



## CSE 215L: Programming language II Lab

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Sec: 06

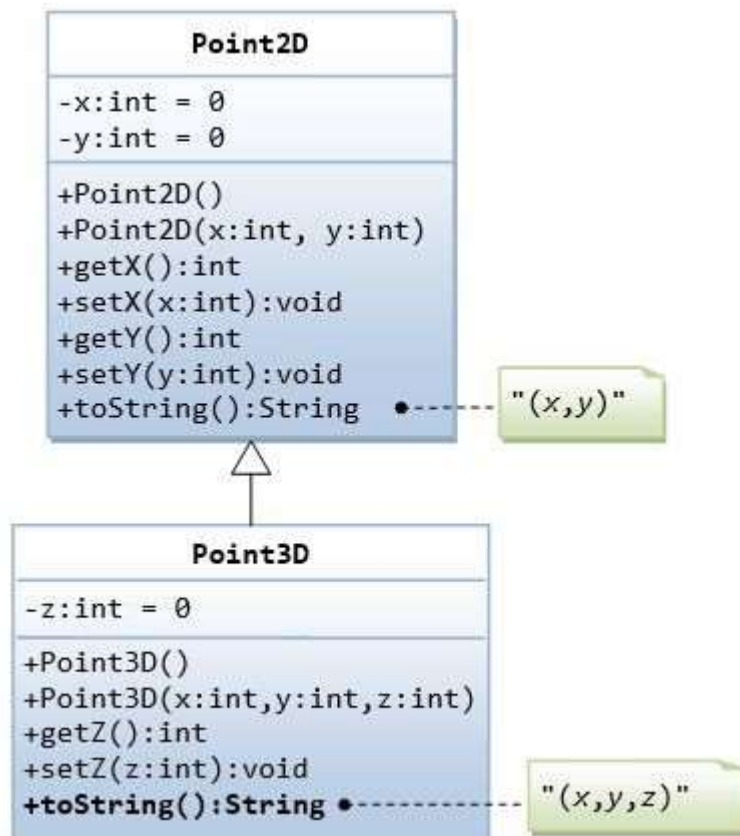
Lab - 08 [Inheritance], Spring-2021

Lab Instructor: Salsavil Kayyum

### Objective:

- To define a subclass from a superclass through inheritance
- To invoke the superclass's constructors and methods using the super keyword
- To override the instance methods in the subclass

**Task-01:** Implement the following classes and test their methods.



- Inheritance has two purposes - reuse existing code, reduce code duplication.
- When common traits are found among two classes, define one as general/base/parent class and the other as specific/child class. The child class inherits the properties of the parent class and adds its own properties.
- `super()` is used to call the parent constructor to pass the attributes of the parent class.

- The super keyword itself indicates the parent object.
- Java doesn't support multiple inheritances. It supports multi-level inheritance.
- When a child redefines a method from the parent class, it's called method overriding.

**Task-02:** Implement the following classes and test their methods.

