package Day2;public class demo1 { enum BookType { /\*\*科学\*/ SCIENCE("科学"), /\*\*医学\*/ MEDICINE("医学"), /\*\*文学\*/ LITERATURE("文学"), /\*\*饮食\*/ FOODCOOKING("饮食"), /\*\*杂志\*/ MAGAZINE("杂志"); private String name; private BookType(String name){ this.name = name; } public String getName(){ return name; } } //出版社 enum Press { /\*\* 清华大学出版社 \*/ PHTHU("清华大学出版社"), /\*\* 北京大学出版社 \*/ PHPKU("北京大学出版社"), /\*\* 电子工业出版社 \*/ PHEI("电子工业出版社"), /\*\* 机械工业出版社 \*/ PHMI("机械工业出版社"), /\*\* 杂志期刊主办商 \*/ OM("杂志期刊主办商"); private String name; private Press(String name) { this.name = name; } public String getName() { return name; } } //性别 enum Sex{ MAN("男"), WOMAN("女"); private String name; private Sex(String name) { this.name = name; } public String getName() { return name; } } }package Day2;import Day2.demo1.BookType;import Day2.demo1.Press;public class Book { //图书名称 private String name; //图书类型 private BookType bookType; //出版社 private Press press; public Book(String name, BookType bookType, Press press){ this.name = name; this.bookType = bookType; this.press = press; } public String getName() { return name; } public void setName(String name) { this.name = name; } public BookType getBookType() { return bookType; } public void setBookType(BookType bookType) { this.bookType = bookType; } public Press getPress() { return press; } public void setPress(Press press) { this.press = press; }}

package Day2;import java.util.ArrayList;import java.util.List;import Day2.demo1.Sex;public class Reader { //读者姓名 private String name; //性别 private Sex sex; //借阅的图书 private List<Book> books; public Reader(String name, Sex sex){ this.name = name; this.sex = sex; books = new ArrayList<Book>(); } public String getName() { return name; } public void setName(String name) { this.name = name; } public Sex getSex() { return sex; } public void setSex(Sex sex) { this.sex = sex; } //借书动作 public void borrow(Book book){ books.add(book); } //打印借书信息 public void print(){ System.out.println("读者姓名："+ name +"　性别："+ sex.getName() +"　　该读者的借阅信息如下："); System.out.println("图书名称 　　　　 出版社　　　 借阅　　 编号　类型描述"); System.out.println("=================================================================="); for(Book book : books){ System.out.println(book.getName() +"　"+ book.getPress().getName() +"　？？？？　"+ book.getBookType().getName() +"　"+ book.getBookType().toString()); } System.out.println(""); }}

public class Student {

String name;

String sex;

Subject[] subjects;

class Subject{//成员内部类 课程

String subjectName;//课程名

SubjectType st;//课程类别，分为考试考察

int atten;//出勤

int assign;//作业

int lab;//实验

int finalExam;//期末

Subject(){//构造方法

}

Subject(String subjectName,SubjectType st,int atten,int assign, int lab,int finalExam){

this.subjectName = subjectName;

this.st = st;

this.atten =atten ;

this.assign = assign;

this.lab = lab;

this.finalExam = finalExam;

}

}

static class SubjectType{//静态内部类，课程类别与成绩划分

String type;//类别名

double attenRatio;//出勤占比

static final double assignRatio=0.1;//作业占比

static final double labRatio=0.1;//实验占比

double finalRatio;//期末占比

void setRatio(){//设置占比的方法 meizuomeizuomeizuomeizuomeizuomeizuomeizuo

if(type=="考试"){

attenRatio=0.1;

finalRatio=0.7;

}else{

attenRatio=0.1;

finalRatio=0.7;

}

}

SubjectType(){//构造方法

}

SubjectType( String type,double attenRatio,double finalRatio){

this.type = type;

this.attenRatio = attenRatio;

this.finalRatio =finalRatio;

}

}

Student(){//构造方法

}

Student(String name,String sex,Subject[] subjects){

this.name = name;

this.sex = sex;

this.subjects = subjects;

}

void printInfo(){//打印方法

class calcScore{//局部内部类 计算总分

int calcTotal(Subject sb){//meizuomeizuomeizuomeizuomeizuomeizuo

sb.st.setRatio();

int finalScore=(int)(sb.atten\*sb.st.attenRatio+sb.assign\*sb.st.assignRatio+sb.lab\*sb.st.labRatio+sb.finalExam\*sb.st.finalRatio);

return finalScore;

}

}

calcScore cs=new calcScore();

System.out.println("姓名:"+name+" "+"性别： "+sex);

System.out.println("课程"+"\t"+"性质"+"\t"+"出勤"+"\t"+"作业"+"\t"+"实验"+"\t"+"期末"+"\t"+"总分");

System.out.println("====================================================");

for(int i=0;i<subjects.length;i++)

System.out.println(subjects[i].subjectName+"\t"

+subjects[i].st.type+"\t"+subjects[i].atten+"\t"+subjects[i].assign+"\t"+subjects[i].lab+"\t"+subjects[i].finalExam+"\t"+cs.calcTotal(subjects[i])+"\t");

System.out.println();

}

public static void main(String[] args){

Student Stu1=new Student();//第一个学生对象

Stu1.name="李红";

Stu1.sex="女";

Stu1.subjects = new Subject[3];

Student Stu2=new Student();//第二个学生对象

Stu2.name="王晓明";

Stu2.sex="男";

Stu2.subjects = new Subject[3];

Student.SubjectType subjectType1 =new Student.SubjectType("考试", 0.1, 0.7);

Student.SubjectType subjectType2 =new Student.SubjectType("考查", 0.2, 0.6);

Stu1.subjects [0] = Stu1.new Subject("java",subjectType2,90,85,75,80);

Stu1.subjects [1] = Stu1.new Subject("SQL",subjectType1,80,90,82,75);

Stu1.subjects [2] = Stu1.new Subject("J2EE",subjectType2,78,70,65,70);

Stu1.printInfo();

Stu2.subjects [0] = Stu2.new Subject("java",subjectType2,86,67,71,71);

Stu2.subjects [1] = Stu2.new Subject("SQL",subjectType1,77,70,85,66);

Stu2.subjects [2] = Stu2.new Subject("J2EE",subjectType2,88,74,68,80);

Stu2.printInfo();

}

}