

Due: September 4, Tuesday, **5:00 pm** (zero credit if late turn-in)

Write three Java programs as follows:

- Use “default” package: i.e., Your program should not have “package” on the top of the program.
- Define a public class named **MyFeet** as follows:
 - It has a state to remember the length value in feet.
 - It has a command to change the length value.
 - It has queries to read the length value and to read converted length value in meters.
- Define a public class named **MyMeters** as follows:
 - It has a state to remember the length value in meters.
 - It has a command to change the length value.
 - It has queries to read the length value and to read converted length value in feet.
- Define a public class named **Quiz03** as follows for the purpose of testing **MyFeet** and **MyMeters** and displaying a table as shown in the sample run below:
 - Create objects of MyFeet and MyMeters.
 - Using commands and queries for the objects, display the following tables:
 - The program produces four columns with headings. Align columns using System.out.printf() method.
 - Do not print “. . .” as verbatim. Use your reasonable imagination to find what should be there instead of “. . .”
 - The program does not read any data from the keyboard. It just generates the table shown below.

Feet	Meters	Meters	Feet
1.0	0.305	20.0	65.574
2.0	0.61	25.0	81.967
...			
9.0	2.745	60.0	196.721
10.0	3.05	65.0	213.115

Turn-in: Submit programs via D2L (Dropbox -> Quiz02 link) as follows (Do NOT submit them individually):

1. Create a folder named **quiz03**. Do this outside NetBeans.
2. Copy Quiz03.java, MyFeet.java and MyMeters.java into quiz03 folder.
3. Compress quiz03 folder. (You can choose a compress utility by right-clicking on the folder). You will get a compressed file named quiz03.zip. (Change folder view option in Control Panel if you do not see the file extensions.)
4. Submit quiz03.zip via D2L.

Grading Policy:

- Follow each instruction above very carefully and precisely. Each violation is subject to deduction. These are some of possible violations, but is not limited to:
 - class and file names (including case sensitivity)
 - use of ‘package’
 - use of commands and queries
 - input validation
 - submission: a compressed folder (not individual files).