

## **Critical Thinking Question**

- 1. Explain the difference between a has-a and is-a relationship among classes.**

Has-a is a composition relationship while Is-a is an inheritance relationship.

- 2. If a base class has a public method go() and a derived class has a public method stop(), which methods will be available to an object of the derived class?**

go() and stop() are methods that both will be available.

- 3. Compare and contrast implementing an abstract method to overriding a method.**

Abstract method is a method that MUST implement and Overriding is an optional method that modifies the existing method.

- 4. Compare and contrast an abstract class to an interface.**

An abstract class can have fields with some implementation while interface only methods signatures and no fields.