

Write a C++ program to convert a distance given in feet and inches to meters. Use the following conversion ratios to do this: one foot is 12 inches, one inch is 2.54 centimeters and one meter is 100 centimeters. Please, use EXACTLY these conversion factors for your program. Even though these conversion factors are not precisely accurate, I want your program to produce exactly the same results as mine.

Your program will prompt for feet (a whole number only) and inches (allow a fractional part). It will then convert the distance to meters and display the user's entries and the result with reasonable descriptive text. For example, a test run could look like this:

```
Enter feet   : 0
Enter inches : 39.3701
0 feet and 39.3701 inches is 1 meters.
```

Run with a wide range of values including all of these, plus some of your own:

```
1 foot, 0 inches
0 feet, 12 inches
0 feet, 1 inch
0 feet, 39.37 inches
0 feet 39.3701 inches
0 feet, 39.38 inches
3 feet, 3.3701 inches
```

Remember, programs submitted without output will not be graded. For full credit, you need several tests of your own, as well as all of my values. Copy and paste the runs from the DOS CMD shell to Notepad, put your name at the top of the file and a blank line or two between each run, and OTHERWISE DO NOT EDIT THE OUTPUT AT ALL, and save the file with a reasonable name. Attach the .cpp file (NOT the object or executable) and the output text file to your e-mail. Remember CS14, your name and why you are e-mailing me (in the subject line), and put some text and your name in the body of the e-mail, too, so it will be more likely to get through my spam filter.