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Day 9: String Methods

1. Write a Python program to Count all letters, digits, and special symbols from the given string

Input = "P@#yn26at^&i5ve"

Output: Chars = 8 Digits = 3 Symbol = 4

```
# 1. Write a Python program to Count all letters, digits, and special
symbols from the given string
inx = "P@#yn26at^&i5ve" #input string
letter_count = 0
digit_count = 0
special_chr_count = 0
for all in inx: #iterate through the given string
    if all.isalpha():    #Check if string contains alphabetical characters.
        letter_count+= 1
    elif all.isdigit():  #Checks if string contains numeric characters.
        digit_count+=1

    else:
        count_spchar = inx.count(all) #checks special characters
        special_chr_count+=1

print(f"Characters= {letter_count}") #prints count of alphabets
print(f"Digits= {digit_count}")  #prints count of numbers
print(f"Special characters= {special_chr_count}")  #prints count of special
characters
# Output: Chars = 8 Digits = 2 Symbol = 3
```

2. Write a Python program to remove duplicate characters of a given string.

Input = “String and String Function”

Output: String and Function

```
# Input
inputx = "String and String Function"   #Take input sentence from user
result = ""
seen = [] #create an empty list to add our result

for chr in inputx:
    if chr not in seen:  # Add the character to result only if it's not
already seen
        seen.append(chr)
        result += chr

print("String without duplicates:", result) #shows the sentence without
duplicates
```

3. Write a Python program to count Uppercase, Lowercase, special characters and numeric values in a given string

Input = “Hell0 W0rld ! 123 * # welcome to pYtHoN”

Output: UpperCase : 5 LowerCase : 18 NumberCase : 5 SpecialCase : 11

```
# Input
iox = "Hell0 W0rld ! 123 * # welcome to pYtHoN"
is_upper= 0
is_lower = 0
is_digit = 0
is_spechr = 0
for c in iox:
    if c.isupper():    #Check if the string Has Capital characters.
        is_upper += 1

    elif c.islower():  #Check if the string contains Small letters.
        is_lower+=1

    elif c.isdigit():  #Check if the string contains numeric characters.
        is_digit+=1

    else:
        is_spechr+=1
print(f"INPUT is : {iox}")       #shows input string
print("Uppercase:",is_upper)     #prints count of Uppercase letters.
print("Lowercase:",is_lower)     #prints count of Lowecase letters.
print("Digits:",is_digit)        #prints count of numeric letters.
print("Special Characters:",is_spechr)     #prints count of special letters.
```

4. Write a Python Count vowels in a string

input= “Welcome to Python Assignment”

Output: Total vowels are: 8

```
# input
stringz = "Welcome to Python Assignment"
v = ['A','E','I','O','U','a','e','i','o','u']  #variable v stores the vowels as elements in list.
v_count=0
for vowels in stringz:
    if vowels in v:
        v_count+=1
print(f"Count of Vowels in stringz are: {v_count}")
```

Output: