Project 2: GoMetric

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Metric.java

```
import java.util.Scanner;
* This program converts different lengths into meters.
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*/
public class Metric
 public static void main(String[] args)
   // These constants are used in conversions to meters.
    // ex: INCH = 0.0254 meters
    final double INCH = 0.0254;
    final double FOOT = 0.3048;
    final double YARD = 0.9144;
    final double MILE = 1609.3;
    // Query miles, yards, feet and inches from the user using standard input.
    Scanner stdin = new Scanner(System.in);
    double inches, feet, yards, miles;
    System.out.print("Inches? ");
    inches = stdin.nextDouble();
    System.out.print("Feet? ");
    feet = stdin.nextDouble();
    System.out.print("Yards? ");
    yards = stdin.nextDouble();
    System.out.print("Miles? ");
    miles = stdin.nextDouble();
    double totalMeters = (INCH * inches) + (FOOT * feet) + (YARD * yards) + (MILE * miles);
    // Format output string for legibility.
    // "%f" is the format string for a floating point number.
    String outputTotal = String.format("%f inches + %f feet + %f yards + %f miles = %f meters",
        inches, feet, yards, miles, totalMeters);
    System.out.println(outputTotal);
    // Close 'stdin' to free up system resources.
    stdin.close();
 }
```

```
kyleg% java -jar GoMetric.jar
Inches? 1
Feet? 1
Yards? 1
Miles? 1
1.000000 inches + 1.000000 feet + 1.000000 yards + 1.000000 miles = 1610.544600 meters
kyleg% []
```

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