*// Hamza Hamruni*

*// 213010793*

*// PG\_4*

*#include<iostream>*

*#include<fstream>*

*#include<string>*

*#include <iomanip>*

*using namespace std;*

*struct student*

*{*

*int number\_of\_student,fee\_value; // Number Of Students & Fee Value*

*long id; // Students Id*

*string first\_name,middle\_name,last\_name; // Student Name*

*char status; // Status [Y/N]*

*int number\_of\_courses; // Number Of Courses*

*char course[6]; // Course*

*int credits; // credits*

*float grade; // Grade*

*};*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*int main()*

*{*

*cout<<"\t\t\t\tHamza Hamruni\n\t\t\t\t 213010793\n\t\t\t\t PG\_4\n\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n";*

*student ST;*

*ifstream file;*

*file.open("StudentGrades.txt",ios::in);*

*if(!file)*

*{*

*cout<<"\t\t\t\tFile Is Not Found ";*

*exit(1);*

*}*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*int Total\_number\_of\_credits;*

*float Semester\_GPA;*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*file>>ST.number\_of\_student>>ST.fee\_value;*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*for(int i=0;i<ST.number\_of\_student;i++)*

*{*

*Semester\_GPA=0;*

*Total\_number\_of\_credits=0;*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*file>>ST.id>>ST.first\_name>>ST.middle\_name*

*>>ST.last\_name>> ST.status>>ST.number\_of\_courses;*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*cout<<"\nStudent ID: "<<ST.id<<endl;*

*cout<<"Student Name: "<<ST.first\_name<<" "*

*<<ST.middle\_name<<" "<<ST.last\_name<<endl;*

*cout<<"Number of courses enrolled: "<<ST.number\_of\_courses<<endl;*

*cout<<"Course Credits Grade"<<endl;*

*for(int j=0;j<ST.number\_of\_courses;j++)*

*{*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*file>>ST.course>>ST.credits>>ST.grade;*

*//----------------------------------------------------------------------------------------------------------------------------------------*

*if(ST.status=='Y' || ST.status=='y')*

*{*

*cout<<ST.course<<setw(6)<<left<<" "<<ST.credits<<setw(7)<<left<<" "<<ST.grade<<endl;*

*}*

*if(ST.status=='n' || ST.status=='N')*

*{*

*cout<<ST.course<<setw(6)<<left<<" " <<ST.credits<<setw(7)<<left<<" "<<"\*\*\*\*\*"<<endl;*

*}*

*Total\_number\_of\_credits+=ST.credits;*

*Semester\_GPA=Semester\_GPA+(ST.grade\*ST.credits);*

*}*

*Semester\_GPA=Semester\_GPA/Total\_number\_of\_credits;*

*if(ST.status=='Y' || ST.status=='y')*

*{*

*cout<<"\nTotal number of credits: "*

*<<Total\_number\_of\_credits<<endl;cout<<"Semester GPA: <<Semester\_GPA<<endl<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;*

*}*

*if(ST.status=='n' || ST.status=='N')*

*{*

*cout<<"\nTotal number of credits: "*

*<<Total\_number\_of\_credits<<endl;*

*cout<<"Sorry tuition not paid"<<endl<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;*

*}*

*}// End For*

*file.close();*

*}//End program*