Приклад. Вивести на екран усіх студентів, у яких стипендія менша за 1000 грн.

// ConsoleApplication16.cpp : Defines the entry point for the console application.

//

#include "stdafx.h"

#include<iostream>

#include<string> //Підключаємо модуль для роботи з рядками

using namespace std;

//-------------------

struct Student

{

string name; //Ім»я

int year; //Рік народження

double grant; //Стипендія

};

//--------------------------------

void inputOneStudent(Student &student)

{

}

int main()

{

int studentCount;

cout << "Student Count =";

cin >> studentCount;

Student\* students= new Student[studentCount];

for (int i = 0; i < studentCount; i++)

{

cout << "name: ";

cin >> students[i].name;

cout << "year: ";

cin >> students[i].year;

cout << "grant: ";

cin >> students[i].grant;

}

//--------------- ------------------

cout << "---- List of students (grant>1000) ---" << endl;

bool noSuchStudents=true;

for (int i = 0; i < studentCount; i++)

{

if (students[i].grant > 1000)

{

noSuchStudents = false;

printf(" %s : %d : %5.2f \n", students[i].name.data(),students[i].year,students[i].grant);

}

}

cout << endl;

if (noSuchStudents)

{

cout << "No such students" << endl;

}

//-----------------------------------

delete[] students;

system("pause");

return 0;

}

//===============================================

// ConsoleApplication16.cpp : Defines the entry point for the console application.

//

#include "stdafx.h"

#include<iostream>

#include<string>

using namespace std;

//-------------------

struct Student

{

string name;

int year;

double grant;

};

//--------------------------------

void inputOneStudent(Student &student)

{

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

cout << "name: ";

cin >> student.name;

cout << "year: ";

cin >> student.year;

cout << "grant: ";

cin >> student.grant;

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

}

void inputGroupStudents(Student\* &students, int& studentCount)

{

cout << "Student Count =";

cin >> studentCount;

students = new Student[studentCount];

for (int i = 0; i < studentCount; i++)

{

inputOneStudent(students[i]);

}

}

//------------------------------------

bool searchStudentsByGrant(Student\* students, int studentCount, double searchGrant)

{

cout << "---- List of students (grant>"<< searchGrant <<") ---" << endl;

cout << endl;

bool noSuchStudents = true;

for (int i = 0; i < studentCount; i++)

{

if (students[i].grant > searchGrant)

{

noSuchStudents = false;

printf(" %s : %d : %5.2f \n", students[i].name.data(), students[i].year, students[i].grant);

}

}

return noSuchStudents;

}

int main()

{

int studentCount;

Student\* students;

inputGroupStudents(students, studentCount);

//--------------- ------------------

if (searchStudentsByGrant(students,studentCount,1000))

{

cout << "No such students" << endl;

}

//-----------------------------------

delete[] students;

system("pause");

return 0;

}