



CSE 215: Programming Language II Lab

Lab – 11

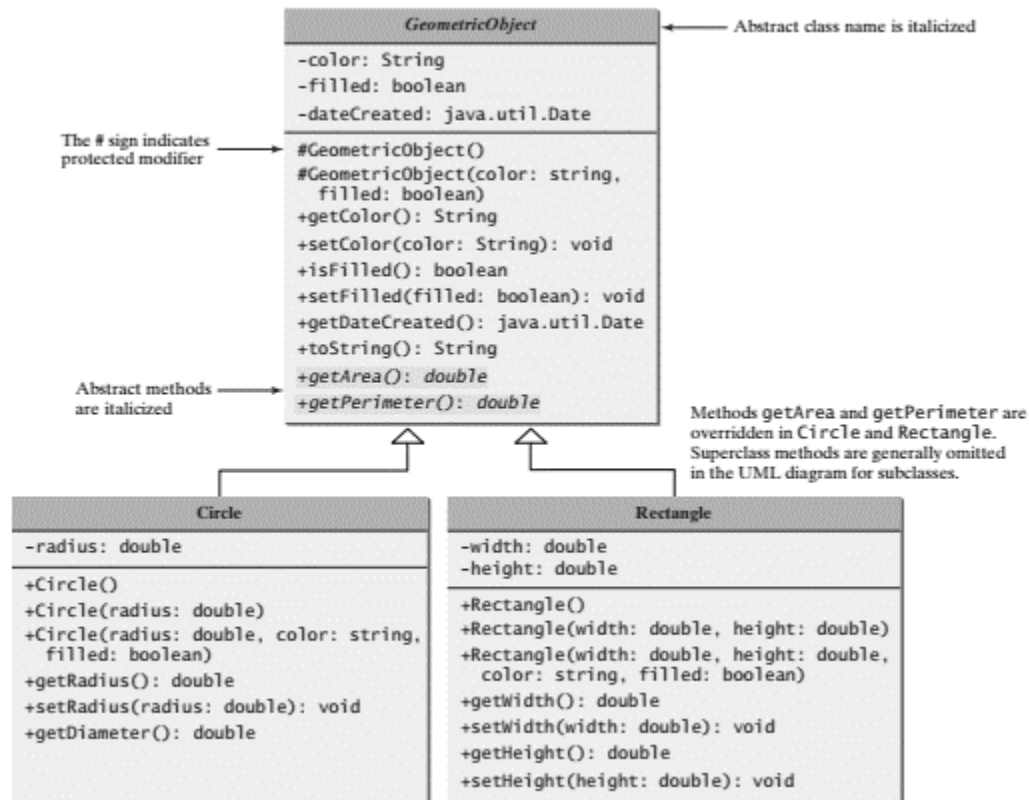
Abstract Class

Objective:

- To understand abstract class and its usage
- To utilize abstract method to ensure reusability of existing code

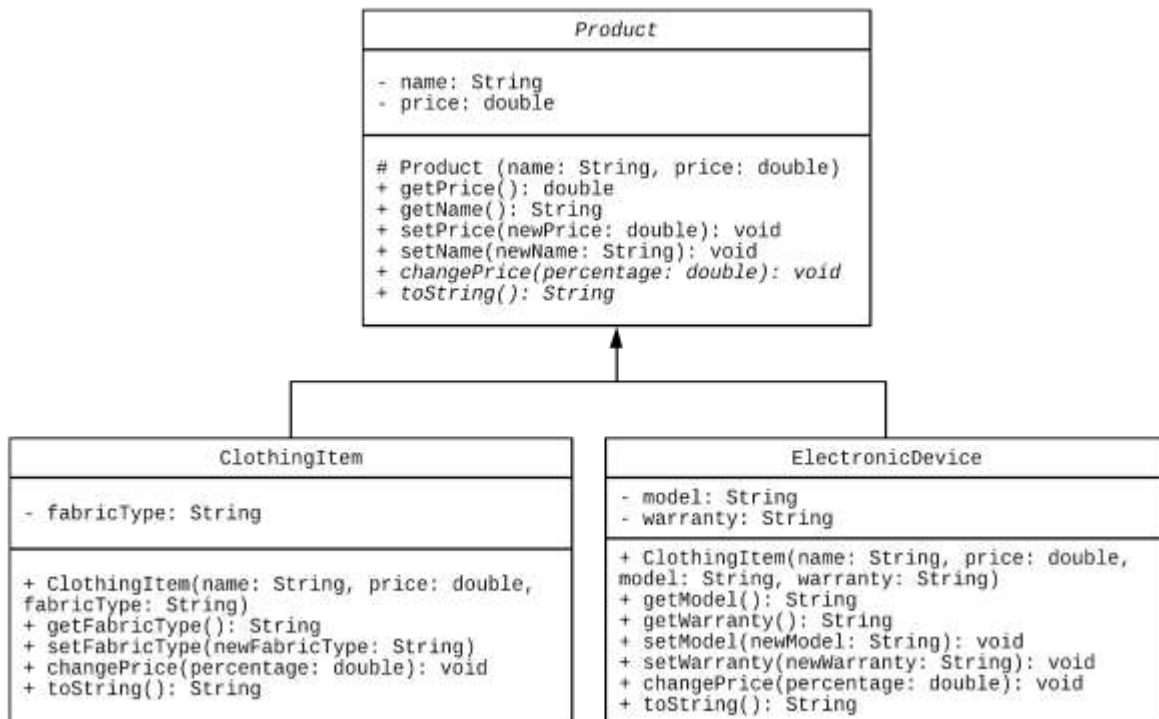
An abstract method is a method that is declared without an implementation (without braces, and followed by a semicolon). An abstract class is a class that is declared abstract. It may or may not include abstract methods. Abstract classes cannot be instantiated, but they can have subclasses.

Abstract method	Abstract class
Modifier abstract return-type methodName(); public abstract double getArea();	<pre>public abstract class Shape { // declare fields and non //abstract methods public abstract double getArea(); }</pre>



Lab Task

Implement the following classes:



****take public data fields instead of private in Product class.**

From main method, implement the following tasks:

- Create a new **ClothingItem** object p1 with reference type **ClothingItem**.
- Create a new **ElectronicDeice** object p2 with reference type **ElectronicDevice**.
- Add 10% tax with p2 and 20% discount with p1.
- Now, create an **ArrayList** of type **Product** and add p1, p2 in that ArrayList.
- Invoke **toString()** method for all elements in ArrayList.