

OBJECTIVE:
Students will be able to read and interpret error messages.

Team 8
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(description) LESSON STEPS visuals)

“I DO” (Mini-Lesson)

- Class will all look at a previously created and tested project (prework 02 Date.java, see *original code to right*).
- Teacher will compile and run program and show class that there are no errors.
- Teacher will insert 2 intentional errors, compile, then model interpreting error message and markings and via think aloud
 - See *DIAGRAM A & B to the right*

“WE DO” (Guided Practice)

- Class will all look at same code from mini-lesson/demo
- Teacher will engage students to participate and insert similar errors in different areas
- Have students turn and talk to discuss their noticings, error types, and annotations

“YOU DO”

Independent Practice:

- Students will be given a different project by the teacher that students they have previously seen that includes teacher created errors.
 - Concatenation error missing “+”
 - Capitalization error
 - Runtime error
- Students will work in partnerships to find, analyze and fix errors.
- Scaffold - graphic organizer to help log and analyze (e.g. column for error message, description of what error means in plain English, description of error fix,)

ORIGINAL CODE SNIPPET

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Date{
5     public static void main(String[] args){
6
7         String day, month;
8         int date, year;
9
10        day = "Thursday";
11        month = "December";
12        date = 23;
13        year = 2021;
14
15        System.out.println("American format:");
16        System.out.println(day, " " + month + " " + date + " " + year);
17        System.out.println();
18        System.out.println("European format:");
19        System.out.println(day + " " + date + " " + month + " " + year);
20
21    }
22 }
```

A. Omit Semicolon (line 11)

```
11 month = "December"
```

ERROR MSG PRODUCED

```
~/.../pre/pre02$ javac Date.java
Date.java:11: error: ';' expected
month = "December"
      ^
1 error
```

B. Omit Curly Brace to End Main (line 21)

ERROR MSG PRODUCED

```
Date.java:22: error: reached
end of file while parsing
}
^
1 error
```