

## AP Computer Science Homework 4

*Due date:* Friday, September 16, 2016

*Instructor:* Mr. Alwin Tareen

### Part A: Unit Conversions

- Write a Java program in the file `Conversion.java` that declares seven variables of type `double` named `inch`, `yard`, `mile`, `centimeter`, `meter`, `kilometer` and `lightYear` respectively.
- Assign each variable with the following values:

Variable	Value
inch	2.54
yard	0.9144
mile	1.609
centimeter	0.3937
meter	1.094
kilometer	0.6214
lightYear	9.464E12

- Verify that the program displays each conversion factor to the terminal, in the following manner:

```
2.54
0.9144
1.609
0.3937
1.094
0.6214
9.464E12
```

- You will write your solution in a method called `unitConversions()`, right below the place where it says: `YOUR CODE HERE`.
- Compile and run the `Conversion.java` file, and make sure that you get a correct value on the terminal output. If you have made an error, correct the mistake, and then compile and run the `Conversion.java` file again, until you get the right answer.
- If you are confident you have a correct answer, clicked on the button labelled `Run Tests` to activate the JUnit test bench.
- If you see a green bar in the BlueJ: `Test Results` window, then your code is verified as correct. Otherwise, if a red bar appears, then you need to perform some additional debugging.

### Part B: Submission

- Submit your Java program by uploading it to the Web-CAT automated grading platform.