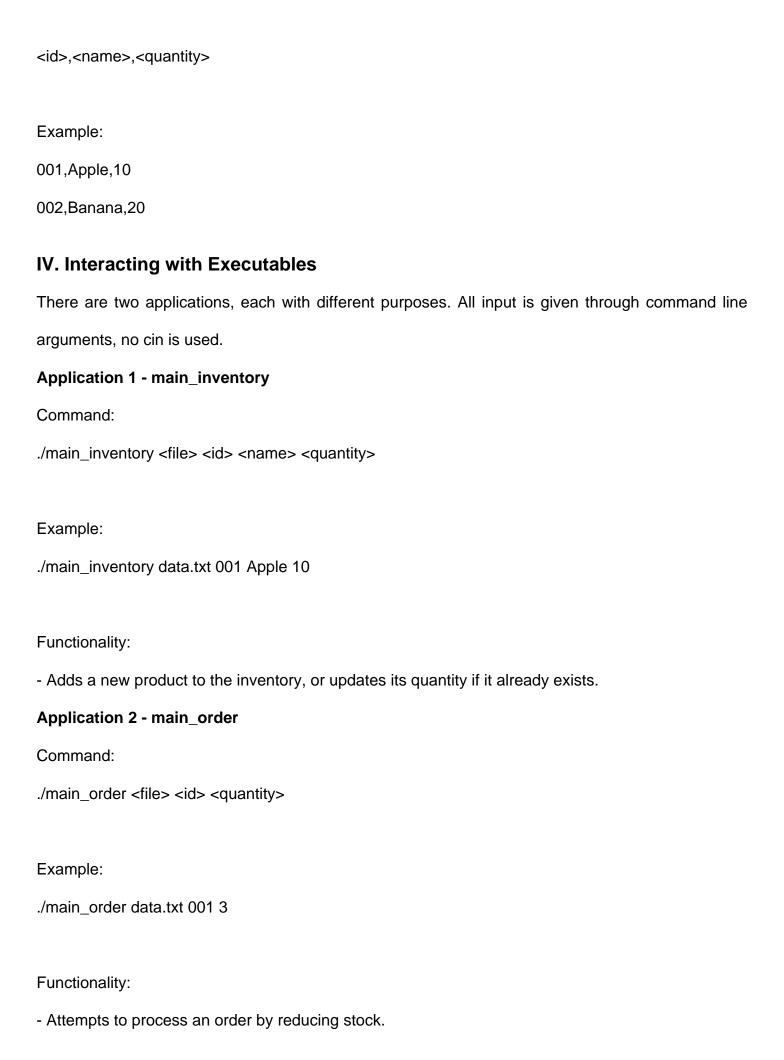
Programming Project / C++ - Inventory and Order Processor

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I. Task Description
Student 1 is responsible for managing the inventory:
- Adding new products or updating existing stock (based on ID).
- Viewing the inventory contents.
Student 2 is responsible for processing orders:
- Reducing the stock based on ordered quantities.
- Rejecting orders if stock is insufficient or the product doesn't exist.
II. Data Structures Used by the Team
The following classes will be used:
- Product:
string id, string name, int quantity
- Inventory:
Aggregates a list of Product objects and provides logic for modification and access.
III. File Structure
The following files will be used:
data.txt
This is the shared file where all product data is stored. Each line represents one product:



- Rejects order if stock is insufficient or ID does not exist.

V. Code Structure

The project is divided into the following source files:

- Product.hpp/cpp: Contains definition and implementation of the Product class
- Inventory.hpp/cpp: Contains Inventory class that manages the stock
- main_inventory.cpp: Entry point for Student 1's responsibilities
- main_order.cpp: Entry point for Student 2's responsibilities
- data.txt: Shared product database