

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 = input("enter the string")  
destination_str = ""  
result = copy_string(source_str, destination_str)  
print("Source String:", source_str)  
print("Copied String:", result)
```

INPUT: enter the string: hello world

OUTPUT: source sting: hello world  
destination\_str: hello world

TIME COMPLEXITY :  $O(n)$