

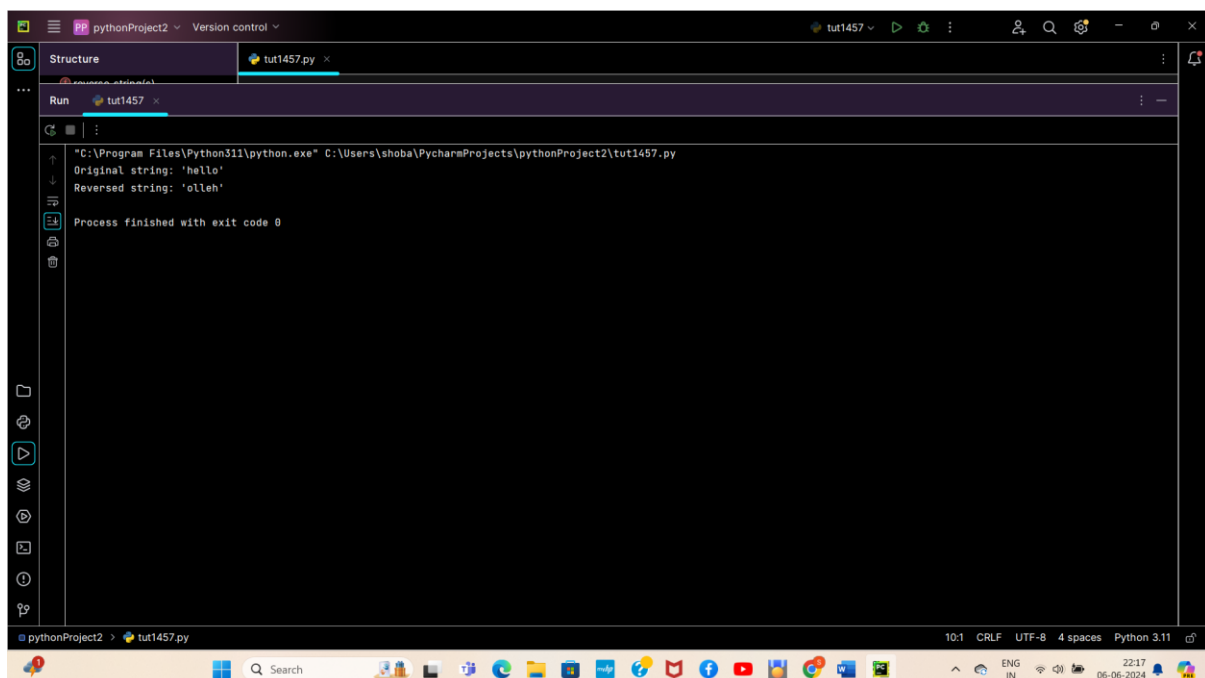
CSA0670-Design and Analysis of Algorithms for Tractability Problems.

7. Write a program to print the reverse of a string using recursion.

Program:

```
def reverse_string(s):  
    if len(s) <= 1:  
        return s  
    return reverse_string(s[1:]) + s[0]  
  
s = "hello"  
reversed_s = reverse_string(s)  
print("Original string: '{}'".format(s))  
print("Reversed string: '{}'".format(reversed_s))
```

Output:



```
"C:\Program Files\Python311\python.exe" C:\Users\shoba\PycharmProjects\pythonProject2\tut1457.py  
Original string: 'hello'  
Reversed string: 'olleh'  
  
Process finished with exit code 0
```

Time Complexity: $O(n)$