**GPA & CGPA Calculator**

**Code:**

#include<iostream>

using namespace std;

int main() {

int numCourses;

cout << "Enter number of courses: ";

cin >> numCourses;

double totalCredits = 0, totalGradePoints = 0, cgpa = 0;

int totalSemesters = 1; // Assuming one semester for simplicity

for (int i = 0; i < numCourses; i++) {

double grade, creditHours;

cout << "Enter grade (4.0 scale) for course " << i + 1 << ": ";

cin >> grade;

cout << "Enter credit hours for course " << i + 1 << ": ";

cin >> creditHours;

totalCredits += creditHours;

totalGradePoints += grade \* creditHours;

cout << "Course " << i + 1 << ": Grade = " << grade << ", Credit Hours = " << creditHours << endl;

}

double gpa = totalGradePoints / totalCredits;

cgpa = gpa; // For one semester, GPA = CGPA

cout << "GPA for the semester: " << gpa << endl;

cout << "CGPA: " << cgpa << endl;

return 0;

}

**Output:**

