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

Aim: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)


# Test the function
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)