Python Programming Lab Assignment – 9 String Methods

Assignments Questions:

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

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

Input = "String and String Function"

Output: String and Function

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

Input = "Hell0 W0rld! 123 * # welcome to pYtHoN"

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

4. Write a Python Count vowels in a string

input= "Welcome to Python Assignment"

Output: Total vowels are: 8

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 Sol: string = "P@#yn26at^&i5ve" char = sum(c.isalpha() for c in string) digit = sum(c.isdigit() for c in string) symbol = len(string) - char - digit print(f"chars = {char} Digits = {digit} Symbol = {symbol}") 2. Write a Python program to remove duplicate characters of a given string. Input = "String and String Function" **Output: String and Function** Sol: string = "String and String Function" output = ".join(dict.fromkeys(string)) print(output)

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3. Write a Python program to count Uppercase, Lowercase, special
character and numeric values in a given string
Input = "Hell0 W0rld! 123 * # welcome to pYtHoN"
Output: UpperCase: 5 LowerCase: 18 NumberCase: 5 SpecialCase:
11
Sol:
string = "HellO WOrld! 123 * # welcome to pYtHoN"
uppercase = sum(1 for char in string if char.isupper())
lowercase = sum(1 for char in string if char.islower())
numberic = sum(1 for char in string if char.isdigit())
special = sum(1 for char in string if not char.isalnum() and not
char.isspace())
print("Lowercase letter = ",uppercase)
print("Uppercase Letter = ",lowercase)
print("Numeric values = ", numberic)
print("Special Character = ",special)
```

4. Write a Python Count vowels in a string input= "Welcome to Python Assignment"
Output: Total vowels are: 8
Sol:

string = "Welcome to Python As Assignment"
vowelCount = 0
vowels = "aeioAEIOU"
for char in string:
 if char in vowels:
 vowelCount +=1
print("The total vowels in the given string are = ",vowelCount)