PART 01:

- 1. Create a new class called 'Item' with two protected instance variables (private variables), an integer variable called 'location', and a String variable called 'description'.
- 2. Add a constructor method for the Item class that takes an integer and a String as arguments (in that order).
- 3. The constructor should assign the value of these parameters to the corresponding instance variables.
- 4. Add getter and setter methods for the location and description variables.
- 5. Add another class called Monster and make the Monster class a sub-class of the Item class.
- 6. Add a constructor method to the Monster class that takes an integer and a String argument just like the Item class constructor.
- 7. Use these arguments to call the Item super class constructor from within the Monster class constructor so that the instance variables in the superclass are instantiated correctly.

Item cllass

```
package com.mycompany.itemobj;

public class item
{
    private int location;
    private String description;

public item(int l,String d)
    {
        location=l;
        description=d;
}
```

```
}
//setter method
public void setlocation(int lo)
{
    location=lo;
}
public void setdescription(String des)
{
    description=des;
}
//getter method
public int getlocation()
{
    return location;
}
public String getdescription()
{
    return description;
}
```

Monster class

```
package com.mycompany.itemobj;
public class Monster extends item
{
   public Monster(int location, String description)
   {
      super(location, description);
   }
}
```

PART 02

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1.	Which of these a) upper	keywords is ub) super	used to r c) this			pase class from a sub classes the mentioned	ass?
3.	The modifier was a) public	hich specifies b) <u>pr</u>		e member c) protec	-	oe accessed in its own o	class is
4.	Which of these a) Object c) Interfaces	e is a mechani	sm for n	b)) <u>Packages</u>	control of a class and it the Mentioned.	s content?
5.	Which of the for a) import pkg. c) import pkg.*		rect way	of import b) Import d) Import	t pkg.	tire package 'pkg'?	
6.	Which of these object? a) CHARAT() c) <u>charAt()</u>	e method of cl	ass Strin	b)	o extract a) charat()) CharAt()	a single character from	a String
7.	Which of these a) get() c) lengthof()	e method of cl	ass Strin	b	o obtain lo) Sizeof()) <u>length()</u>	ength of String object?	

PART 03: Fill in the blanks using appropriate term.

- 1. Real-world objects contain states and behavior.
- 2. A software object's state is stored in instant variables.
- 3. A software object's behavior is exposed through methods.
- 4. Hiding internal data from the outside world, and accessing it only through publicly exposed methods is known as data <u>encapsulation</u>.
- 5. A blueprint for a software object is called a <u>class</u>.
- 6. Common behavior can be defined in a <u>parent class</u> and inherited into a <u>sub class</u> using the <u>extends</u> keyword.
- 7. A collection of methods with no implementation is called an <u>interface</u>.
- 8. A namespace that organizes classes and interfaces by functionality is called a package.
- 9. The term API stands for <u>Application Programming Interface</u>.