

## **Practical 2**

### **Part 1**

1)

```
public class Item {  
    private int location;  
    private String description;  
  
    public Item(int location, String description) {  
        this.location = location;  
        this.description = description;  
    }  
    // Getter and Setter methods for location and description  
    public int getLocation() {  
        return location;  
    }  
    public void setLocation(int location) {  
        this.location = location;  
    }  
    public String getDescription() {  
        return description;  
    }  
    public void setDescription(String description) {  
        this.description = description;  
    }  
}  
  
public class Monster extends Item {  
    // Constructor for the Monster class  
    public Monster(int location, String description) {  
        super(location, description);  
    }  
}
```

## **Part 2**

- i) Super
- ii) Private
- iii) Package
- iv) import pkg.\*
- v) charAt()
- vi) length()

## **Part 3**

1. Real-world objects contain attributes and behavior.
2. A software object's state is stored in an instance variable.
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 parent class and inherited into a child class 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.