

1. HelloWorld's main method creates two objects, one of type HelloWorld and one of type HolaWorld.

2. The void keyword indicates that the main method does not have a return value.

X new keyword seen 3 times:-  
new HelloWorld []  
new HelloWorld  
new HolaWorld

```

/**
 * This is part of Problem Set 0 for 6.170 Spring 2004.
 */
package ps0;

/**
 * HelloWorld is like HelloWorld except it can say hello in Spanish!
 *
 * @author Michael Polin
 */
public class HolaWorld extends HelloWorld {
    /** the greeting of the superclass, but in Spanish */
    private String spanishGreeting = "Hola Mundo!";

    /** Shows what happens when the sayHello() method
     * of both HelloWorld and HolaWorld are invoked
     */
    public static void main(String[] argv) {
        HelloWorld[] worlds = new HelloWorld[2];
        worlds[0] = new HelloWorld();
        worlds[1] = new HolaWorld();
        for (int i = 0; i < worlds.length; i++) {
            worlds[i].sayHello();
        }
    }

    // Javadoc inherited from ps0.HelloWorld
    public void sayHello() {
        System.out.println(spanishGreeting);
    }
}

```



```

/*
 * Dan R. K. Ports <drkp@mit.edu>
 * Created on Feb 5, 2004
 *
 */
package ps0;
import java.util.Random;

/**
 * @author Dan R. K. Ports <drkp@mit.edu>
 */
public class RandomHello {

    public static void main(String[] args) {
        RandomHello randomHello = new RandomHello();
        randomHello.sayHello();
    }

    /**
     * @effects Prints a randomly-selected greeting to stdout
     */
    public void sayHello() {
        Random randomGenerator = new Random();

        // array of random greetings shameless ripped off from ps0 spec
        String[] greetings = new String[5];
        greetings[0] = "Hello World";
        greetings[1] = "Ola Mundo";
        greetings[2] = "Bonjour Monde";
        greetings[3] = "Hallo Welt";
        greetings[4] = "Ciao Mondo";

        System.out.println(greetings[randomGenerator.nextInt(4)]);
    }
}

```

"Ciao Mondo" will  
 never print -  
 read API for  
 Random.nextInt()

