**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

\*/

**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

\*/

**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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