PUNE INSTITUTE OF COMPUTER TECHNOLOGY
PUNE - 411043
Department of Electronics & Telecommunication
ASSESMENT YEAR: 2020-2021   CLASS: SE V
SUBJECT: Data Structure and Algorithm
Assg No: 11   **Roll No: 22119**   **Date:05/12/2020**

Programmer Name: Param Chordiya

Batch: E5

Problem Statement:

Write a program in Python to perform following string operations using the library functions
1. Input 2. Display string 3. Display length of string 4. Reverse, 5. Compare, 5. Substring using slice operator

INPUT:

```python
print("Roll no : 22119")
n = input("\nEnter the string :")
temp = n
def compare(s1,s2):
  if s1 == s2:
    return "Strings are equal."
  else:
    return "Strings are not equal."
def substr(s1,s2):
  if s2 in s1:
    return "Substring is found."
  else:
    return "Substring not found."
def choice():
  opt = int(input("\nChoose operation :"))
  if opt == 1:
    print("The string is :", n)
    choice()
  elif opt == 2:
    print("Length of the string is :",len(temp))
    choice()
  elif opt == 3:
    rev = temp[::-1]
    print("Reverse of the string is :",rev)
    choice()
  elif opt == 4:
    s2 = input("Enter the string to be compared:")
    print(compare(temp, s2))
    choice()
  elif opt == 5:
    s2 = input("Enter the substring :")
    print(substr(temp, s2))
    choice()
  else:
    print("Choose a valid option")
    choice()

print("\n1. To display the string")
print("2. To find the length of the string")
print("3. To display the reverse of the string")
```

PUNE INSTITUTE OF COMPUTER TECHNOLOGY
PUNE - 411043
Department of Electronics & Telecommunication
ASSESMENT YEAR: 2020-2021   CLASS: SE V
SUBJECT: Data Structure and Algorithm
Assg No: 11   **Roll No: 22119**   **Date:05/12/2020**

```
print("4. To compare two strings")
print("5. To check substring")
choice()
```

OUTPUT:

```
Roll no : 22119

Enter the string :abcd

1. To display the string
2. To find the length of the string
3. To display the reverse of the string
4. To compare two strings
5. To check substring

Choose operation :1
The string is : abcd

Choose operation :2
Length of the string is : 4

Choose operation :3
Reverse of the string is : dcba

Choose operation :4
Enter the string to be compared:abcd
Strings are equal.

Choose operation :4
Enter the string to be compared:ab
Strings are not equal.

Choose operation :5
Enter the substring :ab
Substring is found.
Choose operation :5
Enter the substring :ij
Substring not found.
```