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

PROGRAM:

```
def reverse_string(s):
    if len(s) == 0:
        return s
    else:
        return reverse_string(s[1:]) + s[0]
input_string = Input("enter the String")
reversed_string = reverse_string(input_string)
print("Original String:", input_string)
print("Reversed String:", reversed_string)
```

INPUT:

```
enter the string: helloworld
```

OUTPUT :

```
Original String: helloworld
Reversed String: dlrowolleh
```

TIME COMPLEXITY : O(n)