

CSCD 210

Lab 2

SPECIFICATIONS:

You have been assigned as the lead programmer for the World Track and Field Championships! The 100-meter dash is one of the highlights of this competition and is considered by many to demonstrate the world's fastest human. Your job is to take the top finish time (given in seconds with two digits of precision to the right of the decimal point) for the 100 meter dash and do some conversions to find out how fast the person was traveling in:

- meters per second
- feet per second
- kilometers per hour
- miles per hour

In addition, you must also determine how long it would take the person to run one mile. And finally, you must determine how long it would take the person to run 100 yards. The result of each conversion you perform should be displayed and clearly labeled, as demonstrated in the sample “run” below (NOTE: the actual numeric results are not displayed that is for you to figure out):

EXAMPLE:

Please enter the winning time of the race: 15.00

The person was traveling at a rate of:

x.xx meters per second,
y.yy feet per second,
z.zz kilometers per hour,
y.yy miles per hour,

It would take m minutes and n.nn seconds for the person to run one mile.

It would take t.tt seconds for the person to run 100 yards.

DETAILS:

- I have provided the Lab2 folder, the package and the class that contains main
- You will write your code in main. I have provided a few variables that you must use and you can declare variables if needed.
- It is your job to figure out the conversions necessary to determine the necessary output based on the above.
- It is also your job to format your output in the same style as shown (2 decimal places). You are only allowed to use either `System.out.printf` or the methods from `import java.text.DecimalFormat`.

TO TURN IN:

A zip file containing Lab2 which will contain:

- This pdf
- Output capture named cscd210lab2out.txt – containing at least 3 different runs
- The package folder lab2 which will contain
 - The package folder cscd210lab2 which will contain
 - CSCD210Lab2.java
 - CSCD210Lab2.class

Name your zip file with your last name first letter of your first name lab2.zip (ex: steinerslab2.zip)

What your Lab2 folder should look like

