

The Box II – Practice Exercises [27-03-2021]

Instructions

- *Submit all source code of the exercises.*
- *Each exercise should be done on a separate source code file.*
- *Write up a description of the method employed in doing this exercises for each and save as a PDF.*
- *There should be 5 files.*
- *Submit on the 31st of March 2021 on the google classroom platform.*

Exercise 1

Write a program with which you can convert a human height given in feet and inches to centimetres. The program should ask the user to type in his or her height in two parts: first the height in feet and then the inches part for the height. (A person can say that his or her height is, for example, 5 feet and 9 inches. That would be $30.48 * 5 + 2.54 * 9$ cm.

There can be thus two separate input statements in the program. After the program has received the feet and the inches, it should calculate the corresponding value in centimetres and print it to the screen.

Exercise 2

Improve your program so that its user can give her or his height either in feet and inches or in centimetres. Before any height values shall be given, the program should ask what kinds of units the user wants to give.

Exercise 3

Improve the if construct of your program so that the program says “Wrong unit selection.” if the user types something else than 1 or 2 in the beginning.

Exercise 4

If you have time, search the Internet and find out how to calculate an ideal weight for a person who has a certain height. Make your program to print the user’s ideal weight.

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