Assignment3_Group A

"""

Write a python program to compute following operations on String:

a)To display word with the longest length

b)To determines the frequency of occurrence of particular character in the string

c)To count the occurrences of each word in a given string

d)To check whether given string is palindrome or not

e)To display index of first appearance of the substring

"""

```python
#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
```

```python
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)
```

```python
# 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
```

```python
        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

a)Enter the string To display word with the longest length

svpm coe malegaon

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

The word with longest length:- malegaon

b)Enter the string to count frequency of occurrence of particular character

banana

Enter character:- a

Character a is present 3 times in string banana

c)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)]

d)Enter stringis palindrome or not

nitin

 It is palindrome

e)Enter the string To display index of first appearance of the substring:-

Ram is good boy

Enter substring:-

is

substring index : 4

"""