6.WRITE A PROGRAM TO COPY 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)
TIME COMPLEXITY:O(n)
INPUT:Hello, World!
OUTPUT:
```

TERMINAL Hello, World! PS C:\Users\surya\Desktop\fruit> & C:/Users/surya/AppData/Local/Programs/Python/Python312/python.exe c:/Users/surya/Desktop/fruit/Untitled-1.py PS C:\Users\surya\Desktop\fruit> & C:\Users\surya\AppData\Local\Programs\Python\Python312\python.exe c:\Users\surya\Desktop\fruit\Untitled-1.py Hello, World! PS C:\Users\surya\Desktop\fruit> & C:\Users\surya\AppData\Local\Programs\Python\Python312\python.exe c:\Users\surya\Desktop\fruit\Untitled-1.py Hello, World! PS C:\Users\surya\Desktop\fruit> & C:/Users/surya/AppData/Local/Programs/Python/Python312/python.exe c:/Users/surya/Desktop/fruit/Untitled-1.py Hello, World! PS C:\Users\surya\Desktop\fruit> & C:\Users\surya\AppData\Local\Programs\Python\Python312\python.exe c:\Users\surya\Desktop\fruit\Untitled-1.py Hello, World! PS C:\Users\surya\Desktop\fruit>