**Zeal College of Engineering and Research**

**Subject: DSL**

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**Group A: Practical No: 02**

**Program Statement**:

Write a Python program to compute following operations on String:

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

**Code:**

#Pratical 2

sentence=input("\nEnter the string: ")

longest=max(sentence.split(),key=len)

print("\nWord with longest length is :",longest)

print("\nlongest word length is :",len(longest))

all\_freq={}

for i in sentence:

if i in all\_freq:

all\_freq[i]+=1

else:

all\_freq[i]=1

print ("\nfrequency count of each chracter is :",all\_freq)

c=input("\n\nenter the character to count its occurence frequency :")

count=0

if (i in sentence):

for i in sentence:

if(i==c):

count+=1

print ("\nfrequency count of ",c," chracter is :",count)

rev=reversed(sentence)

if list(sentence)==list(rev):

print("\nstring is palindrom")

senten=sentence.split()

sub=input("\nenter the subdtring : ")

if(senten==-1):

print("substring is not present.")

else:

print("substring found at position :",sentence.find(sub))

**Output (Screenshot):**

