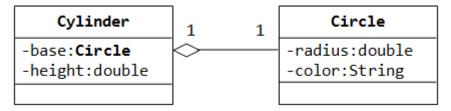
## 5.2 Ex: The Circle and Cylinder Classes Using Composition



Try rewriting the Circle-Cylinder of the previous exercise using *composition* (as shown in the class diagram) instead of *inheritance*. That is, "a cylinder is composed of a base circle and a height".

```
public class Cylinder {
   private Circle base;  // Base circle, an instance of Circle class
   private double height;

   // Constructor with default color, radius and height
   public Cylinder() {
      base = new Circle(); // Call the constructor to construct the Circle
      height = 1.0;
   }
   ......
}
```

Which design (inheritance or composition) is better?