Module 6 quiz on Object Oriented Programing concepts

latest submission grade 100%

١.		1 / 1 point
	An object is	
	The grouping together of data and behavior to create a single entity	
	The blue print for creating classes	
	A way to hide implementation details from the user	
	A sequence of characters	
	✓ Correct	
<u>2</u> .		1 / 1 point
	A typicial object oriented program	
	uses objects to model the behavior of the ints, chars and boolean variables used in the program.	
	uses methods and primitive data types to perform most of its useful behavior.	
	uses objects to perform most of its useful behavior.	
	must consist of at least four classes.	
	Correct	

3. 1 / 1 point

An example of abstraction would be

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	supplying the technical drawings with a digital camera.	
	only selling digital cameras to experienced users.	
	supplying batteries with a digital camera.	
	Correct	
4.		1 / 1 point
	An example of an instance of the City class would be	
	the city of Philadelphia.	
	the variables Name, Latitude, Longitude, Country and Population.	
	the plans for a city.	
	the methods to update the city's population and to calculate the distance to other cities.	
	✓ Correct	
5.	A class file is (select all that apply)	1 / 1 point
	a file containing a single program or module.	
	Correct You have already written several class files of this type in previous modules of this MOOC.	
	a template or blueprint for an object.	
	 Correct This is the definition of a class file in the context of Object Oriented Programming. 	

	a collection of objects.	
	a collection of keywords.	
6.	A String object is (select all that apply)	1 / 1 point
	a sequence of characters.	
	 Correct This describes the structure or state of a String. 	
	similar to primitive data types in some respects.	
	Correct There are many similarities between Strings and primitive data types, not only because all objects have some things in common with primitive data types but also because String objects have a few shortcuts, like how they are declared. One reason is because variables of String type are used so often, the Java language included a few conveniences.	
	a reference to a memory location where data is stored.	
	Correct Because a String is an object, the state is not stored in the variable itself, but is stored elsewhere in memory. One way to remember this concept is to visualize a <i>stack</i> in memory where variables are stored. All variables are expected to be a given size. Strings are of varying sizes and so, are stored elsewhere.	
	a primitive data type.	
7.	Select all of the Java statements that would compile (would not cause an error).	1 / 1 point
	<pre>1 out.println("Hello kids" - "kids");</pre>	



```
1 String str1 = "hi";
2 String str2 = "HI";
3 out.println(str1 == str2);
```

Correct

Although comparing two Strings with the "==" operator is not ideal (in most cases we really want to determine if the two Strings have the same sequence of characters), it is syntactically permissible and will not cause a compile error. Beware!

```
1 String str1 = "Good programming";
2 out.println(str1.concat(18.9));
```

/

```
1 out.println("Hello" + " programmers!");
```

✓ Correct

/

```
String str1 = "hi";
String str2 = "HI";
out.println(str1.equals(str2));
```

Correct

This is the correct way to determine if two Strings have the same sequence of characters.

8. Given the following objects

1 / 1 point

```
1 String str1 = "held";
2 String str2;
```

How could you create the string herald?



```
1 str2 = str1.substring(0,2);
2 str2 = str2 + "ra";
3 str2 = str2.concat(str1.substring(2,4));
```

```
1 str1 = str1.substring(0,2) + "ra";
2 str1 = str1 + str1.substring(2,4);
```

```
1 str2 = str1 + "ra";
```

```
1 str1.substring(0,2);
2 str2 + "ra";
3 str2.concat(str1.substring(2.4));
```

Correct

Here we *insert* "ra" into the middle of the string in three steps.