



- 1. Write a short program that asks for your height in feet and inches and your weight in pounds. (Use three variables to store the information.) Have the program report your body mass index (BMI). To calculate the BMI, first convert your height in feet and inches to your height in infeets I you row height in meters by multiplying by 0.0254. Then convert your weight in meters by multiplying by 0.0254. Then convert your weight in pounds into your mass in kilograms by dividing by 2.2. Finally, compute your BMI by dividing your mass in kilograms by the square of your height in meters. Use macro constants (pre-processor directive) to represent the various conversion factors.
- Write a program that asks the user to enter a latitude in degrees, minutes, and seconds and that then displays the
 latitude in decimal format. There are 60 seconds of arc to a minute and 60 minutes of arc to a degree; represent these
 values with macro constants (pre-processor directive). You should use a separate variable for each input value. A
 sample run should look like this:

Enter a latitude in degrees, minutes, and seconds: First, enter the degrees: 37
Next, enter the minutes of arc: 51
Finally, enter the seconds of arc: 19

37 degrees, 51 minutes, 19 seconds = 37.8553 degrees