// Gavin Garner CS 317

// Calculate GPA

// This program calculates GPA

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

float grade1, grade2, grade3, grade4;

float credits1, credits2, credits3, credits4;

cout << "Enter credit hours for grade 1: ";

cin >> credits1;

cout << "Enter grade 1: ";

cin >> grade1;

cout << "Enter credit hours for grade 2: ";

cin >> credits2;

cout << "Enter grade 2: ";

cin >> grade2;

cout << "Enter credit hours for grade 3: ";

cin >> credits3;

cout << "Enter grade 3: ";

cin >> grade3;

cout << "Enter credit hours for grade 4: ";

cin >> credits4;

cout << "Enter grade 4: ";

cin >> grade4;

float totalGrades = (grade1 \* credits1) + (grade2 \* credits2) + (grade3 \* credits3) + (grade4 \* credits4),

totalCredits = credits1 + credits2 + credits3 + credits4,

gpa = totalGrades / totalCredits;

cout << setprecision(1) << fixed;

cout << "----------------------" << endl;

cout << grade1 << "-" << credits1 << " " << grade2 << "-" << credits2 << " "<< grade3 << "-" << credits3 << " "<< grade4 << "-" << credits4 << " "<<setprecision(2) << fixed << "Average = " <<gpa << endl;

return 0;

}





