#include <iostream>

#include <iomanip>

using namespace std;

/\*About the program! This program is modeled to run on a hear rate machine, therefore it will be interactive.

The user will be asked to to follow a few instructions and input their age.

The program will then show the user and some relatively fun information using the data given in the question\*/

int main() {

//Declare variables

double DaysaYear = 365.25, HrsaDay = 24, MinsanHr = 60, SecsaMin = 60;

double AvHBeatpmin = 60, UsersHBeatpmin = 75;

double AvHBeat4age = 0, usersTotHBeat = 0, userage = 0;

//Welcome user to program and give instructions.

cout << "Hello!\nPlease put the arm band on any portion of your arm between your armpit and elbow.\n";

cout << "Once arm band is on, please input your age:";

cin >> userage;

cout << "\n\n";

//Calculations will now be done using the information.

// Both the average for the users age and his actual heartbeat will be calculated

usersTotHBeat = userage \* UsersHBeatpmin \* MinsanHr \* HrsaDay \* DaysaYear;

AvHBeat4age = userage \* AvHBeatpmin \* MinsanHr \* HrsaDay \* DaysaYear;

//Display information to user

//It will be displayed in decimal form

cout << "The total number of heartbeats you have had in your life time is:"

<< fixed << setprecision(0) << usersTotHBeat << " beats!\n\n";

cout << "Did you know? The average total number of heartbeats for a person your age is:"

<< fixed << setprecision(0) << AvHBeat4age << " beats!\n\n\n";

return 0;

}