**Assignment3\_Group A**

"""

Write a python program to compute following operations on String: a)To display word with the longest length

1. To determines the frequency of occurrence of particular character in the string
2. To count the occurrences of each word in a given string
3. To check whether given string is palindrome or not
4. To display index of first appearance of the substring

"""

#To display word with the longest length

str1=input("Enter the string To display word with the longest length: \n") # svpm coe malegaon

list1=str1.split() m=0

word=0

print(list1) #['svpm', 'coe', 'malegaon'] for i in range(len(list1)):

if m<len(list1[i]):

m=len(list1[i]) word=i

print("The word with longest length:- ",list1[word]) # The word with longest length:- malegaon

# To determines the frequency of occurrence of particular character in the string

str1 = input("Enter the string to count frequency of occurrence of particular character: \n") # india

char = input("Enter character:- ") # i

counter = 0

for i in range(len(str1)):

if char == str1[i]:

counter += 1

print("Character ",char," is present ",counter," times in string ",str1)

# To count the occurrences of each word in a given string

str1 = input("Enter input string To count the occurrences of each word: \n") # Ram is good , Ram is intelligent

list1 = str1.split()

#['Ram', 'is', 'good', ',', 'Ram', 'is', 'intelligent'] list2 = set(list1)

list3 = list(list2)

#['good', ',', 'intelligent', 'is', 'Ram'] print(list1)

print(list3)

list4 = [] list5 = [] counter = 0

for i in range(len(list3)): ['good', ',', 'intelligent', 'is', 'Ram'] #single element counter = 0

for j in range(len(list1)): #['Ram', 'is', 'good', ',', 'Ram', 'is', 'intelligent'] # all element

if list3[i] == list1[j]:

counter += 1 list4 = list3[i], counter list5.append(list4)

print("\n", list5)

#[('good', 1), (',', 1), ('intelligent', 1), ('is', 2), ('Ram', 2)]

# To check whether given string is palindrome or not a = input("Enter string is palindrome or not: \n") c=a[ : :-1] #reverse

if (c==a):

print("string a is palindrome") else:

print("string a is not palindrome")

# To display index of first appearance of the substring

str1 = input("Enter the string To display index of first appearance of the substring:- \n") sub1 = input("Enter substring:- \n")

index=str1.find(sub1) sublen = len(sub1)

print("substring index :", index)

"""

**Output**

1. Enter the string To display word with the longest length svpm coe malegaon

['svpm', 'coe', 'malegaon']

The word with longest length:- malegaon

1. Enter the string to count frequency of occurrence of particular character banana

Enter character:- a

Character a is present 3 times in string banana

1. Enter input string To count the occurrences of each word Ram is good , Ram is intelligent

['Ram', 'is', 'good', ',', 'Ram', 'is', 'intelligent']

['good', ',', 'intelligent', 'is', 'Ram']

[('good', 1), (',', 1), ('intelligent', 1), ('is', 2), ('Ram', 2)]

1. Enter stringis palindrome or not nitin

It is palindrome

1. Enter the string To display index of first appearance of the substring:- Ram is good boy

Enter substring:- is

substring index : 4

"""