

Ex No: 2

UML Class Diagram for Student Management System

Aim: To draw UML Class diagram for student management system.

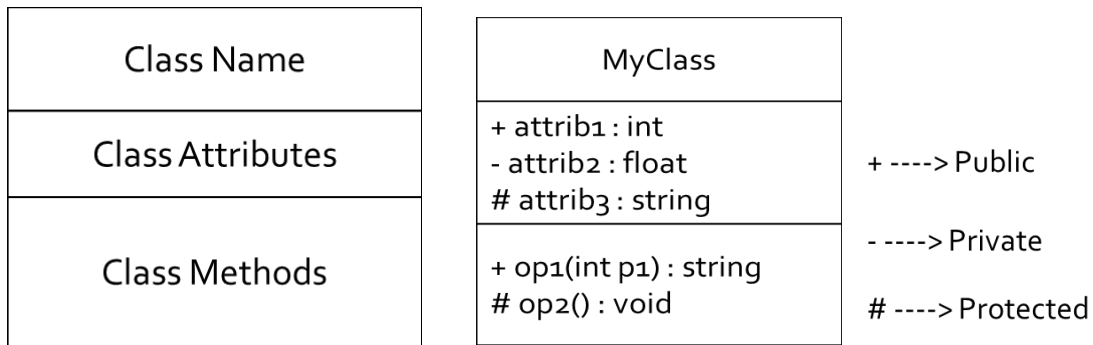
Procedure:

A class diagram is a static diagram. This describes the structure of the system by showing the system's classes, their attributes, methods and relationship between objects.

Class Diagram Notations

In UML a class is represented as a rectangle. It has three parts in it.

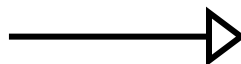
- Class Name
- Class Attributes
- Class Methods (Operations)



When objects/methods of one class use objects/methods from another class they are defined using relationship.

Types of relationship

- Inheritance
 - Association
 - Aggregation
 - Composition
 - Dependency
- Inheritance
 - Represents "is a" relationship
 - Association
 - A structural link between two classes



- Aggregation
 - A special type of association. It represents a “part of” relationship



- Composition
 - A special type of aggregation. In this if one part is deleted then the other part also gets discarded



- Dependency
 - It depicts the relationship between two classes, where a change in one class cause change in another class



Result:

Thus UML Class diagram for student management system is drawn successfully.

Ex2:

