1. Problem statement:

To ask user to put a number representing the height (in meters) and then compute and display the height (in feet and inches)

1. Analysis:

Inputs: a number in meters

Outputs: a number in feet and inches

Additional requirements: none

1. Design:

Algorithm

-1. Declare three variables namely meters, inches and feet

-2. Ask user for to input a number representing the height

-3. Read the input real number and store the value of such a real number into meters

-4. Compute the height in inches according to the provided formula

-5. Display the height in inches

4. Implementation: see C code in file 1405347\_1-2.c with comments.

5. Testing:

The C program was tested by carrying out a set of experiments; and the C program was verified successfully. For instance,

Enter your height in meters: 1.7

That equals to 5 feet and 7 inches

Enter your height in meters: 1.8

That equals to 5 feet and 11 inches