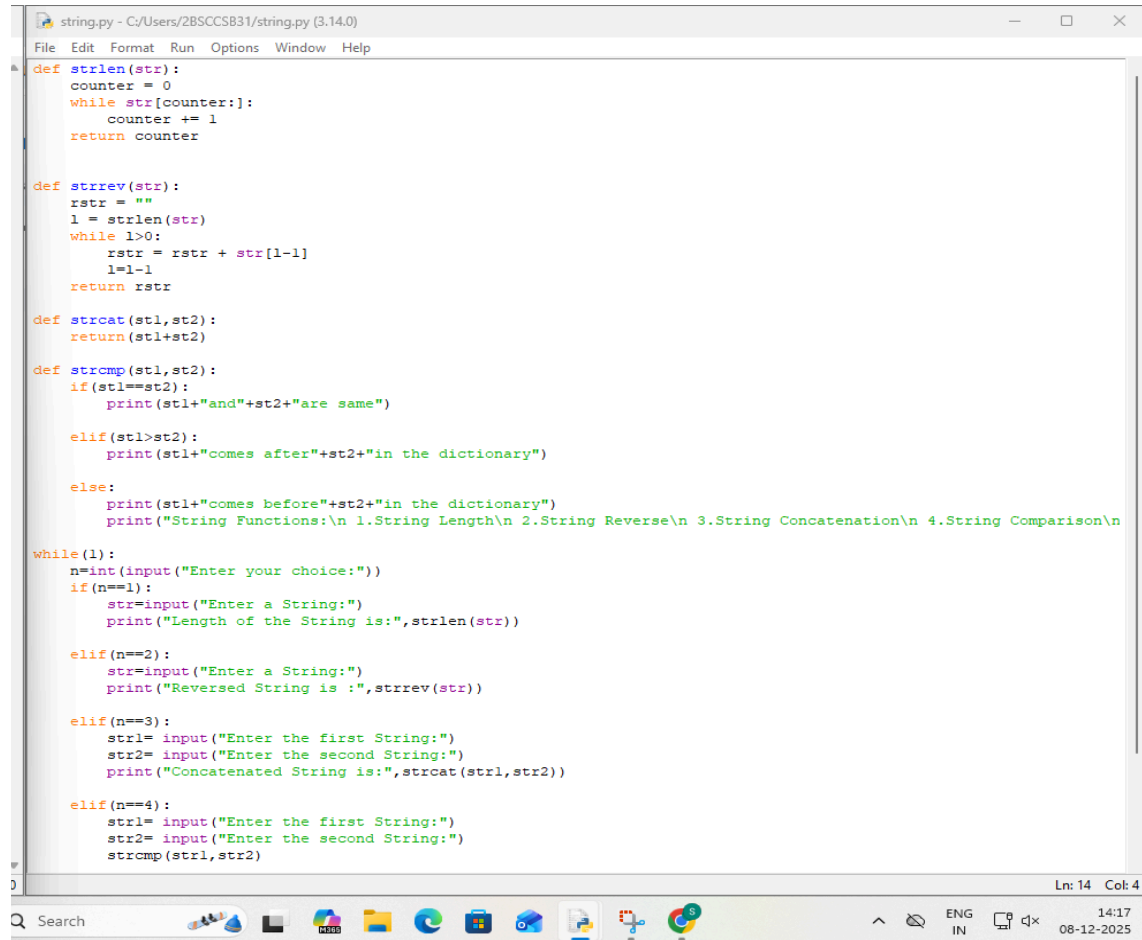


Ex No:2

STRING OPERATIONS PROGRAM

CODING:

A screenshot of a Python IDE window titled 'string.py - C:/Users/2BSCCSB31/string.py (3.14.0)'. The window contains a Python script with four functions: 'strlen', 'strrev', 'strcat', and 'strcmp'. The 'strlen' function counts the length of a string. The 'strrev' function reverses a string. The 'strcat' function concatenates two strings. The 'strcmp' function compares two strings and prints their relative positions. A 'while' loop prompts the user to choose an operation (1 for length, 2 for reverse, 3 for concatenation, 4 for comparison) and executes the corresponding function. The IDE interface includes a menu bar (File, Edit, Format, Run, Options, Window, Help), a toolbar, and a Windows taskbar at the bottom showing various application icons and the system clock (14:17, 08-12-2025).

```
def strlen(str):  
    counter = 0  
    while str[counter]:  
        counter += 1  
    return counter  
  
def strrev(str):  
    rstr = ""  
    l = strlen(str)  
    while l>0:  
        rstr = rstr + str[l-1]  
        l=l-1  
    return rstr  
  
def strcat(st1,st2):  
    return (st1+st2)  
  
def strcmp(st1,st2):  
    if (st1==st2):  
        print(st1+"and"+st2+"are same")  
  
    elif (st1>st2):  
        print(st1+"comes after"+st2+"in the dictionary")  
  
    else:  
        print(st1+"comes before"+st2+"in the dictionary")  
    print("String Functions:\n 1.String Length\n 2.String Reverse\n 3.String Concatenation\n 4.String Comparison\n")  
  
while (1):  
    n=int(input("Enter your choice:"))  
    if (n==1):  
        str=input("Enter a String:")  
        print("Length of the String is:",strlen(str))  
  
    elif (n==2):  
        str=input("Enter a String:")  
        print("Reversed String is :",strrev(str))  
  
    elif (n==3):  
        str1= input("Enter the first String:")  
        str2= input("Enter the second String:")  
        print("Concatenated String is:",strcat(str1,str2))  
  
    elif (n==4):  
        str1= input("Enter the first String:")  
        str2= input("Enter the second String:")  
        strcmp(str1,str2)
```

```
def strlen(str):  
    counter = 0  
    while str[counter]:  
        counter += 1  
    return counter
```

```
def strrev(str):  
    rstr = ""  
    l = strlen(str)  
    while l>0:  
        rstr = rstr + str[l-1]  
        l=l-1  
    return rstr
```

```

def strcat(st1,st2):
    return(st1+st2)

def strcmp(st1,st2):
    if(st1==st2):
        print(st1+"and"+st2+"are same")

    elif(st1>st2):
        print(st1+"comes after"+st2+"in the dictionary")

    else:
        print(st1+"comes before"+st2+"in the dictionary")
        print("String Functions:\n 1.String Length\n 2.String Reverse\n 3.String Concatenation\n
4.String Comparison\n 5.Exit\n")

while(1):
    n=int(input("Enter your choice:"))
    if(n==1):
        str=input("Enter a String:")
        print("Length of the String is:",strlen(str))

    elif(n==2):
        str=input("Enter a String:")
        print("Reversed String is :",strrev(str))

    elif(n==3):
        str1= input("Enter the first String:")
        str2= input("Enter the second String:")
        print("Concatenated String is:",strcat(str1,str2))

    elif(n==4):
        str1= input("Enter the first String:")
        str2= input("Enter the second String:")
        strcmp(str1,str2)

    elif(n==5):
        print("Exited")
        break

    else:
        print("Invalid Choice")

```

OUTPUT:

```
IDLE Shell 3.14.0
File Edit Shell Debug Options Window Help
Python 3.14.0 (tags/v3.14.0:ebf955d, Oct 7 2025, 10:15:03) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.

>>>
===== RESTART: C:/Users/2BSCCSB31
/string.py =====
Enter your choice:1
Enter a String:SARA
Length of the String is: 1
Enter your choice:2
Enter a String:ASRA
Reversed String is : A
Enter your choice:3
Enter the first String:IQRA
Enter the second String:MARYAM
Concatenated String is: IQRAMARYAM
Enter your choice:4
Enter the first String:NEELUFAR
Enter the second String:MARYAM
NEELUFARcomes afterMARYAMin the dictionary
Enter your choice:5
Exited

>>>
===== RESTART: C:/Users/2BSCCSB31/string.py =====
Enter your choice:1
Enter a String:SARA
Length of the String is: 4
Enter your choice:2
Enter a String:ASRA
Reversed String is : ARSA
Enter your choice:3
Enter the first String:IQRA
Enter the second String:MARYAM
Concatenated String is: IQRAMARYAM
Enter your choice:4
Enter the first String:NEELUFAR
Enter the second String:MARYAM
NEELUFARcomes afterMARYAMin the dictionary
Enter your choice:5
Exited

>>>
|

Ln: 39 Col: 0
6 30°C Sunny
```