







```
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 declared in subclass-name

methods 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
                                                  folder belongs
                                                  in file drawer
                                    JFrame
    setTitle(String) getTitle()
                                                  for class
   getX() getY() setLocation(int,int)
                                                    SquareJFrame
   getWidth() getHeight() setSize(int,int)
                                 SquareJFrame
       setHeightToWidth()
                                area()
```



