# 作业

编写一个学生类，私有数据成员为姓名，年龄，性别，选修课程，选修课程成绩。设置年龄相关的属性，

属性包括set和get方法，有参构造函数将年龄和姓名，选修课程初始化

另外，类还包括求选修课程成绩平均分的公有方法以及输出学生详细信息的公有方法

# 代码

主程序代码

using System;

namespace 编写学生类

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("请输入学生的姓名：");

string name = Console.ReadLine();

Console.WriteLine("请输入学生的年龄：");

int age = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("请输入学生的性别:");

string sex = Console.ReadLine();

Console.WriteLine("请输入学生的选修课程门数：");

int num = Convert.ToInt32(Console.ReadLine());

string[] course = new string[num];

double[] grade = new double[num];

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

{

Console.WriteLine("请输入学生的第" + (i + 1) + "门选修课程名：");

course[i] = Console.ReadLine();

}

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

{

Console.WriteLine("请输入学生的" + course[i] + "课程成绩：");

grade[i] = Convert.ToDouble(Console.ReadLine());

}

Student s1 = new Student(age, name,course,grade);

s1.setSex(sex);

s1.getSex();

s1.print();

s1.averageGrade();

Console.ReadKey();

}

}

}

//学生类程序代码

using System;

using System.Collections.Generic;

using System.Text;

namespace 编写学生类

{

class Student

{

private string name;

private string sex;

private int age;

private string[] course;

private double[] grade;

public Student(int age, string name, string[] course,double[] grade)

{

this.age = age;

this.name = name;

this.course = course;

this.grade = grade;

}

public void setSex(string sex)

{

this.sex = sex;

}

public string getSex()

{

return sex;

}

public void averageGrade()

{

double average\_grade = 0;

for (int i = 0; i <course.Length; i++)

{

average\_grade = average\_grade + grade[i];

}

Console.WriteLine("平均成绩:" + (average\_grade / course.Length));

}

public void print()

{

Console.WriteLine("姓名：" + name + "，性别：" + sex + ",年龄：" + age);

for (int i = 0; i <course.Length; i++)

{

Console.WriteLine("学生" + course[i] + "成绩为:" + grade[i]);

}

}

}

}

运行结果：

