Chapter 4 Assignment

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**4.5)** What is the purpose of the operator new? Explain what happens when this keyword is used in an app.

“new” creates a new object of the specified class using an object-creation expression and then assigns it to a variable.

**4.6)** What is a default constructor? How are an object’s instance variables initialized if a class has only a default constructor?

A default constructor is provided by the compiler when a constructor is not specified. They are initialized to their default values(ex. Int=0, Boolean=true, etc)

**4.7)** Explain the purpose of an instance variable.

Instance variables are attributes of a class that are specific to a class and are carried through their lifetime. They are unique to the class and can be changed for that class.

**4.8)** Explain why a class might provide a property for an instance variable?

It allows an outside application to retrieve a value that may have been set to private within the class without modifying a value or formula in an unwanted way.

**4.14)**