**EX.NO:6**

**1)PYTHON PROGRAME TO CHECK WHETHER THE INPUT STRING IN PALINDROM**

**string1=list(input("enter list element"))**

**print (" string1",string1)**

**string2=string1.copy()**

**print("copid string 2",string2)**

**string1.reverse()**

**print("reversed:",string1)**

**if(string1==string2):**

**print("PALINDROME") print ("not PALINDROM")**

**OUTPUT:**

**enter list elementsharmila**

**string1**

**else:**

**['s', 'h', 'a', 'r', 'm', 'i', 'l', 'a']**

**copid string 2 ['s', 'h', 'a', 'r', 'm', 'i', 'l', 'a']**

**reversed: ['a', 'l', 'i', 'm', 'r', 'a', 'h', 's']**

**not PALINDROM**

**2)REVERSE THE STRING**

**def reverse(string):**

**string = string[::-1]**

**return string**

**s="sharmila"**

**print("the original string is: ",end = "")**

**print(s)**

**print("the reversed string(using extended slice syntax) is : ",end ="")**

**print (reverse("sharmila"))**

**OUTPUT:**

**the original string is: sharmila**

**the reversed string(using extended slice syntax) is : alimrahs**

**3) FIND THE LENGTH OF THE STRING**

**string=input(“enter string” )**

**count=0**

**for i in string:**

**count=count+1**

**print(“Length of the string is:”)**

**print(count)**

**OUTPUT:**

**Enter string:python**

**Length of the string is:**

**6**

**4)WRITE A PROGRAM THAT ACCEPTS A STRING FROM THE USER AND DISPLAY THE STRING AFTER REPLACING THE VOWEL CHARACTER WITH @**

**ENGINEERING    ---->@NG@N@@R@NG**

**COLLEGE   -----> C@LL@G@**

**CODING:**

**print(“enter a String: “, end=””)**

**str = input()**

**print(“Enter a character to replace all vowels with it: “, end=””)**

**char = input()**

**newstr = “”**

**vowels=['a','e','i','o','u','A','I','O','U',]**

**for i in range(len(str)):**

**if str[i] in vowels:**

**newstr = newstr + char**

**else:**

**newstr = newstr + str[i]**

**print(“\nOriginal String =”, str)**

**print(“New String =”, newstr)**

**OUTPUT:**

**Enter a String: ENGINEERING**

**Enter a character to replace all vowels with it: @**

**Original String = ENGINEERING**

**New String = @NG@N@@R@NG**

**Enter a String: COLLEGE**

**Enter a character to replace all vowels with it: @**

**Original String = COLLEGE**

**New String = C@LL@G@**