



NUST CHIP DESIGN CENTRE

C / C++ Programming

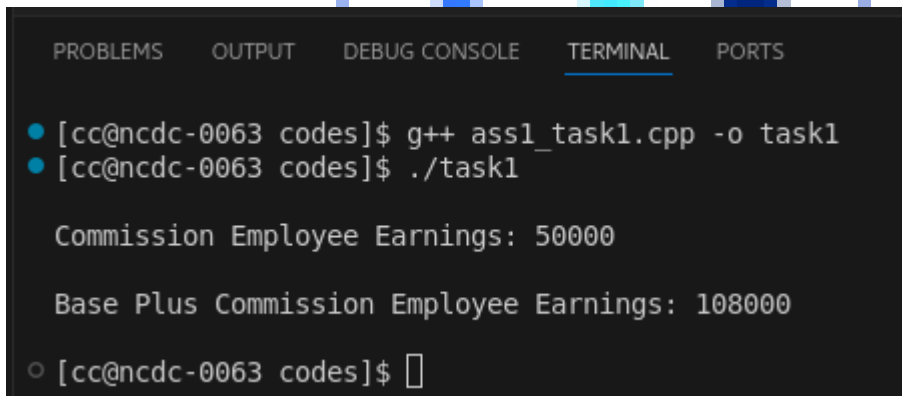
Assignment # 1

Inheritance & Virtual Functions in C++

|                          |   |
|--------------------------|---|
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| <b><u>Instructor</u></b> | <i><u>Hira Sohail</u></i>               |
| <b><u>Date</u></b>       | <i><u>22<sup>th</sup> July 2025</u></i> |

### 1. In-Lab Tasks: (*Write your lab task & screenshots here*)

#### i. Task 1:



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

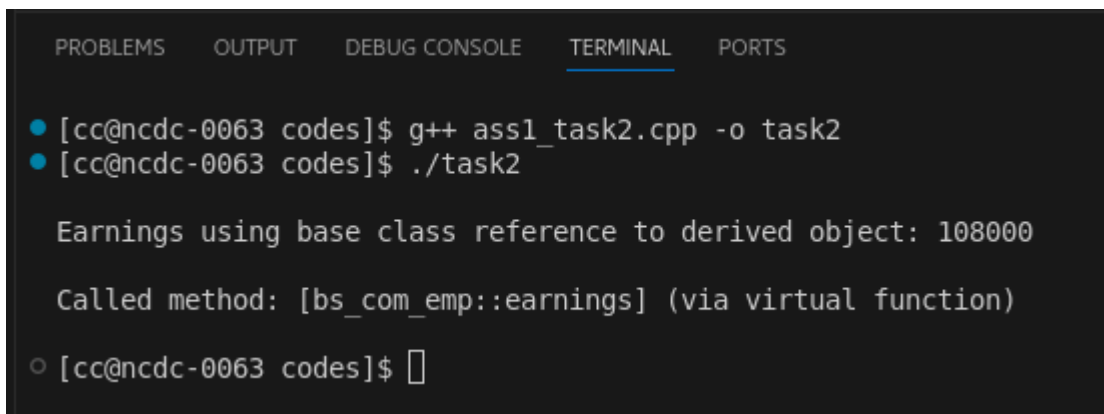
• [cc@ncdc-0063 codes]$ g++ ass1_task1.cpp -o task1
• [cc@ncdc-0063 codes]$ ./task1

Commission Employee Earnings: 50000

Base Plus Commission Employee Earnings: 108000

○ [cc@ncdc-0063 codes]$
```

#### ii. Task 2:



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

• [cc@ncdc-0063 codes]$ g++ ass1_task2.cpp -o task2
• [cc@ncdc-0063 codes]$ ./task2

Earnings using base class reference to derived object: 108000

Called method: [bs_com_emp::earnings] (via virtual function)

○ [cc@ncdc-0063 codes]$
```