// Fourth.cpp : 此文件包含 "main" 函数。程序执行将在此处开始并结束。

//

#include "pch.h"

#include <iostream>

#include "student.h"

#include <windows.system.h>

using namespace std;

int main()

{

system("color 70");

run();

}

//student.h

//

#pragma once

#ifndef \_\_STUDENT\_H\_\_

#define \_\_STUDENT\_H\_\_

#include <string>

using namespace std;

class Student

{

protected:

string name;

string No;

public:

Student()

{

name = "unset string";

No = "unset No";

}

void setName(string a)

{

name = a;

}

void setNo(string b)

{

No = b;

}

string getName()

{

return name;

}

string getNo()

{

return No;

}

};

class AutoStu : public Student

{

private:

int AutoScore;

string major;

public:

void setAutoScore(int a)

{

AutoScore = a;

major = "自动化专业";

}

int getAutoScore()

{

return AutoScore;

}

string getMajor()

{

return major;

}

};

class EleStu : public Student

{

private:

int EleScore;

string major;

public:

void setEle(int a)

{

EleScore = a;

major = "电子信息工程";

}

int getEleScore()

{

return EleScore;

}

string getMajor()

{

return major;

}

};

class IOTStu : public Student

{

private:

int IOTScore;

string major;

public:

void setIOTS(int a)

{

IOTScore = a;

major = "物联网工程";

}

int getIOTScore()

{

return IOTScore;

}

string getMajor()

{

return major;

}

};

void mune();

void run();

#endif // !\_\_STUDENT\_H\_\_

//student.cpp

//

#include "pch.h"

#include "student.h"

#include <iostream>

#include <iomanip>

using namespace std;

void mune()

{

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

cout << "1.输入自动化专业学生成绩 " << endl;

cout << "2.输入电子信息专业学生成绩 " << endl;

cout << "3.输入物联网专业学生信息 " << endl;

cout << "4.查询学生成绩" << endl;

cout << "请输入你的选择 ：" ;

}

void run()

{

AutoStu stu[20];

EleStu Estu[20];

IOTStu Istu[20];

int i = 0, j = 0 , k = 0;

while (1)

{

mune();

int choice;

cin >> choice;

cout << endl;

switch (choice)

{

case 1:

{

string name;

string No;

int score;

cout << "姓名：\t";

cin >> name;

cout << "学号：\t";

cin >> No;

cout << "成绩: \t";

cin >> score;

stu[i].setName(name);

stu[i].setNo(No);

stu[i].setAutoScore(score);

i++;

}

break;

case 2:

{

string name;

string No;

int score;

cout << "姓名：\t";

cin >> name;

cout << "学号：\t";

cin >> No;

cout << "成绩: \t";

cin >> score;

Estu[j].setName(name);

Estu[j].setNo(No);

Estu[j].setEle(score);

j++;

}

break;

case 3:

{

string name;

string No;

int score;

cout << "姓名：\t";

cin >> name;

cout << "学号：\t";

cin >> No;

cout << "成绩: \t";

cin >> score;

Istu[k].setName(name);

Istu[k].setNo(No);

Istu[k].setIOTS(score);

k++;

}

break;

case 4:

{

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

{

cout << setw(20) << "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl;

cout << setw(20) << "专业 \t|" << stu[o].getMajor() << endl;

cout << setw(20) << "姓名 \t|" << stu[o].getName() << endl;

cout << setw(20) << "学号 \t|" << stu[o].getNo() << endl;

cout << setw(20) << "自动控制理论成绩 \t|" << stu[o].getAutoScore() << endl;

}

for (int o = 0; o < j; o++)

{

cout << setw(20) << "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl;

cout << setw(20) << "专业 \t|" << Estu[o].getMajor() << endl;

cout << setw(20) << "姓名 \t|" << Estu[o].getName() << endl;

cout << setw(20) << "学号 \t|" << Estu[o].getNo() << endl;

cout << setw(20) << "信号与系统成绩 \t|" << Estu[o].getEleScore() << endl;

}

for (int o = 0; o < k; o++)

{

cout << setw(20) << "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl;

cout <<setw(20)<< "专业 \t|" << Istu[o].getMajor() << endl;

cout << setw(20) << "姓名 \t|" << Istu[o].getName() << endl;

cout << setw(20) << "学号 \t|" << Istu[o].getNo() << endl;

cout << setw(20) << "物联网专业C++成绩 \t|" << Istu[o].getIOTScore() << endl;

}

}

break;

}

}

}

