AP (	Con	ıpu	ter	Sci	ence
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Name	Per	

1)	Write the definition and give an example of syntax (if applicable) for the following vocabulary words and concepts:
	class
	object
	constructor
	method
	parameters (know how primitive types and objects are passed)
	static variable
	static method
	null reference
	== vs equals()
	interface
	Comparable interface
	compareTo()
	toString()
	exceptions (ArithmeticException, IllegalArgumentException, NullPointerException)
	polymorphism

2) Suppose we want to create a class to hold test information about a student. A student has these attributes:

The student name.

encapsulation

inheritance

abstraction

An identification number that is unique to each student. The identification numbers are positive integers starting at 1000 and assigned in increasing numerical order as the Student objects are created. Three test scores.

When a new Student object is created, it must be assigned an identification number that will be the next consecutive identification number available. The new student is created with a student name and three test scores. The only operations valid for a Student object are:

Retrieve the identification number for the student.

Retrieve the student's name.

Compute and return the average test score.

A toString method which returns a formatted string representing the object (name, id, test1, test2, test3 and average).

Write the Student class on a separate piece of paper. Remember to:

Choose appropriate variable and method names.

Use Javadoc comments including <code>@param</code> and <code>@return</code>.

Be consistent with information-hiding principles.