Lab sheet 1

Part 1

Item class

```
package com.mycompany.class1;
public class item
  protected int location;
  protected String description;
  public item(int location, String description)
  {
    this.location = location;
    this.description = description;
  }
  // Getter and Setter methods for location
  public int getLocation()
    return location;
  }
  public void setLocation(int location)
    this.location = location;
  }
  // Getter and Setter methods for description
```

```
public String getDescription()
{
    return description;
}

public void setDescription(String description)
{
    this.description = description;
}
```

Monster class

```
package com.mycompany.class1;

public class monster extends item
{
   public monster(int location, String description)
   {
      super(location, description);
   }
}
```

Part 2

- 1. b) super
- 2. b) private
- 3. b) Packages
- 4. c) import pkg.*
- 5. c) charAt()
- 6. d) length()

Part 3

Fill in the blanks using appropriate term.

- 1. Real-world objects contain attributes 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 **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.**