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Software Development I

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Lab VIII Questions

**1.6 Explain why the output of your BillfoldTest program demonstrates polymorphism.**

Every Card object that is added to the Billfold object is a type of Card and each of these cards could refer to any subtype that is inherited from the Card class. The format() method of a card will invoke the method from the actual object rather than a Card object, this is ultimately called a Runtime polymorphism.

**1.8 The ID card and the phone card don’t expire. What should you do to reflect this fact in your implementation?**

Do not override the isExpired() method in the subclass IDCard and CallingCard (which is being referred to as phone card in the problem) as the parent class Card already provides the behavior of whether or not it is expired. We must make sure that if there is a field in the parent class called isExpired, then it should be private and there should be no setter for it. As another option, we can implement the superclass as an abstract class to then make the method isExpired as an abstract.