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

PROGRAM:

```python
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("Source String:", source_str)
print("Copied String:", result)
```

INPUT:

"Hello, World!"

OUTPUT:

```
Source String: Hello, World!
Copied String: Hello, World!
```

TIME COMPLEXITY:

Time complexity of the above code is

$f(n)=O(n)$