//03-08 **local variables** avearge pea pods

//Computes the average yield on an experimental pea growing patch.

#include <iostream>

#include <conio.h>

using namespace std;

double estimateOfTotal(int minPeas, int maxPeas, int podCount);

//Returns an estimate of the total number of peas harvested.

//The formal parameter podCount is the number of pods.

//The formal parameters minPeas and maxPeas are the minimum

//and maximum number of peas in a pod.

int main( )

{

int maxCount, minCount, podCount;

double **averagePea**, yield; **//local to main**

cout << "Enter minimum and maximum number of peas in a pod: ";

cin >> minCount >> maxCount;

cout << "Enter the number of pods: ";

cin >> podCount;

cout << "Enter the weight of an average pea (in ounces): ";

cin >> **averagePea; //local to main**

yield =

estimateOfTotal(minCount, maxCount, podCount) \* averagePea;

cout.setf(ios::fixed);

cout.setf(ios::showpoint);

cout.precision(3);

cout << "Min number of peas per pod = " << minCount << endl

<< "Max number of peas per pod = " << maxCount << endl

<< "Pod count = " << podCount << endl

<< "Average pea weight = "

<< **averagePea** << " ounces" << endl **//local to main**

<< "Estimated average yield = " << yield << " ounces"

<< endl;

\_getch();

return 0;

}

double estimateOfTotal(int minPeas, int maxPeas, int podCount)

{

double **averagePea;//lolcal to function, function is its scope**

averagePea = (maxPeas + minPeas)/2.0;

return (podCount \* averagePea);

}