

Assignment 7

Q. python program that accepts a string from user and perform following string operations-

1. Calculate length of string
2. String reversal
3. Equality check of two strings
4. Check palindrome
5. Check sub string

```
string_1 = str(input("Enter a string : "))
length = len(string_1)
print("Length of string is : ", length)
reversed_string = string_1[::-1]
print("The string reversed is : ", reversed_string)
string_2 = str(input("Enter second string : "))
reversed_string2 = string_2[::-1]
if string_1 == string_2:
    print("The strings are equal")
else:
    print("The strings are different")
if string_1 == reversed_string and string_2 == reversed_string2:
    print("Both strings are palindromes")
elif string_1 == reversed_string:
    print("String 1 is a palindrome")
elif string_2 == reversed_string2:
    print("Second string is a palindrome")
else:
    print("None of the two strings are palindromes")
substr = str(input("Enter substring : "))
if substr in string_1:
    print(substr, "is a substring of the entered string")
else:
    print("It is not a substring")
```

Output:

Project: string.py

Run: string

```
C:\Users\Admin\PycharmProjects\project2\.venv\Scripts\python.exe C:\Users\Admin\PycharmProjects\project2\string.py
Enter a string : hello world
Length of string is : 11
The string reversed is : dlrow olleh
Enter second string : hell
The strings are different
None of the two strings are palindromes
Enter substring : hell
hell is a substring of the entered string

Process finished with exit code 0
```

project2 > string.py 11:39 CRLF UTF-8 4 spaces Python 3.12 (project2)

Project: string.py

Run: string

```
C:\Users\Admin\PycharmProjects\project2\.venv\Scripts\python.exe C:\Users\Admin\PycharmProjects\project2\string.py
Enter a string : python programming
Length of string is : 18
The string reversed is : gnimmargorp nohtyp
Enter second string : react+ programming
The strings are different
None of the two strings are palindromes
Enter substring : python
python is a substring of the entered string

Process finished with exit code 0
```

project2 > string.py 11:39 CRLF UTF-8 4 spaces Python 3.12 (project2)