True:

print("\nCaesar Cipher Menu")

print("1. Encrypt a message")

print("2. Decrypt a message")

print("3. Exit")

choice = input("Enter your choice: ")

if choice == '1':

text = input("Enter the message to encrypt: ")

shift = int(input("Enter the shift value: "))

encrypted\_message = encrypt(text, shift)

print(f"Encrypted Message: {encrypted\_message}")

elif choice == '2':

text = input("Enter the message to decrypt: ")

shift = int(input("Enter the shift value: "))

decrypted\_message = decrypt(text, shift)

print(f"Decrypted Message: {decrypted\_message}")

elif choice == '3':

print("Exiting the program.")

break

else:

print("Invalid choice! Please try again.")

if \_\_name\_\_ == "\_\_main\_\_":

caesar\_cipher()