

Assignment Questions-[26-6-2020](#)

1. Given an input string, count occurrences of all characters within a string.

```
Ans: str = input("Enter a string :")
      char = input("Enter a char :")
      count = 0
      for i in range(len(str)):
          if(str[i] == char):
              count += 1
      print("The total number of times ", char, " has
occured = ", count)
```

2. Given a string, return the sum and average of the digits that appear in the string, ignoring all other characters.

```
ans: def findSum(str1):
    temp = ""
    Sum = 0
    for ch in str1:
        if (ch.isdigit()):
            temp += ch
        else:
            Sum += int(temp)
            temp = "0"
    return Sum + int(temp)
str1 = input("Enter a string :")
print(findSum(str1))
```

3. Given a string input Count all lower case, upper case, digits, and special symbols.

```
ans: def count(s):  
    upper, lower, digits, special = 0, 0, 0, 0  
    for i in range(len(s)):  
        if s[i].isupper():  
            upper += 1  
        elif s[i].islower():  
            lower += 1  
        elif s[i].isdigit():  
            digits += 1  
        else:  
            special += 1  
    print("Uppercase letter :", upper)  
    print("Lowercase letter :", lower)  
    print("Digits :", digits)  
    print("Special characters :", special)  
    s = input("Enter a string :")  
    count(s)
```

4. Arrange String characters such that lowercase letters should come first.

```
ans: m = input("Enter a string : ")  
print("Original String :", m)  
words = m.split()  
lower = []  
upper = []  
for char in m:  
    if char.islower():  
        lower.append(char)  
    else:  
        upper.append(char)  
sortedStr = "".join(lower + upper)  
print("After arranging :", sortedStr)
```

5. Given 2 strings, s1 and s2, create a new string by appending s2 in the middle of s1.

```
ans: def appendMiddle(s1,s2):  
    middleIndex=int(len(s1)/2)  
    print("Original Strings are :",s1,s2)  
    middleThree=s1[:middleIndex-1]+s2+s1[middleIndex-1:]  
    print("After appending :",middleThree)  
    s1=input(">")  
    s2=input(">")  
    appendMiddle(s1,s2)
```