

## Sample Problem 2: Grocery Store Bill Generation Application

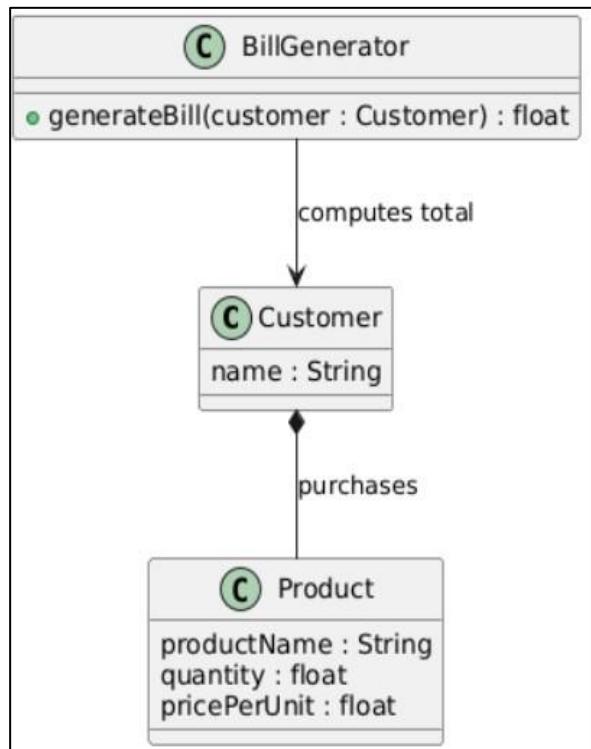
### Class Diagram

**Diagram Description:** Classes: Customer, Product, BillGenerator

Relationships:

A Customer can purchase multiple Product items (Composition).

BillGenerator computes the total for the Customer.

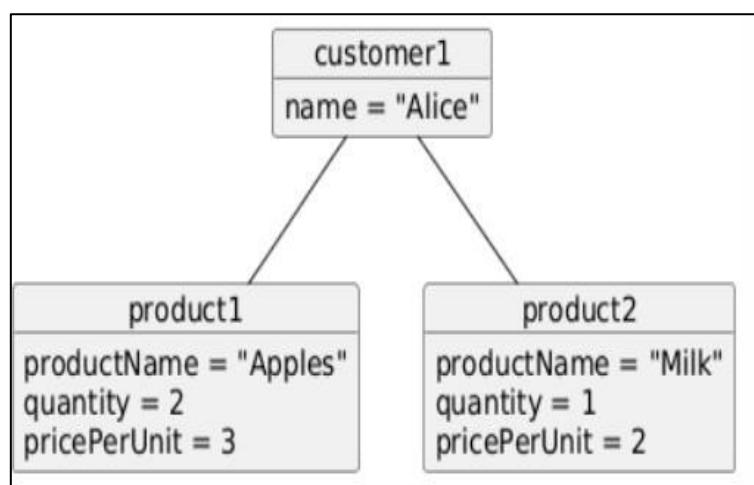


### Object Diagram

**Example:**

Customer: Alice

Products: Apples (2 kg at \$3 per kg) & Milk (1 liter at \$2 per liter)



### Sequence Diagram

**Scenario:** A customer checks out at the grocery store, and the total bill is generated.

**Actors:** Customer, BillGenerator

