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## LAB 01

```
1. // Item class
public class Item {
    protected int location;
    protected String description;

    // Constructor
    public Item(int location, String description) {
        this.location = location;
        this.description = description;
    }

    // Getter for location
    public int getLocation() {
        return location;
    }

    // Setter for location
    public void setLocation(int location) {
        this.location = location;
    }

    // Getter for description
    public String getDescription() {
        return description;
    }

    // Setter for description
    public void setDescription(String description) {
```

```

        this.description = description;
    }
}

// Monster class (subclass of Item)
public class Monster extends Item {
    // Constructor
    public Monster(int location, String description) {
        super(location, description);
    }
}

```

2. 1.B

3.B

4.B

5.C

6.C

7.D

3.

1. Real-world objects contain **state** and **behavior**.

2. A software object's state is stored in **instance 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 **encapsulation**.

5. A blueprint for a software object is called a **class**.

6. Common behavior can be defined in a **superclass** and inherited into a **subclass using the extends** keyword.
7. A collection of methods with no implementation is called an **interface**.
8. A namespace that organizes classes and interfaces by functionality is called a **package**.
9. The term API stands for **Application Programming Interface**.