

Java Lesson Notes

Week-3

Yonca Özgün | Computer Science Teacher
www.yoncaozgun.com

Let's create our first program

```
package firstprogram;

public class helloworld {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.out.println("Hello Java");
    }

}
```

// This is a comment line

**/*Here is
multi-line
Comment */**

And the compiler ignores us



What is a comment?

- ✓ When you are making a program you want to basically say something about that code.
- ✓ If we put `//` before codes, the compiler ignores it, it wouldn't care at all what's written here
- ✓ What if you want multi-line, a paragraph of text explaining we can start with `/*` and end with `*/`

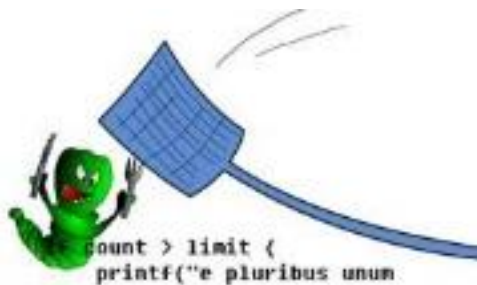
Programming errors and debugging

- ✓ Programming languages have their own vocabulary
syntax
- ✓ Each programming languages each have their own
syntax
- ✓ When you compile a program, the compiler first checks to see whether your program is syntactically correct.
- ✓ If you have violated the syntatic rules, the compiler displays an error message
- ✓ When you get a message from the compiler indicating a **syntax error**, you must go back and edit the program to correct it.

Bug?

You look at the program and discover that you have made a **mistake in the logic** of the program, the type of mistake programmers call **bug**.



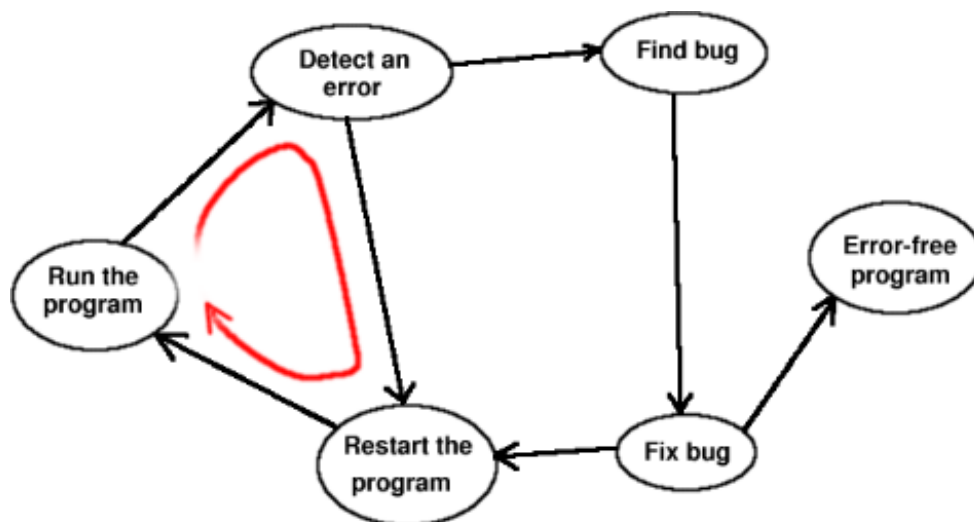


Debugging?



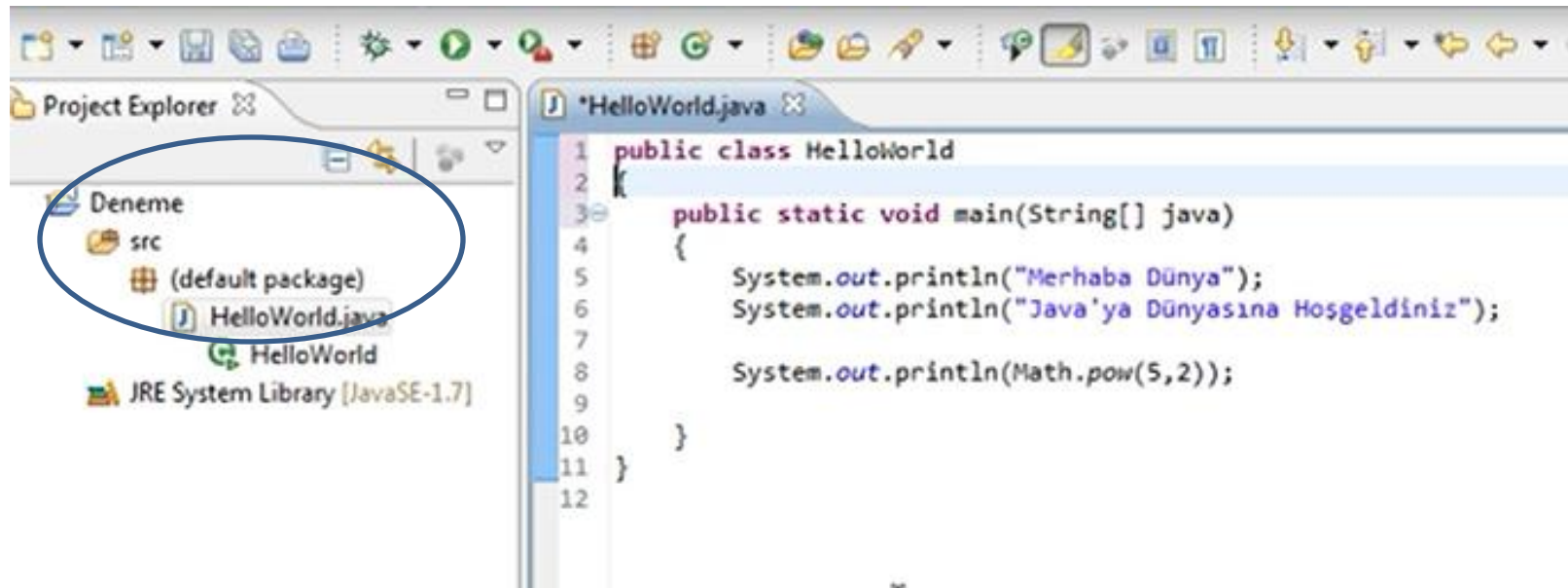
“De”+“Bug”

The process of finding and fixing bugs from the code



Typical Debugging Cycle

Package

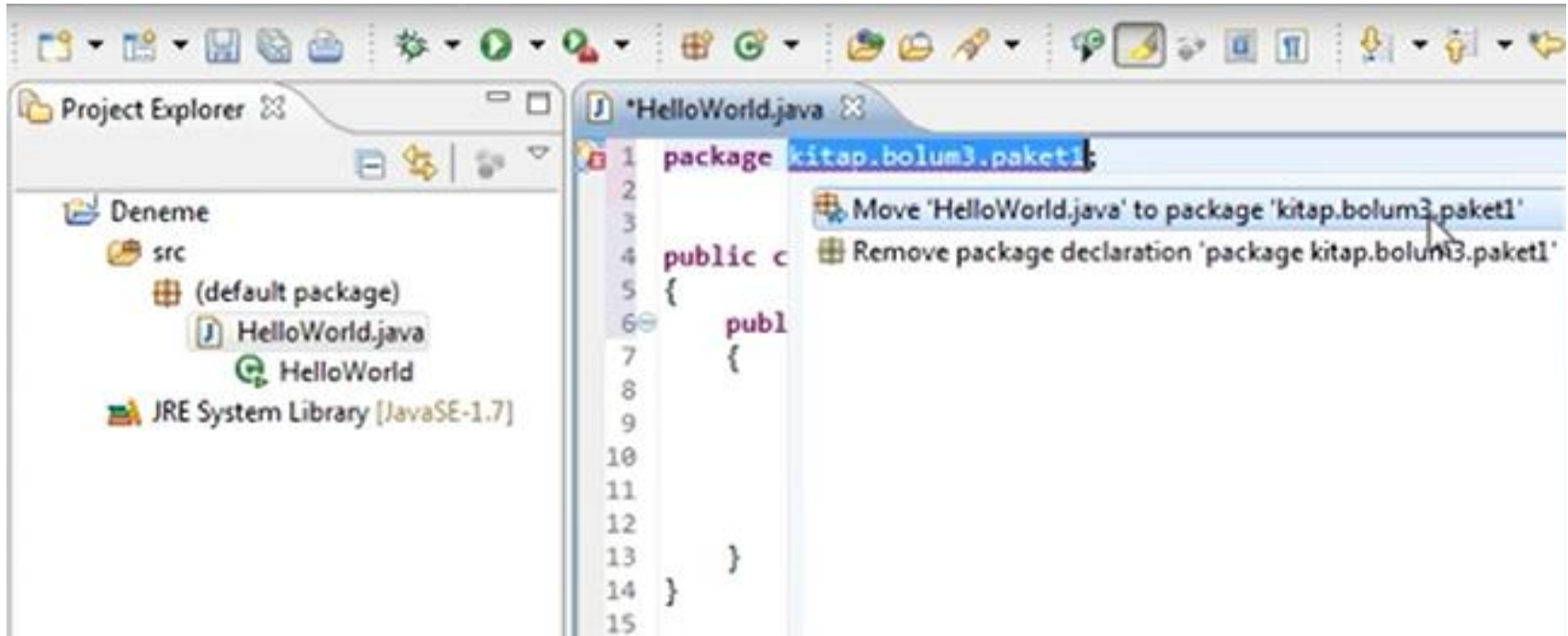


Packages provide hierarchy between classes

If we haven't defined a package, it gives us a default package.

Package

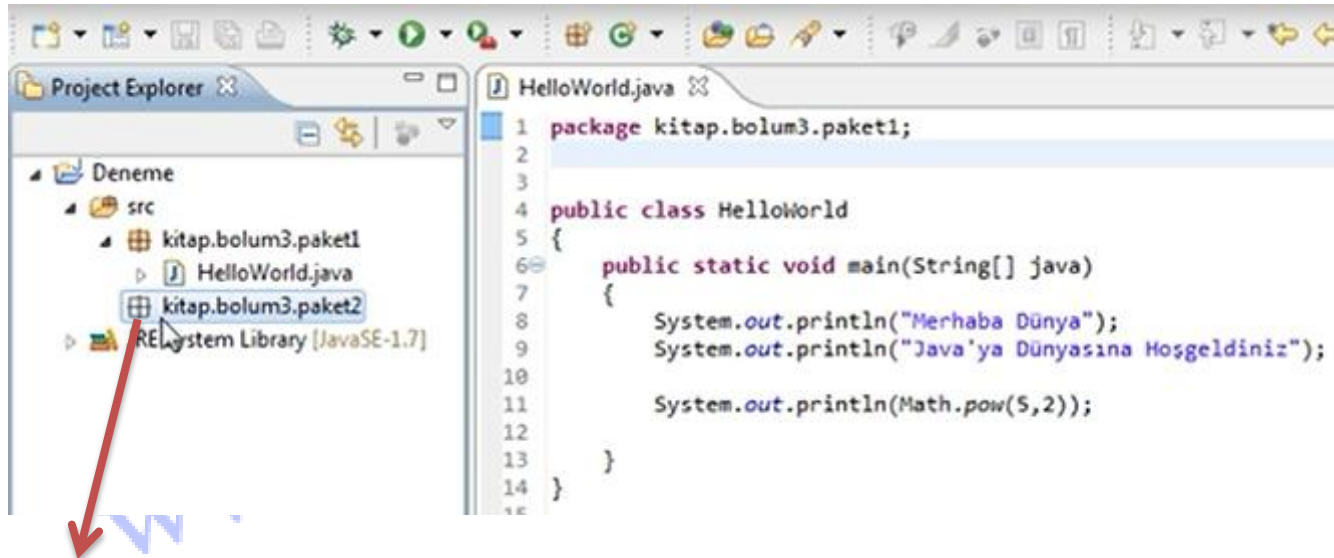
Package name must be at top of codes!



**If we are in default package and create a new package, it will ask that;
MOVE CLASS TO NEW PACKAGE?**

To create new package

Right click on src → New → Package



It's empty
package. Because
package has no
class now.

Add new class to package

While we are adding a new class to this package, package name will come automatically.

If we change package name, it will ask me that again : “to move class to another package”