**1. Count the number of upper and lower case letters in a string**

text = input("Enter a string: ")

upper = 0

lower = 0

for char in text:

if char.isupper():

upper += 1

elif char.islower():

lower += 1

print("Uppercase letters:", upper)

print("Lowercase letters:", lower)

**2. Check whether a given string is palindrome or not**

s = input("Enter a string: ")

if s == s[::-1]:

print("Palindrome")

else:

print("Not a palindrome")

**3. Return a new string made of n copies of the first 2 characters, where n is the length of the string**

s = input("Enter a string: ")

if len(s) >= 2:

front = s[:2]

result = front \* len(s)

print(result)

else:

print("String length must be greater than 2")

**4. Remove 'x' if it appears as first or last character in the string**

s = input("Enter a string: ")

if s.startswith('x'):

s = s[1:]

if s.endswith('x'):

s = s[:-1]

print("Updated string:", s)

**5. Return a string made of n repetitions of the last n characters of the string**

s = input("Enter a string: ")

n = int(input("Enter a number: "))

if 0 <= n <= len(s):

result = s[-n:] \* n

print(result)

else:

print("Invalid input for n")