







```
Class definition: The java construct that describes the format of a folder (instance, object) of the class.

/** description of what the class is for */
*/

public class <class-name> {
    declarations of methods (in any order)
    }

A class definition goes in its own file named
    <class-name> . java

On your hard drive, have a separate directory for each Java program that you write; put all the class definitions for the program in that directory.
```

```
Class definition: The java construct that describes the format of a folder (instance, object) of the class.

/** description of what the class is for

*/

public class C extends < superclass-name> {
    declarations of methods (in any order)

}

Class C has all the fields and methods that < superclass-name> does, in addition to those declared in C. Class C inherits the fields and methods of < superclass-name>.
```

```
/** description of what the class is for */
public class subclass-name extends superclass-name {
    declarations of methods
}

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superclass-name
methods and fields inherited from superclass-name
subclass-name
methods and fields declared in subclass-name

methods and fields declared in subclass-name
```

```
First example of a procedure and of a function

/** description of what the class is for */
public class subclass-name extends superclass-name {
    /** Set the height of the window to the width */
    public void setHeightToWidth() {
        setSize(getWidth(), getWidth());
    }

    /** = the area of the window */
    public int area() {
        return getWidth() * getHeight();
    }
}
```

```
import javax.swing.*:

/** An instance is a JFrame with methods to square it and
to provide the area of the JFrame */
public class SquareJFrame extends JFrame {
    declarations of methods
}

To the left, draw a
    manila folder of
    class SquareJFrame.
When we define
    methods, put them
    in the proper place
```

```
import javax.swing.*;
/** An instance is a JFrame with methods to square it and
to provide the area of the JFrame */
public class SquareJFrame extends JFrame {
    /** = the area of the window */
    public int area() { ... }
    /** Set the height equal to the width */
    public void setHeightToWidth() {...}
}

The class and every method in it has a comment of the form
    /** specification */

It is a Javadoc comment. Click on javadoc icon in DrJava to
    extract class specification. DO THIS AT LEAST ONCE IN LAB.
```

