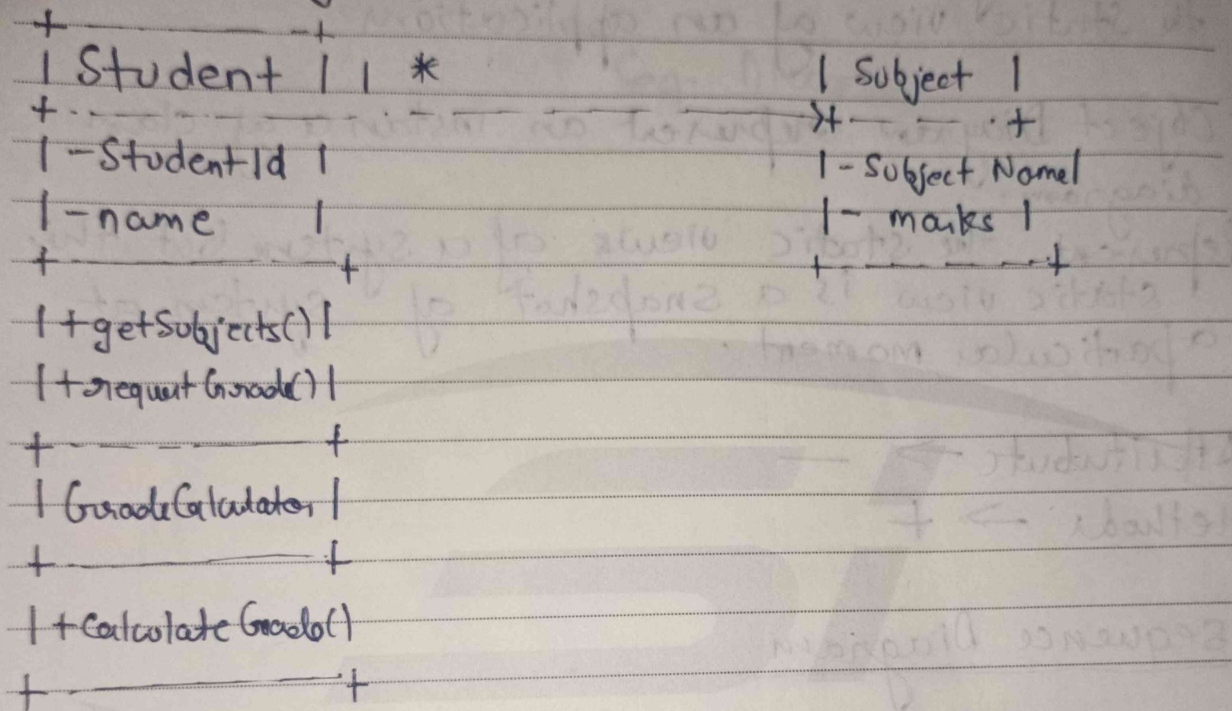


Sample Problem-1 : School Results Application

Class Diagram



Classes:

Student → Attributes: StudentId, name

Methods: getSubjects(), requestGrade()

Subject → Attributes: SubjectName, marks

GradeCalculator → Methods: calculateGrade

Relationships:

Student → (aggregation with Subject)

Student → uses Calculator (association)

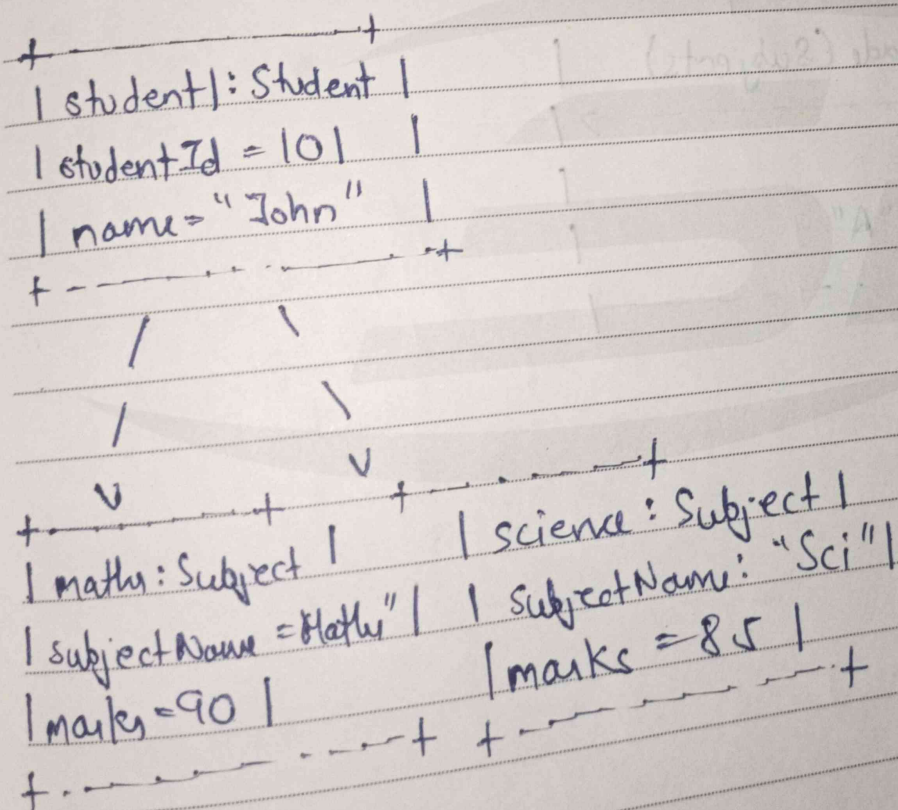
Grade Calculator → no direct relationship.

Object Diagram

Instances → student1, maths, science

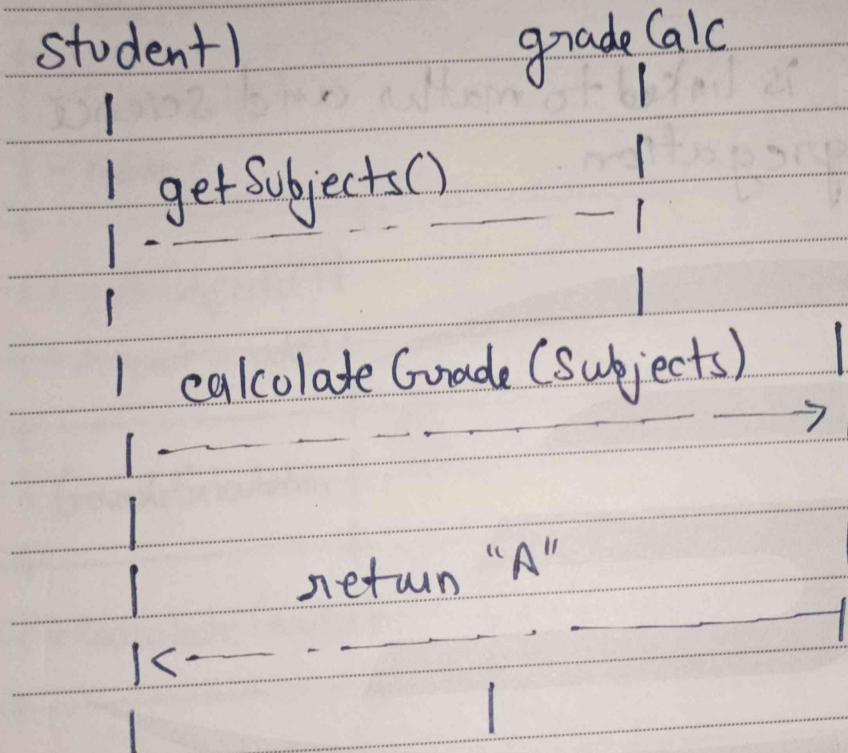
Attributes : Student1, maths, science

Relationships : student is linked to maths and science via aggregation.



• Sequence Diagram:

Actors and Objects : student1 : Student
gradeCalc : Grade Calculator



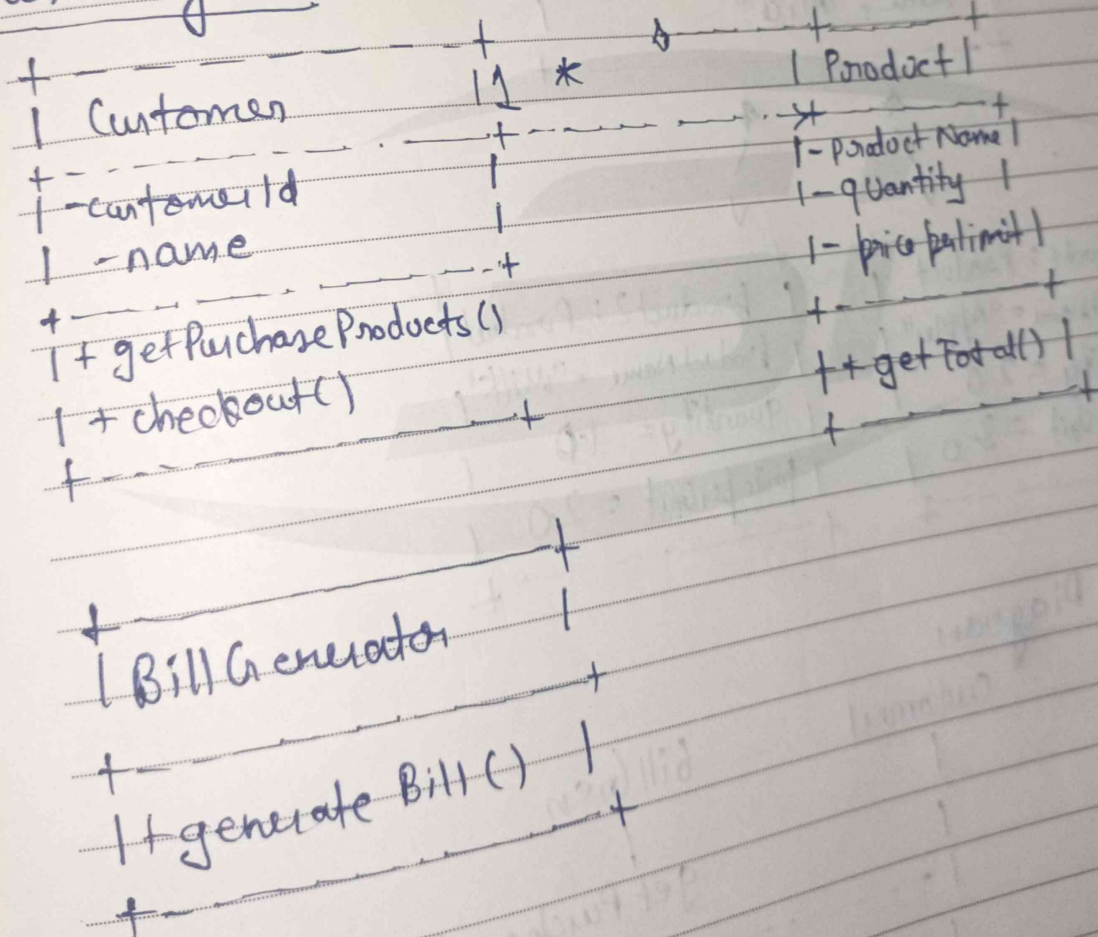
Sample Problem 2 : Grocery Store Bill Generation Application

Classes: Customer, Product, Bill Generator

Relationships:

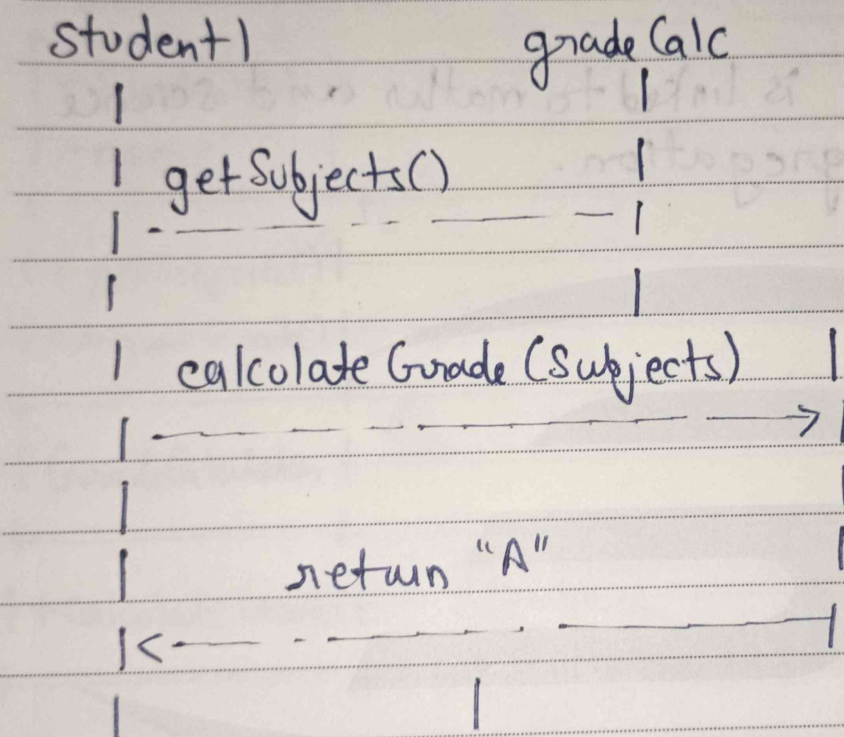
Customer has one to many with Product

Class Diagram:



Sequence Diagram:

Actors and Objects : student1 : Student
gradeCalc : Grade Calculator



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Sample Problem 2 : Grocery Store Bill Generation Application

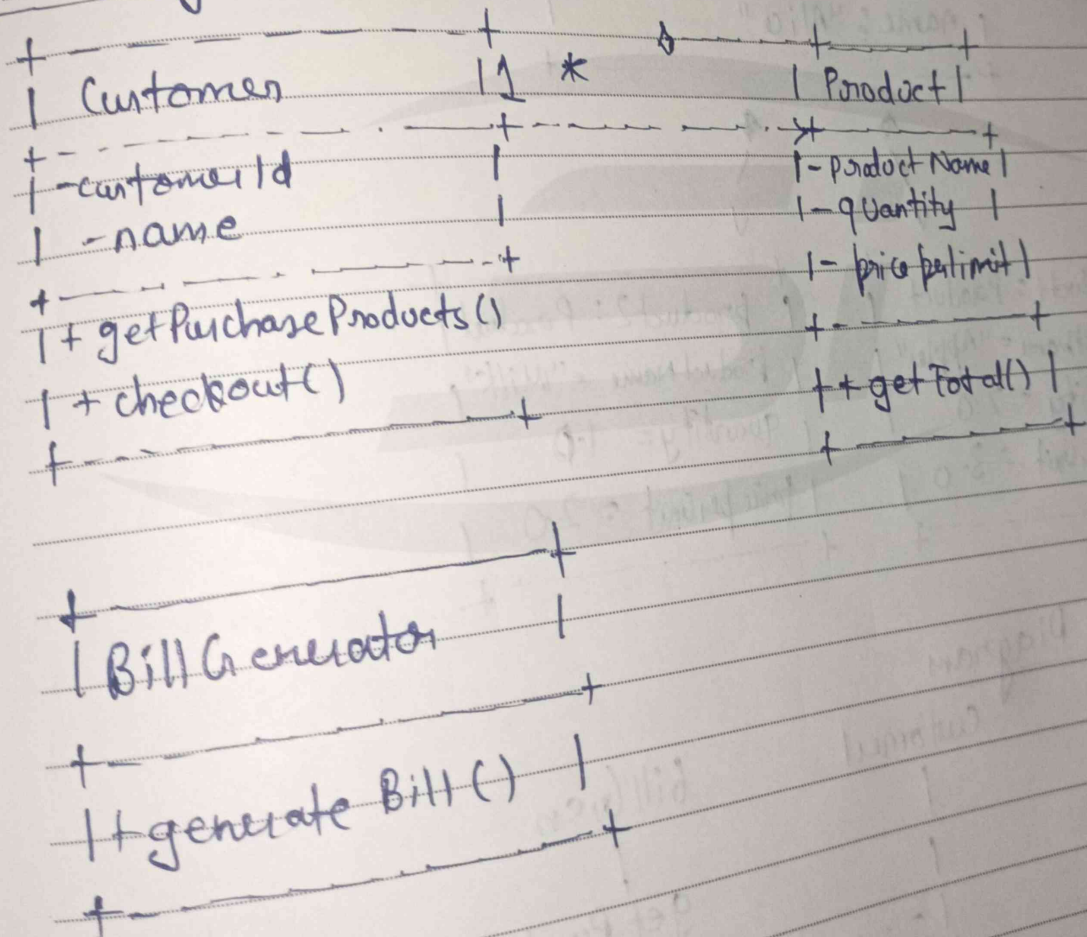
Date _____

Classes: Customer, Product, Bill generator

Relationships:

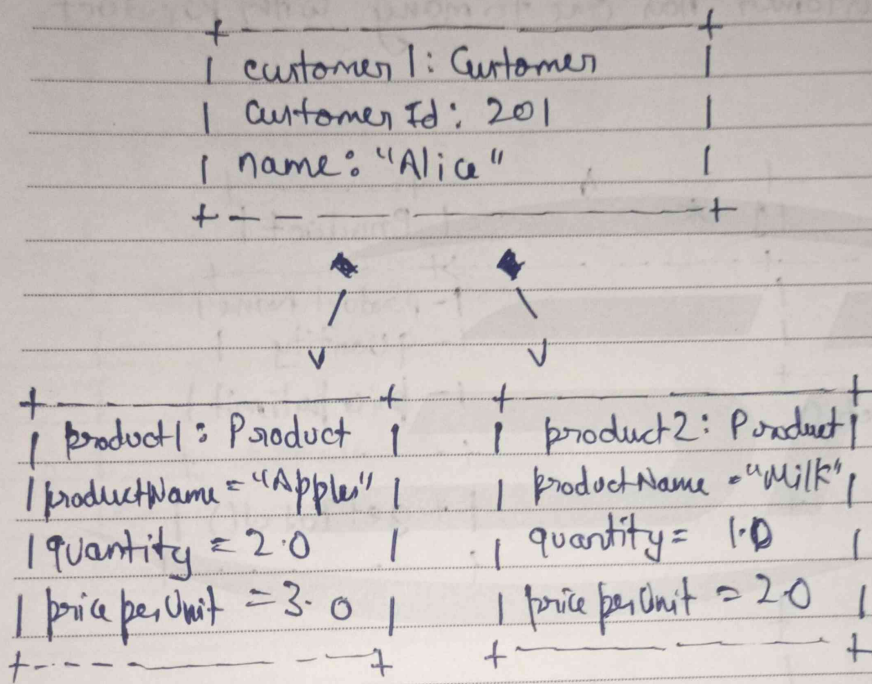
Customer has one to many with Product

Class Diagram:



Object Diagram

Runtime Instances: customer1, product1, product2
 Attributes Values: customer1, product1, product2



Sequence Diagram

