**CODE:**

def encrypt(text, shift):

encrypted\_text = ""

for char in text:

if char.isalpha():

shift\_base = ord('A') if char.isupper() else ord('a')

encrypted\_char = chr((ord(char) - shift\_base + shift) % 26 + shift\_base)

encrypted\_text += encrypted\_char

else:

encrypted\_text += char

return encrypted\_text

def decrypt(text, shift):

decrypted\_text = ""

for char in text:

if char.isalpha():

shift\_base = ord('A') if char.isupper() else ord('a')

decrypted\_char = chr((ord(char) - shift\_base - shift) % 26 + shift\_base)

decrypted\_text += decrypted\_char

else:

decrypted\_text += char

return decrypted\_text

def main():

print("Caesar Cipher Encryption/Decryption")

choice = input("Type 'encrypt' to encrypt a message, or 'decrypt' to decrypt a message: ").lower()

text = input("Enter your message: ")

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

if choice == 'encrypt':

encrypted\_message = encrypt(text, shift)

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

elif choice == 'decrypt':

decrypted\_message = decrypt(text, shift)

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

else:

print("Invalid choice! Please type 'encrypt' or 'decrypt'.")

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

main()