

## Object-Oriented Programming Lab Session #3

### I. References

- Oracle Java Documentation: <https://docs.oracle.com/javase/tutorial/java/1andI/index.html>
- Inheritance in Java Tutorial: [https://www.tutorialspoint.com/java/java\\_inheritance.htm](https://www.tutorialspoint.com/java/java_inheritance.htm)

### II. Exercises

You are required to implement the following design as well as a main() method in another class to test your implementation:

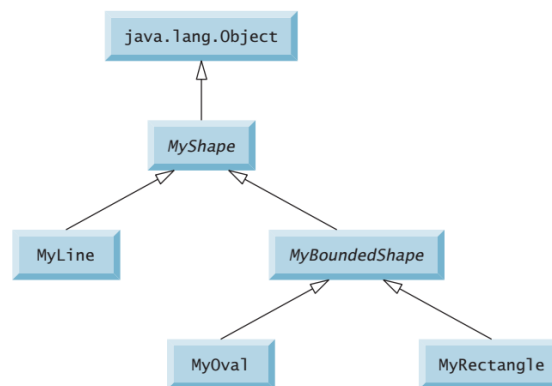
#### 1. Shapes (25 points)

Implement the hierarchy below where

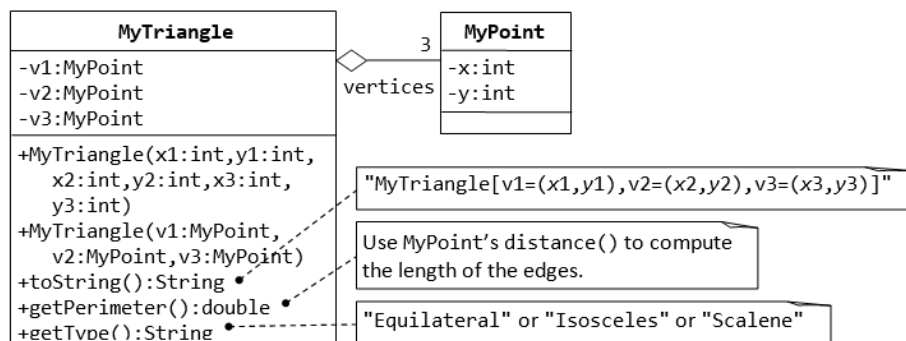
- MyShape is a class with a Draw method that does nothing,
- MyBoundedShape is a class with a GetArea method that does nothing,
- MyLine, MyOval, MyRectangle are classes

In the main() method,

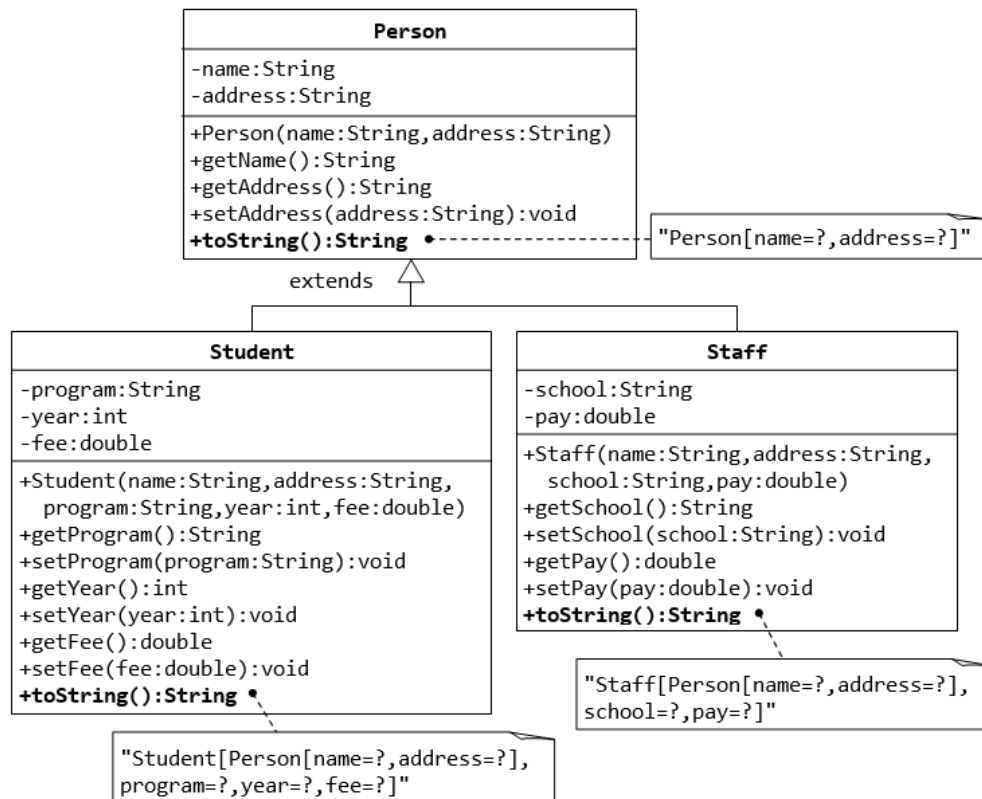
- Ask the user to select 5 shapes and input their dimension
- Draw selected shapes
- Compute and show the area of selected shapes if they are abounded shape



#### 2. Triangle and Point (25 points)



### 3. Person, Student & Staff (25 points)



### 4. Point2D and Point3D (25 points)

