

Laboratory Exercises 10

Methods: Void Method

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Date: 14/12/2021
Score: _____

Write a java program for conversion of unit measurement. For example, conversion of foot to inch, meter to cm, etc. Your program must include the ff:

- 2 types of conversion
- Use at least two methods
- Apply both 2 types of methods (w/ return value and void)

Design Output:

CONVERT MILLIMETERS INTO INCHES & INTO METERS

Enter the value of millimeters: 1

1.0 mm is equivalent to 0.03937007874015748 inches and also equal to 0.001 meters

Screenshots of program and diff. sample output:

```
1 package GEYMNA;
2 import java.util.Scanner;
3 public class Act_void_method
4 {
5     public static void main(String [] args)
6     {
7         Scanner input = new Scanner(System.in);
8         System.out.print("CONVERT MILLIMETERS INTO INCHES & INTO METERS\n\nEnter the value of milimeters: ");
9         double millimeters = input.nextDouble();
10        double inch = inches (millimeters);
11        double m = meters (inch);
12        answer ( millimeters, inch, m);
13    }
14    }
15    public static double inches (double millimeters) {
16        return ( millimeters / 25.4);
17    }
18    private static double meters(double inch) {
19        return (inch * 0.0254);
20    }
21    private static void answer(double mm, double inch, double m)
22    {
23        System.out.println(mm + " mm is equivalent to " + inch + " inches and also equal to " + m + " meters" );
24    }
25 }
26
```

<div>CONVERT MILLIMETERS INTO INCHES & INTO METERS</div> <div>Enter the value of millimeters: 0.000000000000001</div> <div>1.0E-14 mm is equivalent to 3.9370078740157483E-16 inches and also equal to 1.0E-17 m</div>
<div>CONVERT MILLIMETERS INTO INCHES & INTO METERS</div> <div>Enter the value of milimeters: 2</div> <div>2.0 mm is equivalent to 0.07874015748031496 inches and also equal to 0.002 meters</div>
<div>CONVERT MILLIMETERS INTO INCHES & INTO METERS</div> <div>Enter the value of milimeters: 25.3</div> <div>25.3 mm is equivalent to 0.9960629921259844 inches and also equal to 0.025300000000000003 m</div>
<div>CONVERT MILLIMETERS INTO INCHES & INTO METERS</div> <div>Enter the value of milimeters: 3.342</div> <div>3.342 mm is equivalent to 0.13157480314960632 inches and also equal to 0.0033420000000000004 m</div>
<div>CONVERT MILLIMETERS INTO INCHES & INTO METERS</div> <div>Enter the value of milimeters: 1027</div> <div>1027.0 mm is equivalent to 40.43307086614173 inches and also equal to 1.027 meters</div>
<div>CONVERT MILLIMETERS INTO INCHES & INTO METERS</div> <div>Enter the value of millimeters: 0.0001</div> <div>1.0E-4 mm is equivalent to 3.937007874015748E-6 inches and also equal to 1.0E-7 me</div>