Shirley Ramirez - Week 1: Lab

## Exercise 1

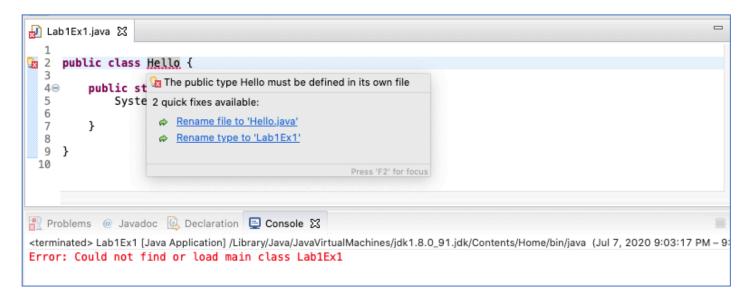
HelloWorld application:

```
    Lab1Ex1.java 

    S

  2
     public class Lab1Ex1 {
  3
  4⊝
          public static void main(String[] args) {
  5
               System.out.println("Hello World");
  6
          }
  7
  8
  9
     }
 10
🦹 Problems @ Javadoc 📵 Declaration 📮 Console 🔀
<terminated> Lab1Ex1 [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java (Jul 7, 2020 8:59:02 PM - 8:
Hello World
```

- a) Change Lab1Ex1 to Hello
  - Prediction: It won't run because it won't recognize the class name. I didn't go through the
    whole process of assigning "Hello" as the class name as I did with "Lab1Ex1" so even though I
    changed the name in the editor space, it still has "Lab1Ex1" stored as the proper class name.
  - Result:



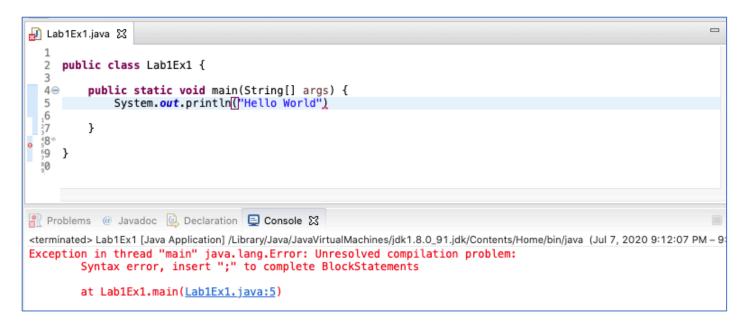
- b) Remove the first quotation mark in the String
  - **Prediction:** Without the first quotation mark indicating that this is where the string starts, it won't recognize the text as a string type and so won't be able to run.
  - Result:

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```
🛃 Lab1Ex1.java 🛭
     public class Lab1Ex1 {
  2
  3
  4⊖
          public static void main(String[] args) {
  5
              System.out.println(Hello World");
  6
  27
          }
  48°
     }
 80
18
🥷 Problems 	 @ Javadoc 📵 Declaration 📮 Console 🔀
<terminated> Lab1Ex1 [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java (Jul 7, 2020 9:09:56 PM - 9:
Exception in thread "main" java.lang.Error: Unresolved compilation problems:
        Syntax error on token(s), misplaced construct(s)
        Hello cannot be resolved to a type
        Syntax error, insert ";" to complete BlockStatements
        String literal is not properly closed by a double-quote
        String literal is not properly closed by a double-quote
        at Lab1Ex1.main(Lab1Ex1.java:5)
```

#### c) Remove the semicolon

- Prediction: It won't recognize the end of the statement without the semicolon. Without a clear
  indicator that the statement has come to an end, it'll be unable to run.
- Result:



# d) Remove the last brace in the program

- **Prediction:** Similar to how a semicolon is necessary to indicate the end of a statement, the lasts brace is necessary to indicate the end of the program. It will be unable to run as it won't be read as a complete program.
- Result:

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```
public class Lab1Ex1 {
  2
           public static void main(String[] args) {
  4⊖
  5
               System.out.println("Hello World");
  6
  27
           }
  48
  9
  80
🔐 Problems 🏿 @ Javadoc 🔼 Declaration 📮 Console 🔀
<terminated> Lab1Ex1 [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java (Jul 7, 2020 9:15:38 PM - 9:
Exception in thread "main" java.lang.Error: Unresolved compilation problem: Syntax error, insert "}" to complete ClassBody
         at Lab1Ex1.main(Lab1Ex1.java:7)
```

# **Exercise 2**

```
🚺 GradeAvg.java 🔀
  2
     public class GradeAvg {
         public static void main(String[] args) {
  4⊖
  5
              double quizScore1 = 75.0;
              double quizScore2 = 93.8;
  6
  7
              double quizScore3 = 92.6;
  8
  9
              double testScore1 = 96.7;
 10
              double testScore2 = 89.9;
 11
              double quizScoreAvg = (quizScore1 + quizScore2 + quizScore3) / 3;
 12
 13
              double testScoreAvg = (testScore1 + testScore2) / 2;
 14
              System.out.println("Quiz Score Average: " + quizScoreAvg + "%");
 15
              System.out.println("Test Score Average: " + testScoreAvg + "%");
 16
 17
 18
         }
 19
 20
     }
 21
🦹 Problems 🏿 @ Javadoc 🖳 Declaration 📮 Console 🔀
<terminated> GradeAvg [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java (Jul 7, 2020 9:39:34 PM - 9
Quiz Score Average: 87.1333333333333333
Test Score Average: 93.30000000000001%
```

## **Exercise 3**

AgeGuess

```
    □ Lab1Ex1.java    □ GradeAvg.java    □ AgeGuess.java    □ *TimeComp.java
     import java.util.Scanner;
     public class AgeGuess {
  3
  4
  5⊝
         public static void main(String[] args) {
  6
              // Create a new Scanner object
  7
              Scanner scan = new Scanner(System.in);
  8
  9
              String name;
              int ageGuess;
 10
 11
              // Read in the name entered by user
 12
 13
              System.out.print("Enter a name: ");
 14
              name = scan.nextLine();
 15
              // Read in the age guess entered by user
 16
              System.out.print("Enter an age guess: ");
 17
 18
              ageGuess = scan.nextInt();
 19
 20
              // Stop scan from awaiting further input
 21
              scan.close();
 22
 23
              // Display variable values
 24
              System.out.println();
              System.out.println("name: " + name);
 25
              System.out.println("ageGuess: " + ageGuess);
 26
 27
         }
 28
 29
 30
 31
🤁 Problems @ Javadoc 📵 Declaration 💂 Console 🔀
<terminated> AgeGuess [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java (Jul 9, 2020 9:48:08
Enter a name: Ashley
Enter an age guess: 9
name: Ashley
ageGuess: 9
```

#### **Exercise 4**

TimeComp

```
J GradeAvg.java
                                   J AgeGuess.java
                                                     import java.util.Scanner;
     public class TimeComp {
  3
  4
  5⊝
         public static void main(String[] args) {
             // Create a new Scanner object
  6
  7
             Scanner scan = new Scanner(System.in);
  8
  9
             int secondsIn;
 10
             int minutes;
             int hours;
 11
 12
             int secondsOut;
 13
 14
             // Read in number entered by user
             System.out.print("Enter a number of seconds: ");
 15
 16
             secondsIn = scan.nextInt();
 17
             // Stop scan from awaiting further input
 18
 19
             scan.close();
 20
 21
             hours = secondsIn / 3600;
                                                       //Get hours (3600sec/hr)
 22
             minutes = (secondsIn % 3600) / 60;
                                                      //Get mins from remaining seconds (60sec/min)
 23
             secondsOut = (secondsIn % 3600) % 60;
                                                      //Remaining seconds
 24
 25
             System.out.println();
             System.out.print(hours + " hours, " + minutes + " minutes, " + secondsOut + " seconds");
 26
 27
         }
 28
 29
 30
     }
 31
Problems @ Javadoc Q Declaration 😑 Console 🔀
<terminated> TimeComp [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java (Jul 9, 2020 9:54:0
Enter a number of seconds: 9999
2 hours, 46 minutes, 39 seconds
```