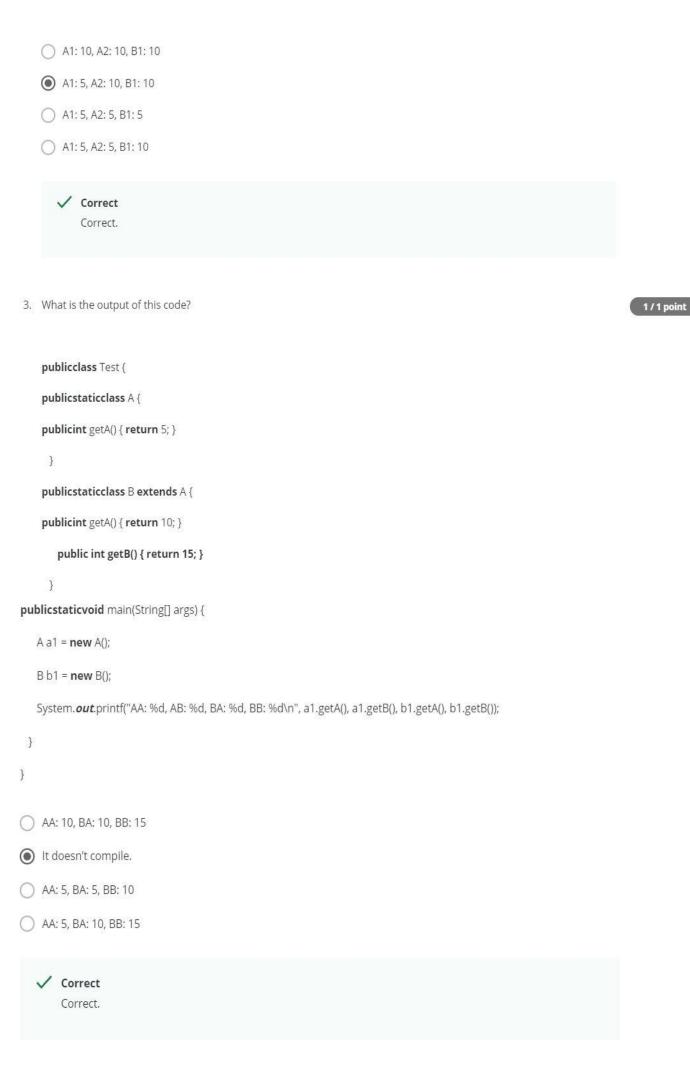
## **Assessment**

## LATEST SUBMISSION GRADE

100%

1.	Polymorphism refers to	1/1 point
	<ul> <li>The ability to cast a reference to a different type.</li> <li>The ability to have multiple inheritance</li> <li>The ability for many classes to be invoked through a common interface</li> <li>The ability for a class to implement poly (multiple) interfaces</li> </ul>	
	✓ Correct Correct.	
2.	What is the output of this code?	1/1 point
	publicclass Test {	
	publicstaticclass A {	
	<pre>publicint getA() { return 5; }</pre>	
	<u>}</u>	
	publicstaticclass B extends A {	
	<pre>publicint getA() { return 10; }</pre>	
	)	
	<pre>publicstaticvoid main(String[] args) {</pre>	
	A a1 = <b>new</b> A(), a2 = <b>new</b> B();	
	B b1 = <b>new</b> B();	
	System. out.printf("A1: %d, A2: %d, B1: %d\n", a1.getA(), a2.getA(), b1.getA());	
	}	
	}	



```
publicclass Test {
publicstaticclass A {
publicint getA() { return 5; }
 }
publicstaticclass B extends A {
publicint getA() { return 10; }
   public int getB() { return 15; }
publicstaticvoid main(String[] args) {
   A a1 = new A();
   B b1 = new B();
   System. out. printf("AA: %d, BA: %d, BB: %d\n", a1.getA(), b1.getA(), b1.getB());
 }
It doesn't compile.
AA: 5, BA: 5, BB: 10
AA: 10, BA: 10, BB: 15
AA: 5, BA: 10, BB: 15
     / Correct
        Correct.
```

5. When is polymorphism the most important?

1/1 poir

- When we need to process a whole group of similar objects.
- When dealing with a single object.



Right.

6.	is a powerful technique for grouping objects by inheritance or the implementation of common interfaces.	1/1 point
	○ Method	
	References  Polymorphism	
	✓ Correct Correct.	
7.	Which of the following codes will follow these steps in order when executing?	1/1 point
	1. Java creates a new entry in the reference table.	
	2. Java enters the type for the new entry as <b>Car</b> .	
	3. Java enters the name of the new entry as <b>myCar</b> .	
	4. Java sets up a block of memory to store the attributes of a <b>SportsCar</b> and enters the address of this memory in the attribute block field of the new entry.	
	5. Java sets up a block of memory to store the methods of a <b>SportsCar</b> and enters the address of this memory in the method block field of the new entry.	
	myCar SportsCar = new Car ();	
	Car myCar = new SportsCar ();	
	new Car = myCar SportsCar ();	
	✓ Correct That's right!	
8	. In creating object references, if the method you are calling is NOT part of the object or one of its superclasses, what will happen?	1/1 point
	A compiler error will be generated.	
	Java will store the method and add the address in the method block field of the new entry.	
	The method will be created in the method block automatically.	
	✓ Correct Right.	

9. You should only refer to classes when necessary, like when using	1/1 point
○ interfaces	
O members	
● new	
✓ Correct Correct.	
10. True or false: References, including members, local variables, and parameters, should be defined in terms of interface	es. (1/1 point)
True	
○ False	
✓ Correct Right!	