Model 1 Review of Scanner

The java.util.Scanner class is useful for reading and parsing text from various sources:

```
// Example 1
Scanner in = new Scanner(System.in);
while (in.hasNextLine()) {
    String line = in.nextLine();
    System.out.println(line);
}

// Example 2
String text = "1 fish 2 fish red fish blue fish";
Scanner sc = new Scanner(text);
System.out.println(sc.nextInt());
System.out.println(sc.nextInt());
System.out.println(sc.nextInt());
System.out.println(sc.nextInt());
System.out.println(sc.nextInt());
```

Questions (10 min)

Start time:

1. For each example above, describe what the Scanner is scanning.

```
a) Example 1: new Scanner(System.in)b) Example 2: new Scanner(text)
```

2. Based on the documentation for Scanner, explain the following:

```
a) in.hasNextLine()
b) in.nextLine()
c) s.nextInt()
```

d) s.next()

	Open <i>ScannerDemo.java</i> in Eclipse, and run the program. Enter three lines of input, and ice the output. Then press Ctrl+D, which is the keyboard shortcut for "end of file" (EOF).
a	a) In the Console, what color was the user's input?
b) In the Console, what color was the program's output?
C	c) What was the complete output of the program? (Note: Do not include the input lines.)
4. \	What effect did pressing Ctrl+D have on the program? Explain how you think EOF works.
	Rewrite the code for Example 2 to output each <i>word</i> of the string using a while loop. Run or code to make sure it works.