# Object-Oriented Programming Lab Session #3

#### I. References

- Oracle Java Documentation: https://docs.oracle.com/javase/tutorial/java/IandI/index.html
- Inheritance in Java Tutorial: 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 a another class to test your implementation:

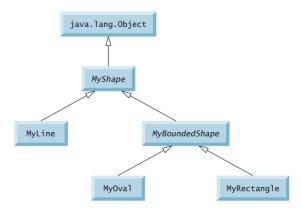
# 1. Shapes (25 points)

Implement the hierarchy below where

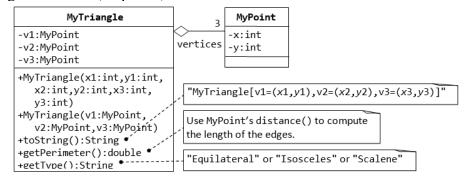
- MyShape is an abstract class with an abstract Draw method,
- MyBoundedShape is an abstract class with an abstract GetArea method,
- MyLine, MyOval, MyRectangle are concrete classes

In the main() method,

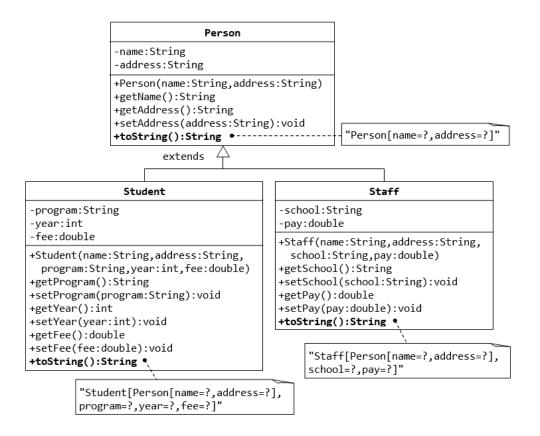
- Ask user to select 5 shapes and input their dimension
- Draw selected shapes
- Compute and show area of selected shapes if they are a bounded shape



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



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



# 4. Point2D and Point3D (25 points)

