### LAB 2

STRUCTURE DIAGRAM: READING, WRITING AND DEBUGGING LAKSHYA TANDON

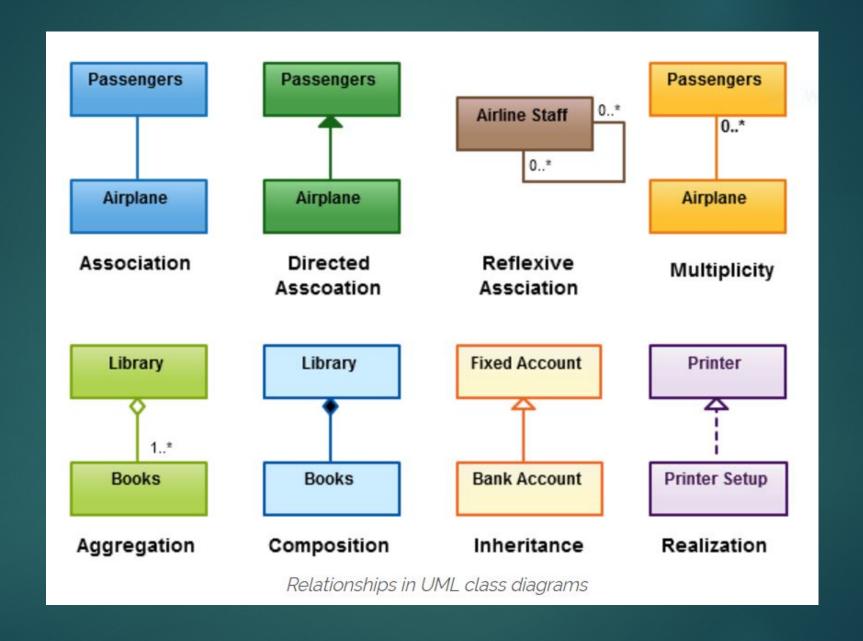
### Structure Diagrams

- Shows the breakdown of system to its lowest manageable levels.
- Used to represent classes, relationship between types.
- ▶ The components are arranged in form of a tree.

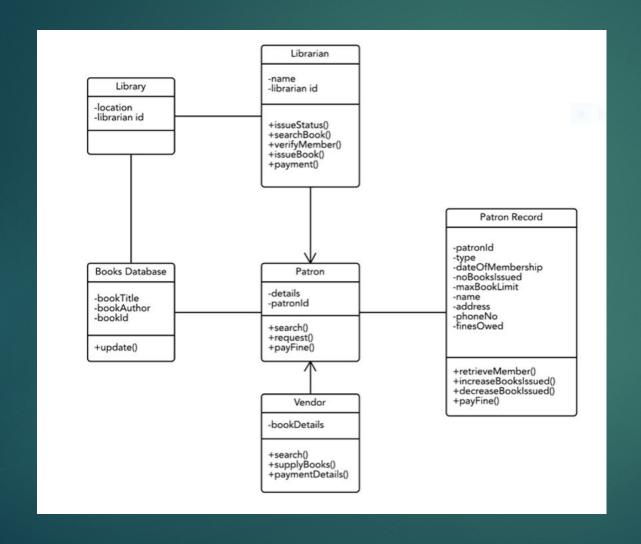
# Relationships presented by these diagrams

#### Class Diagram

- Inheritance
- ▶ Dependency some set of UML elements are dependent in other UML Elements. Also called as supplier client relationship.
- Association Defines dependency but a much stronger dependency.
- Aggregation it is an association that represents the part whole or part of relationship. Represented by "has a" relationship. Eg: Professor has a class to teach.
- Composition used when representing real world whole part relationship. Eg: Engine is a part of car.
- Multiplicity Many to one or many to may relation.
- ▶ **Reflexive** Relation into itself
- These diagrams are represented using Unified Modeling Language.



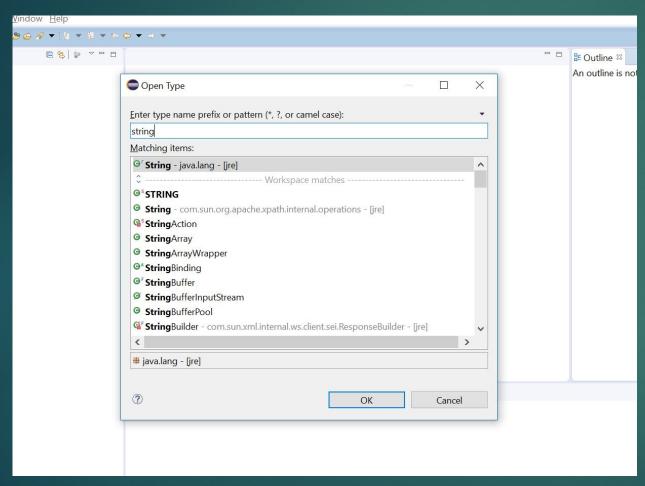
### Example of a class diagram



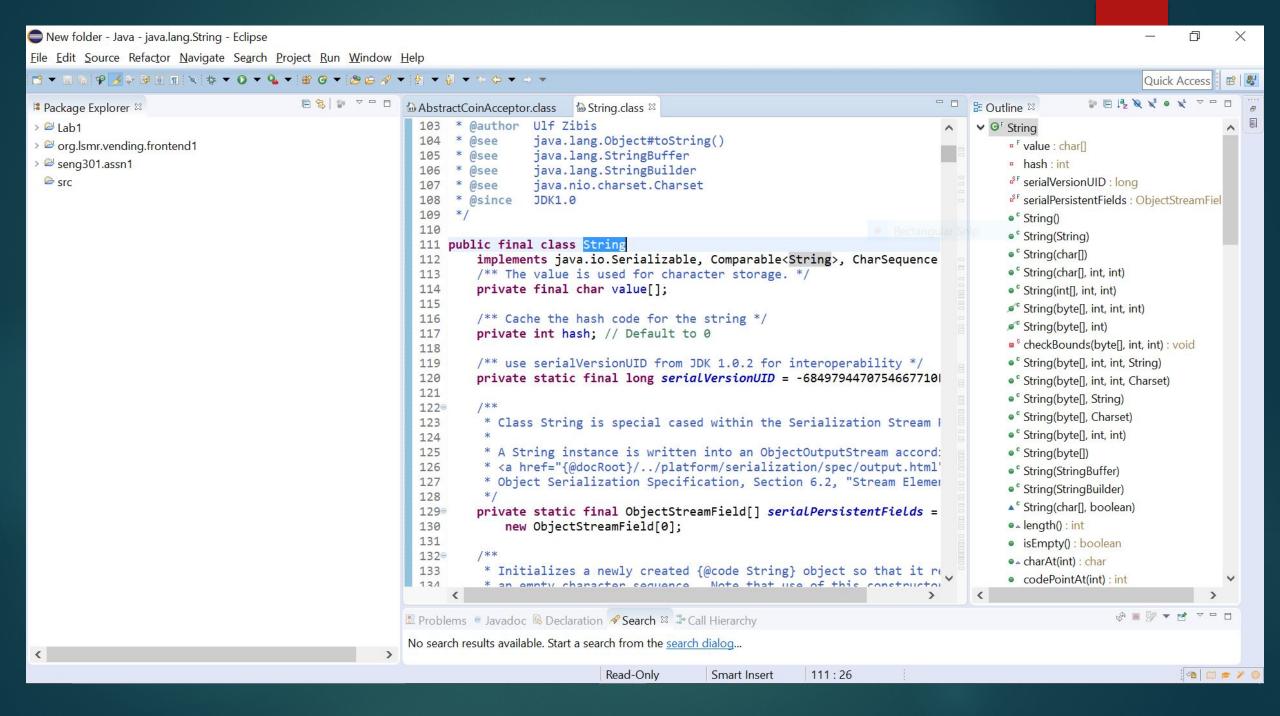
# Reading code of a class file – java.lang.string

- Open eclipse
- ► Go to Navigate → Open task
- Or press ctrl+shift+T in windows environment

#### You'll see this window

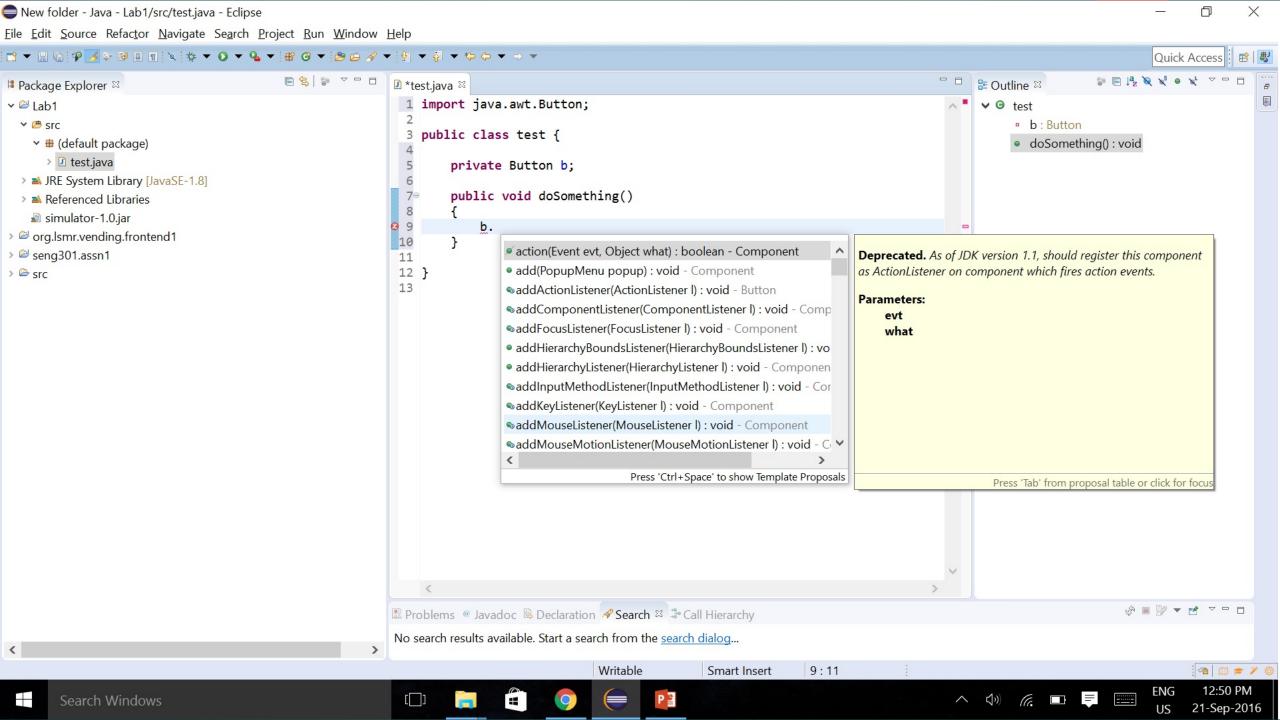


Click OK



#### Writing Code – Auto Completion

- ► Ctrl + Space in Windows environment.
- Command + Space in Mac environment.



## You can continue with your Lab exercise