**Ext no:6(i) Python Program to check weather the given string is a palindrome**

**Date: 25.01.2023**

**Source Code:**

str1 = input ("Enter the string to check if it is a palindrome: ")

rev\_str= ""

for i in str1:

rev\_str = i+rev\_str

print("Reversed str : ",rev\_str)

if (str1==rev\_str):

print("It is a palindrome.")

else:

print("It is not a palindrome.")

**Output:**

Enter the string to check if it is a palindrome: racecar

Reversed str : racecar

It is a palindrome.

**Expt no:6(ii) Reversing a string**

**Date : 25.01.2023**

**Source code:**

str1 = input ("Enter the string to check if it is a palindrome: ")

rev\_str= ""

for i in str1:

rev\_str = i+rev\_str

print("Reversed str : ",rev\_str)

**Output:**

Enter the string to check if it is a palindrome: python

Reversed str : nohtyp

**Expt no:6(iii) Length of a string**

**Date : 25.01.2023**

**Source Code:**

string = input("Enter input: ")

count = 0

for i in string:

count+=1

print(count)

**Output:**

Enter input: python

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**Expt no:6(iv) Replacing the vowel character with @ in a string**

**Date: 25.01.2023**

**Source Code:**

def replaceVowelsWithK(test\_str, K):

vowels\_list = ['A', 'E', 'I', 'O', 'U', 'a', 'e', 'i', 'o', 'u']

new\_string = []

string\_list = list(test\_str)

for char in string\_list:

for char2 in vowels\_list:

if char == char2:

new\_string.append('@')

break

else:

new\_string.append(char)

return(''.join(new\_string))

input\_str = ""

K = "#"

input\_str=input("Enter an input: ")

print("Given String:", input\_str)

print("After replacing vowels with the specified character:",replaceVowelsWithK(input\_str, K))

**Output:**

Enter an input: assignment

Given String: assignment

After replacing vowels with the specified character: @ss@gnm@nt