CODE ALPHA

C ++ PROGRAMMING

TASK#1

#include <iostream>

using namespace std;C

int main() {

int numSemesters = 6; // Fixed number of semesters to 6

float totalGradePoints = 0;

int totalCredits = 0;

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

int numCourses;

cout << "\nEnter the number of courses for semester " << i + 1 << ": ";

cin >> numCourses;

float semesterGradePoints = 0;

int semesterCredits = 0;

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

string courseName;

int credits;

float grade;

cout << "Enter course " << j + 1 << " name: ";

cin >> courseName;

cout << "Enter credits for " << courseName << ": ";

cin >> credits;

cout << "Enter grade (on a scale of 4.0) for " << courseName << ": ";

cin >> grade;

semesterGradePoints += grade \* credits;

semesterCredits += credits;

}

float semesterGPA = semesterGradePoints / semesterCredits;

cout << "GPA for semester " << i + 1 << ": " << semesterGPA << endl;

totalGradePoints += semesterGradePoints;

totalCredits += semesterCredits;

}

float cgpa = totalGradePoints / totalCredits;

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

return 0;

}

RESULT:

