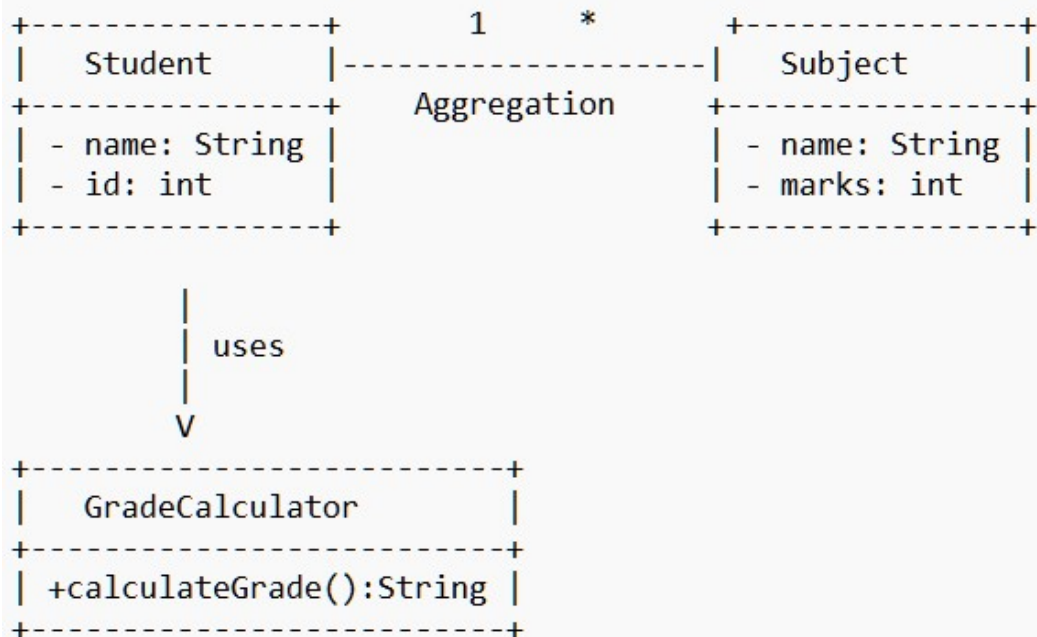


## Sample Problem 1: School Results Application

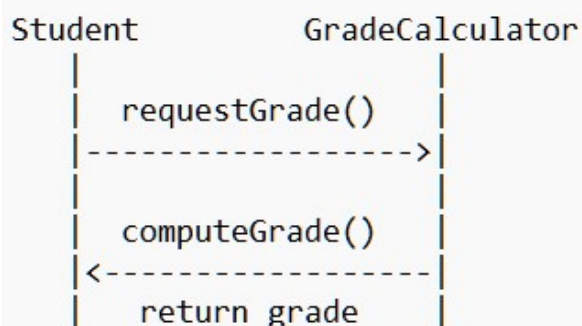
### > Class Diagram



### > Object Diagram (Snapshot)

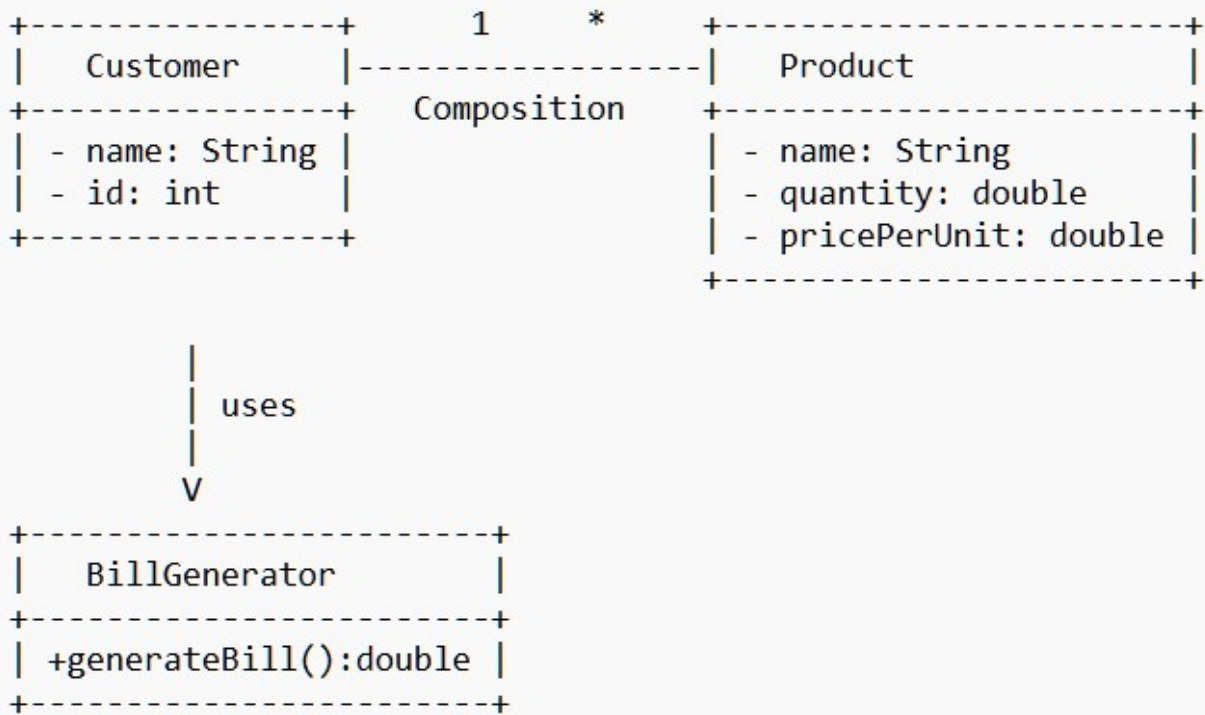
```
Student: John
|
+-- Subject: Maths
|    marks = 90
||
+-- Subject: Science
|    marks = 85
```

### > Sequence Diagram



## Sample Problem 2: Grocery Store Bill Generation Application

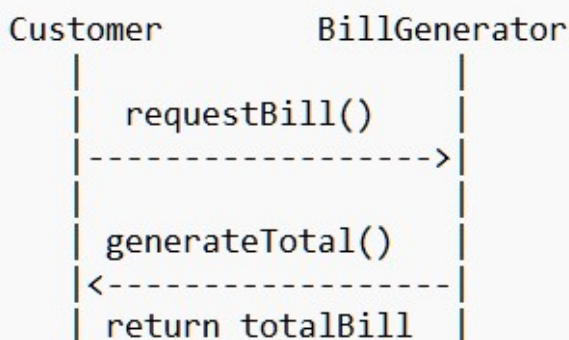
### > Class Diagram



### > Object Diagram (Snapshot)

```
Customer: Alice
|
+-- Product: Apples
|   quantity = 2kg
|   pricePerKg = $3
|
+-- Product: Milk
|   quantity = 1L
|   pricePerL = $2
|
```

### > Sequence Diagram



\* Comparison Table \*

Feature	School Results Application	Grocery Store Bill Application
Classes	Student, Subject, GradeCalculator	Customer, Product, BillGenerator
Relationships	Aggregation	Composition
Functionality	Calculate grade	Generate total bill
Key Entities	Students, Subjects, Grades	Customers, Products, Bills