Object Oriented Programming 1 Spring 18-19 Lab Manual: 06

Lab Task:

- 1. Lab Review, and start with unfinished classes from Lab 05
- 2. Develop Java classes

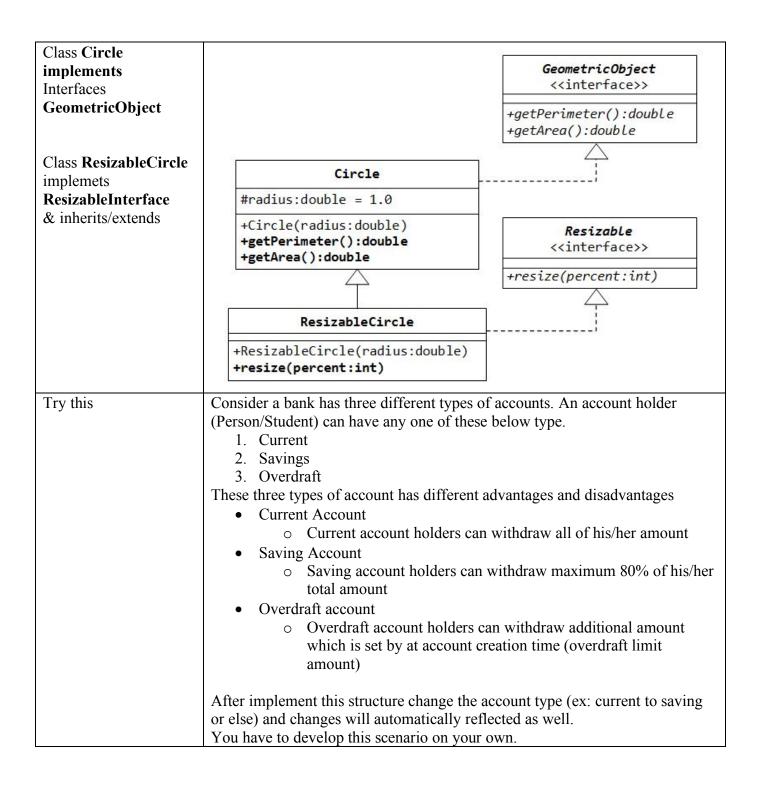
Note: Student must follow the name of class, member variables, and functions.

And students should use fully qualified names for these, as well camel notions. And the syntax alignment has to be as it should be.

1. Lab 05 Classes – Review:

2. Develop Java Classes:

Test Interface 1 **Interface:** BasicCalculatorInterface which has these below abstract methods • int sum(int x, int y) • int sub(int x, int y) • int multiplication(int x, int y) • int division(int x, int y) ScientificCalculatorInterface • int XtoY(int x, int y) • Other scientific methods that you find best fit for you Develop necessary class to implement these two interfaces and test from main method. Classes MovablePoint <<interface>> Movable & MovableCircle implements +moveUp():void MovableInterface. +moveDown():void +moveLeft():void +moveRight():void MovablePoint MovableCircle -radius:int ~x:int 1 ~y:int -center: MovablePoint ~xSpeed:int +MovableCircle(x:int,y:int ~ySpeed:int xSpeed:int,ySpeed:int, +MovablePoint(x:int,y:int, radius:int) xSpeed:int,ySpeed:int) +toString():String +toString():String +moveUp():void +moveUp():void +moveDown():void +moveDown():void +moveLeft():void +moveRight():void +moveLeft():void +moveRight():void



Special Note: Do not code interface and class on same .java file. Use separate files for interfaces. The interface should be public.