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package lib;

/*****
 * Module.java
 * Created by Matthew A. Crist on March 26, 2013.
 *
 * The class defines the basic characteristics of a module and the requirements
 * that will be enforced when such module requires network transmission of
 * information.
 *
 * CHANGE LOG:
 * -----
 * 2013-03-26 - Initial conception of this file.
 *
 *****/

import java.io.IOException;
import java.net.ServerSocket;

public class Module {
    /** The name of the module. */
    private String name;
    /** The program/script to be invoked upon connectivity. */
    private String invocation;
    /** The port in which to listen for connectivity. */
    private String port;

    /**
     * Default constructor that takes no arguments and initializes this
     * module's parameters to default values.
     */
    public Module() {
        this.name      = "Unknown Module";
        this.invocation = "./";
        this.port       = "0";
    } // end default constructor

    /**
     * Argumented constructor for this class that will set the name, port
     * and script to be invoked upon successfully connection with the client.
     */
    public Module(String name, String invocation, String port) {
        this.name      = name;
        this.invocation = invocation;
        this.port       = port;
    } // end argumented constructor

    /**
     * Sets the name for this module.
     */
    public void setName(String name) {
        this.name = name;
    } // end method setName

    /**
     * Sets the invocation script for this module.
     */
    public void setInvocation(String invocation) {
        this.invocation = invocation;
    } // end method setInvocation

    /**
     * Sets the port for this module.
     */
    public void setPort(String port) {
        this.port = port;
    } // end method setPort

```

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/**
 * Acquires the name of this module.
 */
public String getName() {
    return this.name;
} // end method getName

/**
 * Acquires the script to be invoked by this server on connectivity.
 */
public String getInvocation() {
    return this.invocation;
} // end method getInvocation

/**
 * Acquires the port in which the server should be listening for this
 * module.
 */
public String getPort() {
    return this.port;
} // end method getPort
} // end class module
```