

6.write a program for to copy one string to another using recursion

Program:-

```
def copy_string(source, destination, index=0):  
    if index == len(source):  
        return destination  
    destination += source[index]  
    return copy_string(source, destination, index + 1)  
source_str = "Hello, World!"  
destination_str = ""  
result = copy_string(source_str, destination_str)  
print(result)
```

output:-

```
Hello, World!
```

```
=== Code Execution Successful ===
```

Time complexity:- $O(n)$