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Unit 05 Review Questions 1

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b)	In the context of object-oriented programming, what is a field ?
c)	In the context of object-oriented programming, what is a <i>method</i> ?
d)	Explain how the private modifier affects access to <i>fields</i> ?
-	
e)	Explain how the private modifier affects access to <i>methods</i> ?
f)	What is the purpose of the <i>constructor</i> in Java?
g)	What is the purpose of a toString method in Java?
h)	What is the purpose of an <i>accessor</i> method in Java?
i)	What is the purpose of an <i>mutator</i> method in Java?
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j)	What is the benefit of a <i>mutator</i> method over making a field public?
k)	When reading the declaration of a field in Java, how are <i>class</i> fields distinguished from <i>instance</i> fields?
2.	Consider the following class definition:
	1 public class Vector {
	<pre>public double x; public double y;</pre>
	4 }
a)	How does Java treat classes that have no explicit constructor defined?
b)	Given the above Vector class, write a line of code that will create a new object, v, of type Vector.
c)	If a constructor for the Vector class were to be explicitly defined, and take two parameters, each parameter of type double, in order to initialize the fields x and y, the line of code written in part (b) would no longer work. Why?
d)	If a two-parameter constructor were explicitly defined, as in part (c), but we still wish to be able to call a zero-parameter constructor, as in part (b), what is the solution?