Day 1: Reading Code

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Consider this Java program code. Be as specific as possible when answering the questions that follow.

```java
// program begins here
package lab1;
/**
 * <p>Title: Lab 1</p>
 *
 * <p>Description: Introduction to Writing Programs in Eclipse </p>
 *
 * @author Prof. Merlo (cmerlo@ncc.edu)
 */

// class definition
public class Lab1App { // class header
    public static void main(String[] args) { // main method header
        // variable declarations
        int x;
        int y;
        double z;

        // assignment and output statements
        x = 1 + 3 * 2;
        System.out.println("x is " + x);

        y = x + x;
        System.out.println("y is " + y);

        y=y+1;
        System.out.println("y is now " + y);

        x = x - 5;
        System.out.println("x is now " + x);

        z = y / x;
        System.out.println("z is " + z);

        y = y / x;
        System.out.println("y is now " + y);
    }
}
```

1. List five things you observe about the structure of this program (indentation, punctuation, etc.).

2. What do you think the term *header* means? Why do you think there are two types of headers?

3. There is a section called *variable declarations*. What do you think the term *variable* means?

4. What do you think is meant by the term *statement*?

5. What do you think the computer does when it encounters a statement like the one on Line 20?

6. When this program runs, what do you think shows up on the screen?

7. Do you have any questions about this code?