**Javadoc Practice**

**Directions:** Practice creating Javadoc comments by creating the two classes below. Once you have created the classes, add Javadoc comments above each method and constructor. Also, add a Javadoc comment at the top of the class that describes the class and lists yourself as the author. Remember to use the @param, @return, and @author tags.

1. Create an abstract Athlete Class with:
	1. Instance Variables
		1. String name
	2. Constructors
		1. Athlete(“Crone”)
		2. Athlete() – sets name to null
	3. Accessor Methods/Mutator Methods
	4. Other Methods
		1. toString() - Athlete: Crone
2. Create a Sprinter Class that extends the Athlete Class with:
	1. Instance Variables:
		1. double time1, double time2, double time3 (Three 100-meter dash times)
	2. Constructors - \*\*Must Show *super* call
		1. Sprinter(“Crone”, 11.5, 11.7, 12.01)
		2. Sprinter() – initializes all times to 0 and name to null
	3. Accessor/Mutator Methods
	4. Other Methods
		1. *getAverageTime() –*returns the average of the three run times
		2. *toString():*

Sprinter: Crone

 Time1: 10.5

 Time2: 10.5

 Time3: 10.5

1. In a *main* Method, instantiate a new Sprinter and ensure that each of your methods work correctly.
2. Add Javadoc comments to each accessor and mutator. Example)

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 \* Accessor

 \* **@return** returns time3 instance variable

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 **public** **double** getTime3(){

 **return** time3;

 }

1. Add Javadoc comments to each constructor. Example)

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 \* Constructor 2

 \* **@param** nm name of the new athlete

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 **public** Athlete(String nm){

 name = nm;

 }

1. Add Javadoc comments to the top of the program below the import statements that state your name and the purpose of the program. Example)

**package** Javadoc;

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 \* The Athlete class provides a starting point for specific athletes.

 \* **@author** Mr. Crone

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