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

Code:

```python
def copy_string_recursive(source, destination='', index=0):
    if index == len(source):
        return destination
    destination += source[index]
    return copy_string_recursive(source, destination, index + 1)

source_string = input("Enter the source string: ")

copied_string = copy_string_recursive(source_string)

print(f"Copied string: {copied_string}")
```

Output:

```
Enter the source string: hello
Copied string: hello
```

Time Complexity:

- T(n)= O(n)