Fall 2025-2026 CSSE 220

## CSSE 220 – Object-Oriented Software Development Rose-Hulman Institute of Technology

## Worksheet 13

Nam	ne (Print):	ection:
1.	Type of Programming:	
	: You call methods in sequence	
	: Your code reacts to events when the	ey occur
2.	Name the three main parts of the event model:	
	1)	
	2)	
	3)	
3.	. Explain in one sentence: How does a custom ActionListener	promote better encapsulation?
4.	Select from the following: IS-A, HAS-A, DEPENDS-ON	
	1) Dog implements Animal:	
	2) Class Zoo has a field - List< $Animal >:$	
	3) Class Car passes a method drive() from the class Drivable in	to its method:
	4) Dog extends Animal:	
5.	. Inheritance is a mechanism when a automethods of its by using the extends keywo	
6.	. What is the name of the top most class in Java:	

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## 7. Select the correct statements:

1) A subclass inherits all fields and methods from its superclass, but cannot directly access private members

- 2) A subclass does not inherit constructors from its superclass
- 3) A subclass must invoke a superclass constructor (explicitly or implicitly) when its own constructor runs
- 4) A subclass can override non-static, non-final methods that are public or protected
- 5) A subclass cannot override private, static, or final methods from the superclass.

## 8. Invoke superclass:

- 1) You have a superclass method drive(): \_\_\_\_\_
- 2) You have a superclass constructor Animal(String name): \_\_\_\_\_
- 9. Write the output for each method below:

```
class Animal {
2
      void move() { System.out.println("Animal is moving."); }
3
      void eat() { System.out.println("Animal is eating."); }
4 }
5
6 class Dog extends Animal {
7
      @Override
8
      void move()
      { System.out.println("Dog is running."); }
9
      void bark() { System.out.println("Dog is barking."); }
10
11 }
12
13 public class Geeks {
      public static void main(String[] args)
14
15
16
          Dog d = new Dog();
          d.move(); // Output 1 : _____
17
18
          d.eat(); // Output 2 : _____
          d.bark(); // Output 3 : _____
19
20
      }
21 }
```

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