## Q1. Take a user input string and print its length.

In [1]:
```
Name = input("Enter Name: ")
print(len(Name))
```

```
11
```

## Q2. Count the number of vowels in a string.

In [4]:
```
name = "Data Science with Python"
vowel = "AEIOUaeiou"
count = 0
for char in name:
    # print(char)
    if char in vowel:
        count +=1

print(f"Number of Vowel {count}")
```

```
Number of Vowel 7
```

## Q3. Check if a string is a palindrome.

In [11]:
```
name = input("Enter the Name Please: ")
# print(name[::-1])
if name == name[::-1]:
    print("Palindrome")

else:
    print("Not a Palindrome")
```

```
Not a Palindrome
```

## Q4. Convert a string to uppercase and lowercase.

In [10]:
```
Program = "Python Programming"
print(f"Upper: {Program.upper()}")
print(f"Lower: {Program.lower()}")
```

```
Upper: PYTHON PROGRAMMING
Lower: python programming
```

## Q5. Replace all spaces in a string with hyphens (-).

In [12]:
```
text = "Learn Python Programming"
new_txt = text.replace(" ", "-")
print(f"After Modify Text: {new_txt}")
```

```
After Modify Text: Learn-Python-Programming
```

## Q6. Count the number of times a character appears in a string.

In [13]:
```
text = "hihihhitmi"
char = "i"
count = text.count(char)
print(f"{char} appears {count} time")
```

```
i appears 4 time
```

## Q7. Split a string into a list using a delimiter.

In [15]:
```
fruit = "Mango,Banana,Apple,Grapes"
print(f"Fruit List: {fruit.split(",")}")
```

```
Fruit List: ['Mango', 'Banana', 'Apple', 'Grapes']
```

## Q8. Join a list of words into a single string using space

In [17]:
```
Course = ["Data", "Science", "with", "Python"]
print(f"Sentence: {" ".join(Course)}")
```

```
Sentence: Data Science with Python
```

## Q9. Check whether a string contains only alphabets.

In [22]:
```
name = input("Enter the Name: ")
if name.isalpha():
    print("String Contains Only alphabet")

else:
    print("String Contains non-alphabet")
```

```
String Contains non-alphabet
```

## Q10. Check if a string starts and ends with the same character.

In [24]:
```
String = input("Enter the String: ")
if String[0]==String[-1]:
    print("String starts and ends with the same character.")

else:
    print("String doesn't starts and ends with the same character.")
```

```
String doesn't starts and ends with the same character.
```

## Q11. Swap the case of all characters in a string.

In [25]:
```
Name = input("Enter the Name: ")
print(f"Swapped Case String: {Name.swapcase()}")
```

```
Swapped Case String: LEARN PYTHON
```

## Q12. Reverse the words in a sentence.

In [34]:
```
sentence = "Learn Python Program"
words = sentence.split()
reversed_sentence = " ".join(reversed(words))
print("Reversed sentence:", reversed_sentence)
```

```
Reversed sentence: Program Python Learn
```

## Q13. Find the longest word in a sentence.

In [35]:
```
name = input("Enter the Sentence: ")
words = name.split()
longest_sen = max(words, key = len)
print(f"Logest Words is: {longest_sen}")
```

```
Logest Words is: Programming
```

## Q14. Count the number of uppercase and lowercase characters.

In [41]:
```
sen = input("Enter the Sentence Please")
uper = sum(1 for char in sen if char.isupper())
lower = sum(1 for char in sen if char.islower())
print(f"Upper Character {uper}")
print(f"Lower Character {lower}")
```

```
Upper Character 2
Lower Character 16
```

In [ ]:
```

```