**Expt.no.:6**

**Date:01/02/23 PROGRAMS ON STRINGS**

1. **CHECKING PALINDROMIC STRING**

**ALGORITHM:**

Step 1: Start

Step 2: Define a function for palindrome(n) and proceed to 2.1

2.1: set rev=n[::-1]

2.2: if n is equal to rev proceed to 2.2.1, else go to step 2.3

2.2.1: print “palindrome”

2.3:print ”not palindrome”

Step 3: Read name from the user

Step 4: Call function from step 2 palindrome(name)

Step 5: Stop

**PROGRAM:**

def palindrome(n):

rev = n[::-1]

if(n==rev):

print("Palindrome")

else:

print("Not palindrome")

name=input("Enter a name: ")

palindrome(name)

**OUTPUT:**

Enter a name: Malayalam

Palindrome

**2.REVERSING A STRING**

**ALGORITHM:**

Step 1: Start

Step 2: Define a function for reverse(n) and proceed to 2.1

2.1: set rev=n[::-1]

2.2: print rev

Step 3: Read name from the user

Step 4: Call function from step 2 reverse(name)

Step 5: Stop

**PROGRAM:**

def reverse(n):

rev = n[::-1]

print(rev)

name=input("Enter a name: ")

reverse(name)

**OUTPUT:**

Enter a name: python

nohtyp

**3.COUNT THE LENGTH OF THE STRING**

**ALGORITHM:**

Step 1: Start

Step 2: Initialize count=0

Step 3: Read str1(string) from the user

Step 4: for i in str1 go to step 4.1 else go to Step 5

4.1: count=count+1

Step 5: Print(count)

Step 6: Stop

**PROGRAM:**

Str1=input(“Enter the string:”)

Count=0

for i in Str1:

count+=1

print(count)

**OUTPUT:**

Enter the String: Interpreter

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**4.REPLACING VOWELS WITH @ SYMBOL**

**ALGORITHM:**

Step 1: Start

Step 2: Read str1 from the user

Step 3: create a list for vowels

Step 4: for i in str1 go to step 4.1

4.1: if i is in vowels go to step 4.1.1 else go to 4.2

4.1.1: i=@

4.1.2: print i

4.2: print i

Step 5: Stop

**PROGRAM:**

str1=input(“Enter the String:”)

vow=[‘a’,’e’,’i’,’o’,’u’,’A’,’E’,’I’,’O’,’U’]

for i in str1:

if(i in vow):

i=”@”

print(i,end=” “)

else:

print(i)

**OUTPUT:**

Enter the String: vowel

v@w@l

**PRACTICE PROGRAM**

**PROGRAM:**

A="Python"

print(len(A))

b=A.lower()

print(b)

B="Interpreter"

c=A+" "+B

print(c)

f=c.split( )

print(f)

j=A[0]

n=j.isupper()

print(n)

**OUTPUT:**

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python

Python Interpreter

['Python', 'Interpreter']

True