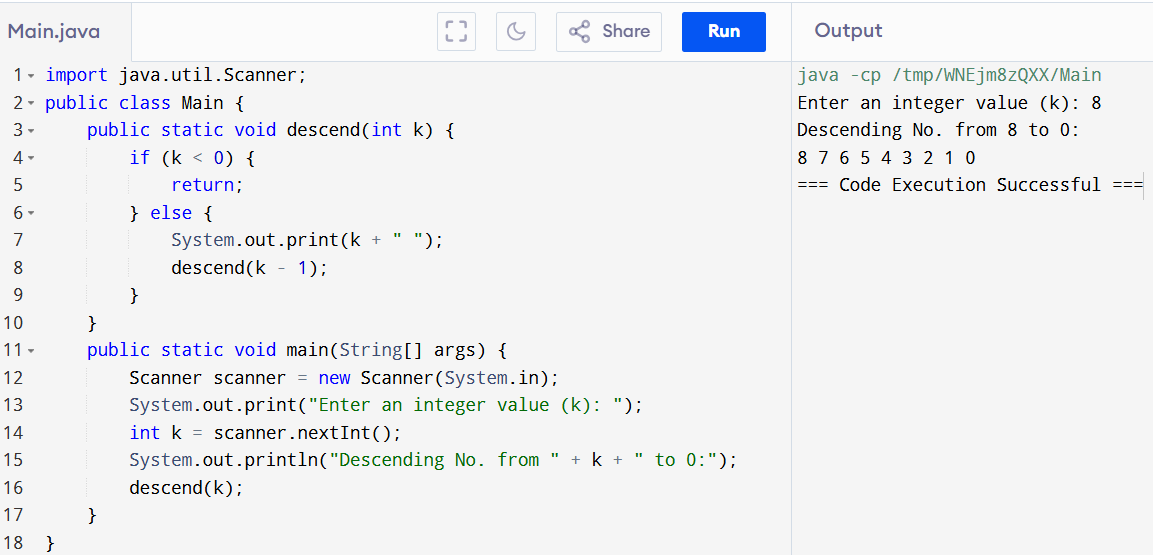
**LAB # 03**

**RECURSION**

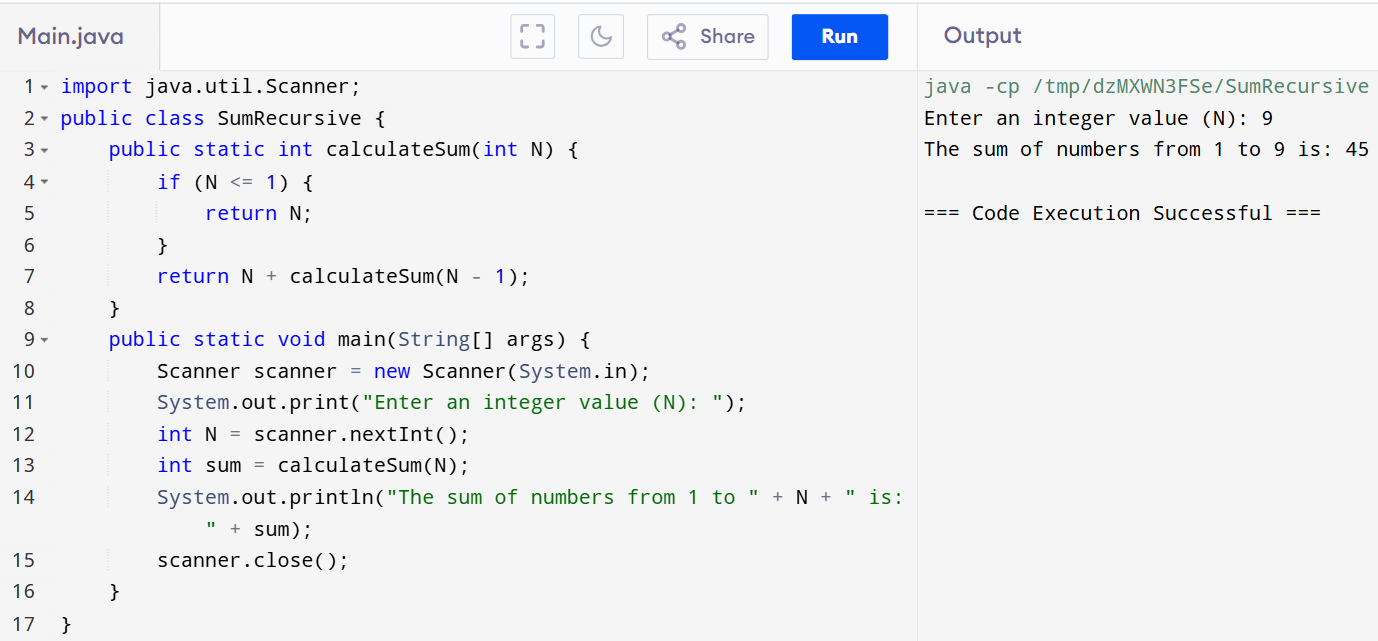
**OBJECTIVE**: To understand the complexities of the recursive functions and a way to reduce these complexities.

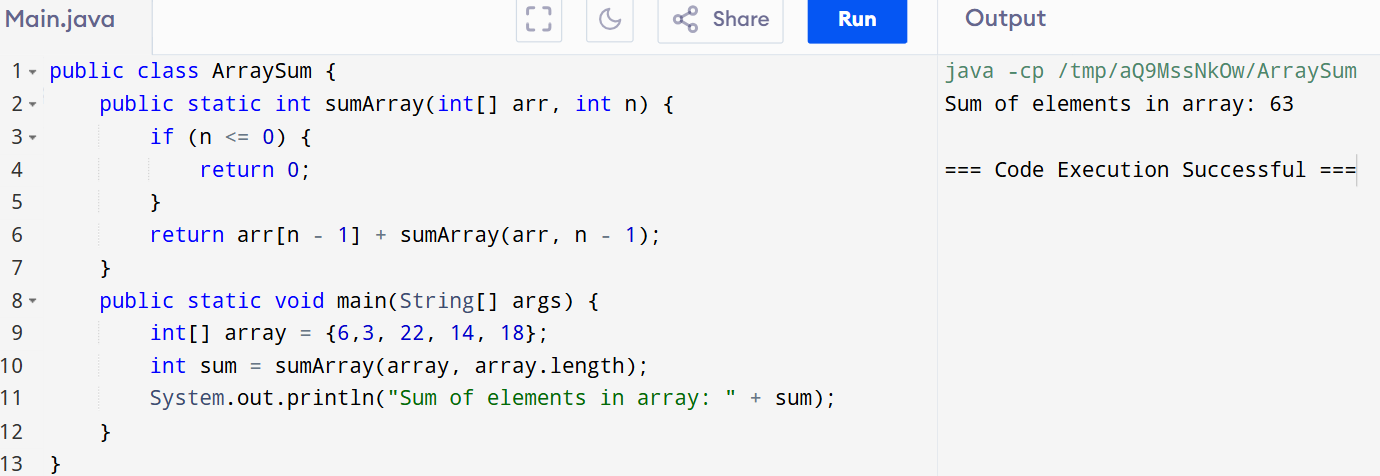
**Lab Task 1:**



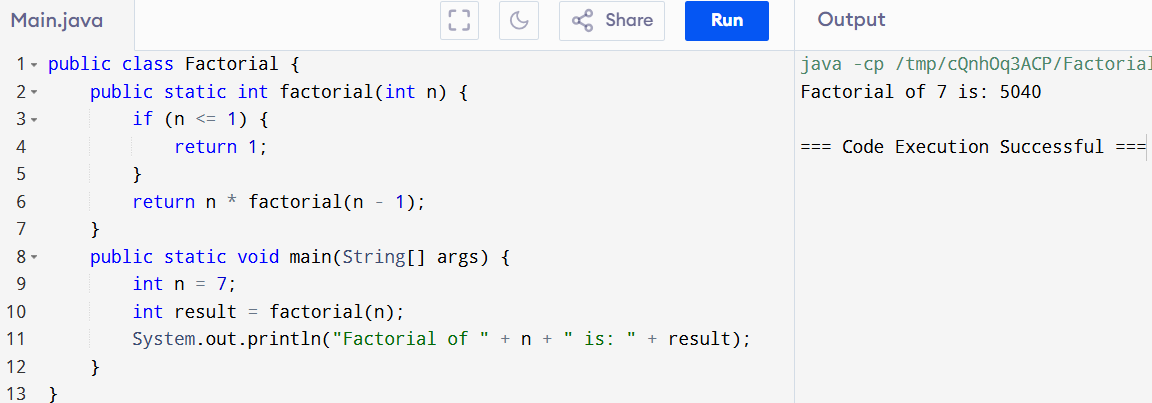
**Lab Task 2:**

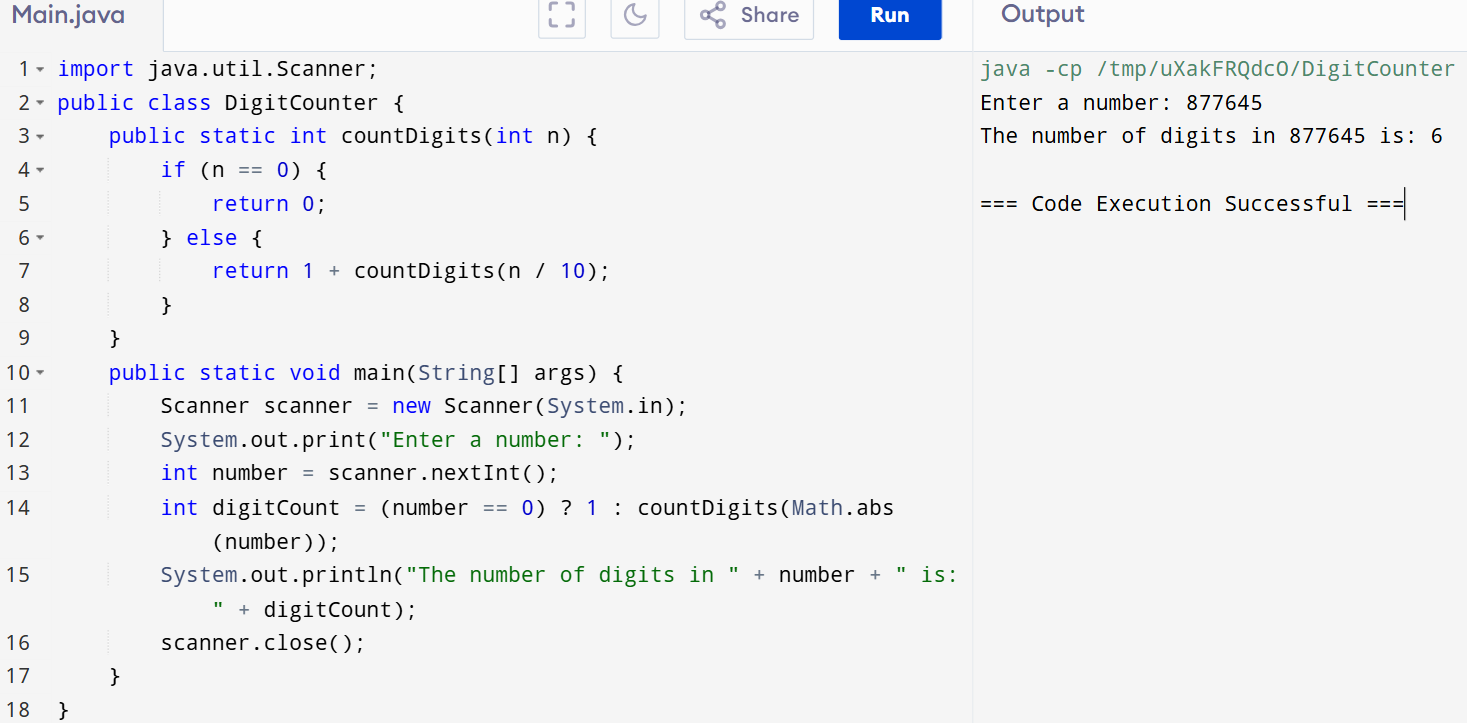
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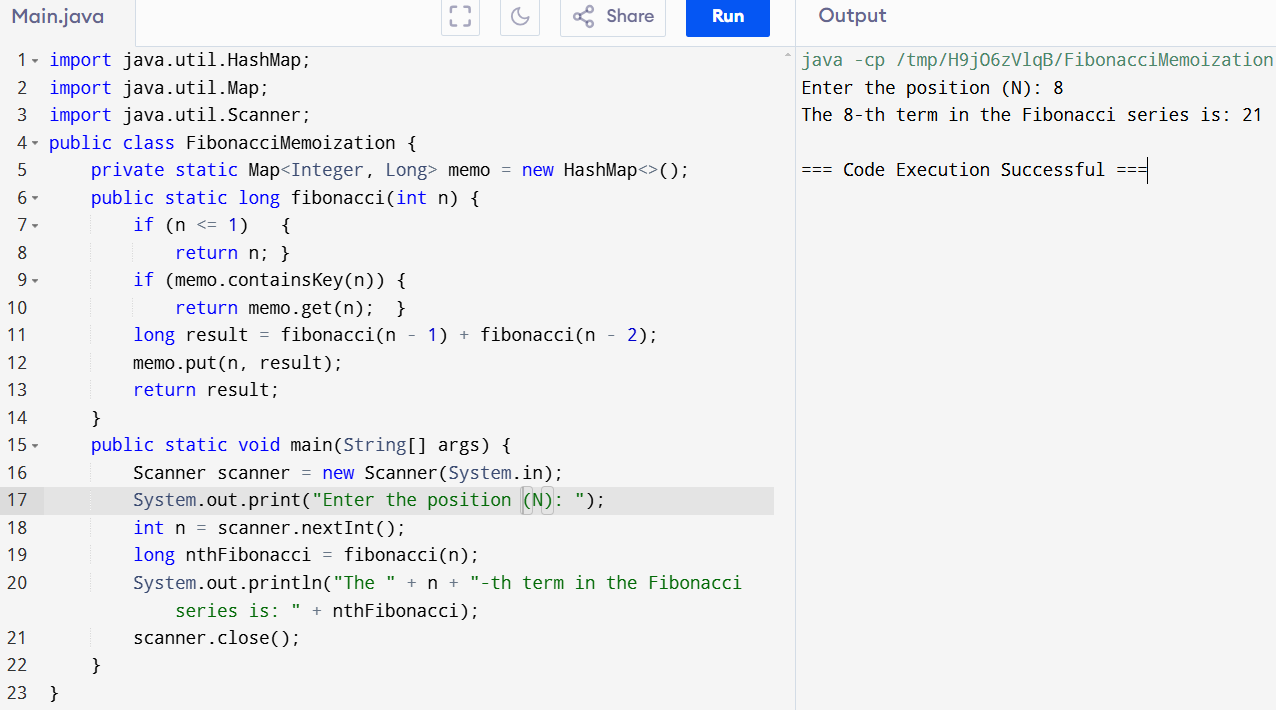
Lab Task 3:

Lab Task 4:

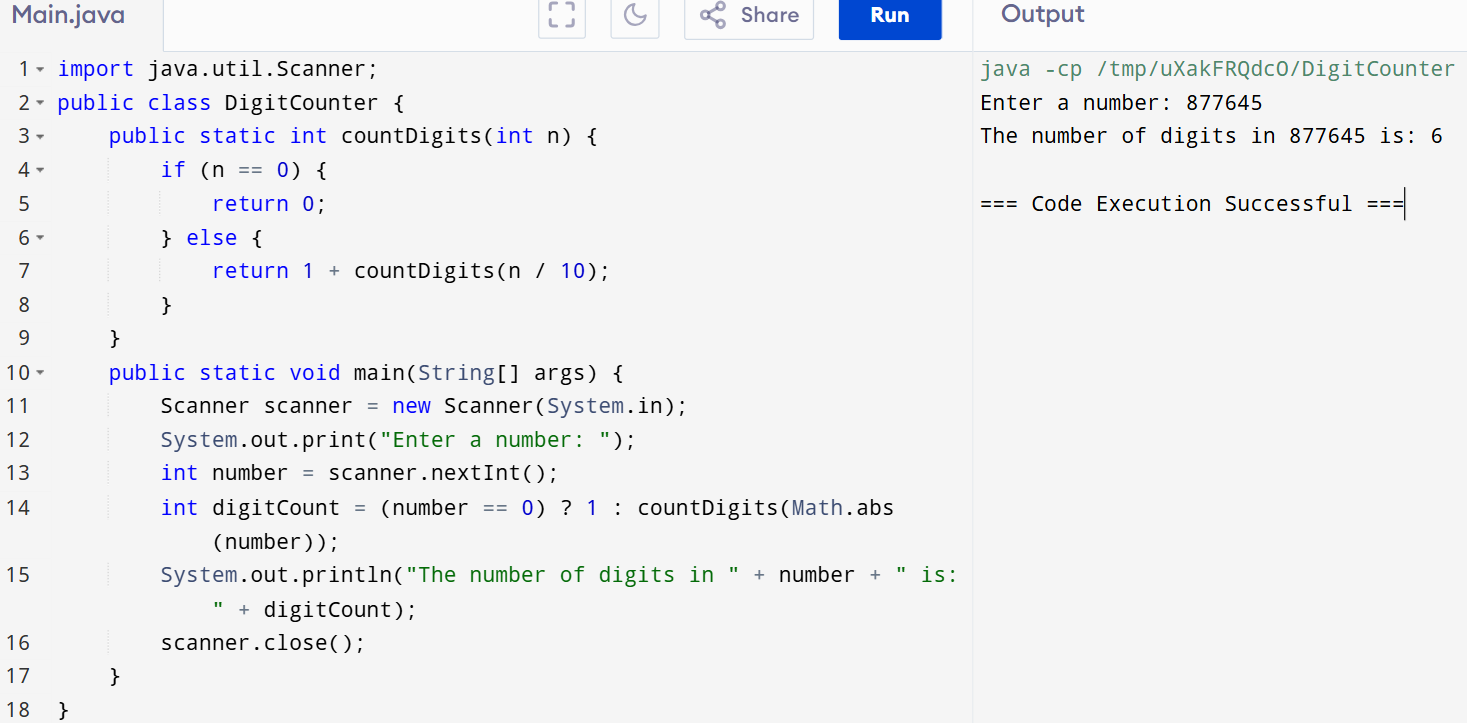
Lab Task 5:



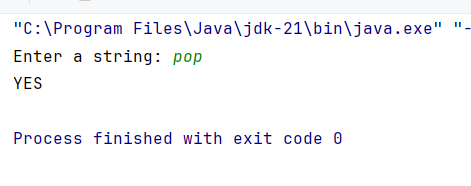
Lab Task 6:

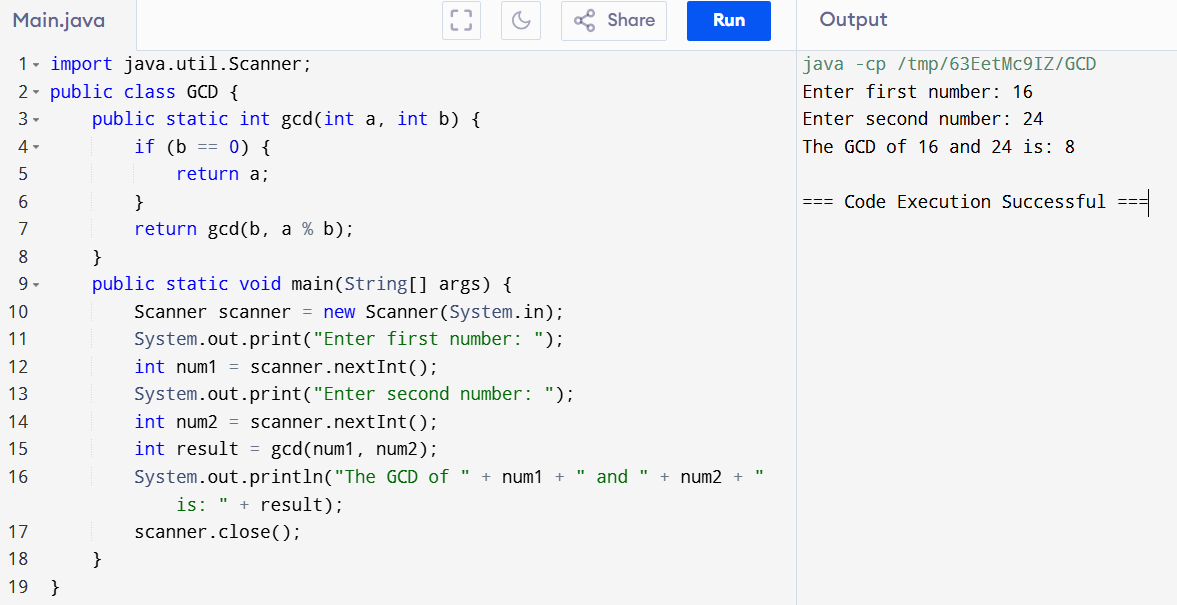
Home Task 1:

Home Task 2:



Home Task 3:

Output:

Home Task 4: