Question 1:

GeometricObject
<<interface>>
+getPerimeter():double
+getArea():double

Circle
#radius:double   # for protected
+Circle(radius:double)
+toString():String
+getPerimeter():double
+getArea():double

Resizable
<<interface>>
+resize(percent:int):void

ResizableCircle
+ResizableCircle(radius:double)
+toString():String
+resize(percent:int):void   radius *= percent/100.0
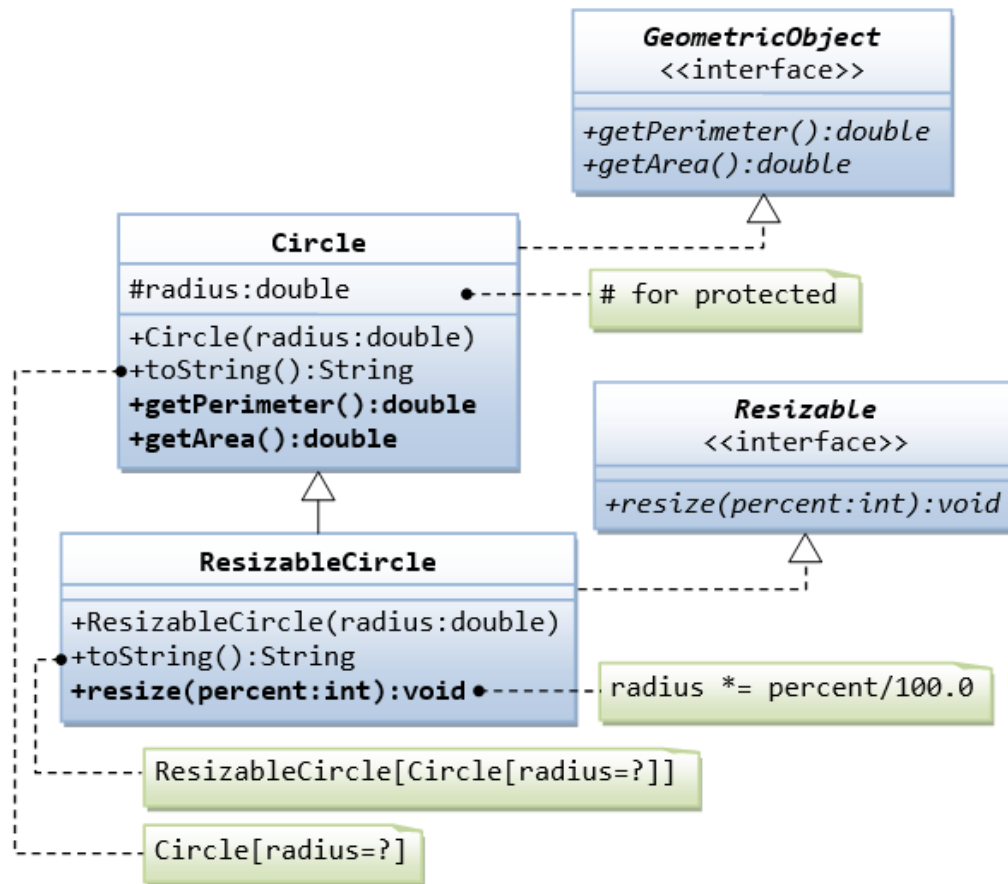
ResizableCircle[Circle[radius=?]]

Circle[radius=?]

1. Write the `interface` called `GeometricObject`, which declares two `abstract` methods:
   `getParameter()` and `getArea()`, as specified in the class diagram.
2. Write the implementation class `Circle`, with a protected variable `radius`, which implements
   the interface `GeometricObject`.
3. The class `ResizableCircle` is defined as a subclass of the class `Circle`, which also
   implements an interface called `Resizable`, as shown in class diagram. The interface
   `Resizable` declares an `abstract` method `resize()`, which modifies the dimension (such as
   `radius`) by the given percentage. Write the interface `Resizable` and the class
   `ResizableCircle`.
4. Write a test program in main function to test the methods defined in `Circle`.
5. Write a test program in main function to test the methods defined in `ResizableCircle`.