### Ideal Weight

# Setup (The same as usual)

Create a new project called 2D *yourlastname* in Eclipse. Next, import the assignment files from my inbox as follows:

1. **File/Import**
2. Select **General/File System** (click **Next**)
3. Browse to assignment 2D in my outbox, select it and click **OK**
4. Click the check box for the folder (all items should get selected)
5. Click **Finish**

# The program…

Write a program (call it whatever you want) to compute the ideal weight for both males and females. According to one study, the ideal weight for a female is 100 pounds plus 5 pounds for each inch in height over 5 feet. For example, the ideal weight for a female who is 5'3" would be 100 + 15 = 115 pounds. For a male the ideal weight is 106 pounds plus 6 pounds for each inch in height over 5 feet. For example, the ideal weight for a male who is 6'2" would be 106 + 14\*6 = 190 pounds. Your program should ask the user to enter his/her height in feet and inches (both as integers -- so a person 5'3" would enter the 5 first and then the 3). It should then compute and print the ideal weight for both a female and a male based on that height. The general outline of your main program would be as follows:

* Get the input (ask for height in feet and then as for height in inches) from the keyboard.
* Compute the total number of inches of height (convert feet and inches from the keyboard to total inches)
* Compute the ideal weight for a female (store the results in variables.)
* Computer the ideal weight for a male (store the results in variables.)
* Print the answers

Be sure it gives correct answers when you run it.

# Enhance the Program a Bit

The weight program would be a bit nicer if it didn't just give one number as the ideal weight for each gender. Generally a person's weight is good if it is within about 15% of the ideal. Add to your program so that in addition to printing the ideal weight, it prints a good range for each gender -- the range is from the ideal weight minus 15% to the ideal weight plus 15%. You may do this by introducing new variables and assignment statements, or you can directly add the calculations inside the print statements.