**Program:**

# program to check string is palindrome or not

def check\_palindrome(s):

if s==s[::-1]:

print(s,'is palindrome')

else:

print(s,'is not palindrome')

str1=input('Enter a string : ')

check\_palindrome(str1)

**Output:**

Enter a string : son

son is not palindrome

**Program:**

# program to reverse the string

def reverse(s):

return s[::-1]

str1=input('Enter a string : ')

rev=reverse(str1)

print('The reversed string is',rev)

**Output:**

Enter a string : alex

The reversed string is xela

**Program:**

# program to find the length of the string

def str\_len(s):

l=0

for i in s:

l+=1

return l

str1=input('Enter a string : ')

str\_len(str1)

**Output:**

Enter a string : pandian

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**Program:**

# replacing the vowel by @

def replace(s):

l=[i for i in s]

a=0

for j in l:

if j in ['a','e','i','o','u','A','E','I','O','U']:

l[a]='@'

a+=1

else:

a+=1

s2=''

for k in l:

s2+=k

return s2

str1=input('Enter a string : ')

print(replace(str1))

**Output:**

Enter a string : alex

@l@x