

7.WRITE A PROGRAM TO PRINT THE REVERSE STRING USING RECURSION

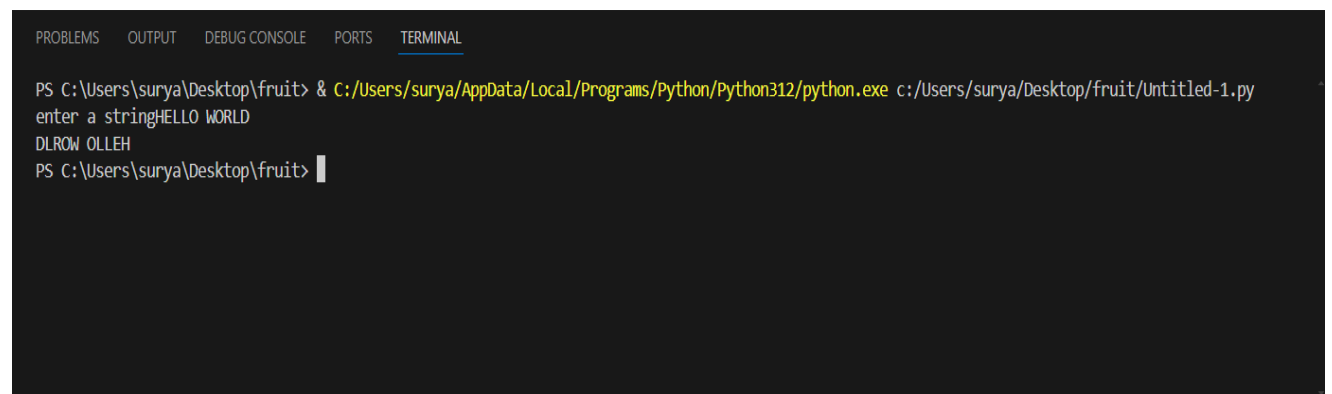
PROGRAM:

```
def reverse(s):  
    if len(s)==0:  
        return s  
    else:  
        return reverse(s[1:])+s[0]  
string=input("enter a string")  
reversed=reverse(string)  
print(reversed)
```

TIME COMPLEXITY: $O(n^2)$

INPUT:HELLO WORLD

OUTPUT:



The screenshot shows a terminal window with a dark background. At the top, there are tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'PORTS', and 'TERMINAL', with 'TERMINAL' being the active tab. The terminal content shows a command prompt 'PS C:\Users\surya\Desktop\fruit>' followed by a command to run a Python file. The output shows the user input 'HELLO WORLD' and the program's output 'DLROW OLLEH'.

```
PS C:\Users\surya\Desktop\fruit> & C:/Users/surya/AppData/Local/Programs/Python/Python312/python.exe c:/Users/surya/Desktop/fruit/Untitled-1.py  
enter a stringHELLO WORLD  
DLROW OLLEH  
PS C:\Users\surya\Desktop\fruit> |
```