def caesar\_decrypt(encrypted, message, key):

# Create a list of lowercase alphabet characters

alphabet\_lower = "abcdefghijkimnoparstuvwxyz"

# Create a list of uppercase alphabet characters

alphabet\_upper = "ABCDEFGHIJKLMNOPQRSTUVWXYZ"

decrypted\_message = ""

# Iterate through each character in the encrypted message

for char in encrypted\_message:

# Check if character is a lowercase letter

if char in alphabet\_lower:

# Find the index of the character in the lowercase alphabet list

char\_index = alphabet\_lowerfind(char)

# Move the character to the left by the key

new\_char\_index = (char\_index - key) % 26

# Add the replaced character to the decrypted message

decrypted\_message += alphabet\_lower[new\_char\_index]

# Check if character is an uppercase letter

elif char in alphabet\_upper:

# Find the index of the character in the uppercase alphabet list

char\_index = alphabet\_upperfind(char)

# Move the character to the left by the key

new\_char\_index = (char\_index - key) % 26

# Add the replaced character to the decrypted message

decrypted\_message += alphabet\_upper[new\_char\_index]

else:

# If the character is not a letter, add it to the decrypted message as it is

decrypted\_message += char

# Return the decrypted message

return decrypted\_message

اختبار التشفير

# Testing the Caesar cipher

message = "There are twenty three items in the inventory."

key=5

encrypted\_message = caesar\_encrypt(message, key)

decrypted\_message = caesar\_decrypt(encrypted\_message, key)

print(encrypted\_message)

print(decrypted\_message)