package school;

import javax.security.auth.Subject;

import java.util.ArrayList;

public class Student {

private int studentId;

private String studentName;

private Subject majorSubject;

private ArrayList<Score> scoreList = new ArrayList<Score>();

public Student(int studentId, String studentName, Subject majorSubject) {

this.studentId = studentId;

this.studentName = studentName;

this.majorSubject = majorSubject;

}

public void addSubjectScore(Score score) {

scoreList.add(score);

}

public int getStudentId() {

return studentId;

}

public void setStudentId(int studentId) {

this.studentId = studentId;

}

public String getStudentName() {

return studentName;

}

public void setStudentName(String studentName) {

this.studentName = studentName;

}

public Subject getMajorSubject() {

return majorSubject;

}

public void setMajorSubject(Subject majorSubject) {

this.majorSubject = majorSubject;

}

public ArrayList<Score> getScoreList() {

return scoreList;

}

public void setScoreList(ArrayList<Score> scoreList) {

this.scoreList = scoreList;

}

}

package school;

import java.util.ArrayList;

public class Subject {

private int subjectId;

private String subjectName;

private ArrayList<Student> studentList = new ArrayList<Student>();

public Subject(String subjectName, int subjectId){

this.subjectId = subjectId;

this.subjectName = subjectName;

}

public int getSubjectId() {

return subjectId;

}

public void setSubjectId(int subjectId) {

this.subjectId = subjectId;

}

public String getSubjectName() {

return subjectName;

}

public void setSubjectName(String subjectName) {

this.subjectName = subjectName;

}

public ArrayList<Student> getStudentList() {

return studentList;

}

public void setStudentList(ArrayList<Student> studentList) {

this.studentList = studentList;

}

}

package school;

import java.util.ArrayList;

import java.util.Scanner;

public class Score {

private int studentid;

private Subject subject;

private int point;

public Score(int studentid, Subject subject, int point){

this.studentid = studentid;

this.subject = subject;

this.point = point;

}

public String toString(){

return "학번:" + studentid + ", " + subject.getSubjectName() + ": " + point;

}

public int getStudentid() {

return studentid;

}

public void setStudentid(int studentid) {

this.studentid = studentid;

}

public Subject getSubject() {

return subject;

}

public void setSubject(Subject subject) {

this.subject = subject;

}

public int getPoint() {

return point;

}

public void setPoint(int point) {

this.point = point;

}

}

package utils;

public class Define {

public static final int *korean* = 1001;

public static final int *math* = 2001;

public static final int *ab\_type* = 0; // 일반과목

public static final int *sab\_type* = 1; // 필수과목

public static final int *pf\_type* = 2; // pass,fail

}

package grade;

public interface GradeEvaluation {

public String getGrade(int point);

//점수에 따른 학점을

//문자열로 반환해준다.

}

package grade;

public class BasicEvaluation implements GradeEvaluation{

@Override

public String getGrade(int point) {

String grade;

if (point >= 90 && point <= 100)

grade = "A";

else if (point >= 80 && point <= 89)

grade = "B";

else if (point >= 70 && point <= 79)

grade = "C";

else if (point >= 60 && point <= 69)

grade = "D";

else

grade = "F";

return grade;

}

}

package grade;

public class MajorEvaluation implements GradeEvaluation{

@Override

public String getGrade(int point) {

String grade;

if (point >= 95 && point <= 100)

grade = "S";

else if (point >= 90 && point <= 94)

grade = "A";

else if (point >= 80 && point <= 89)

grade = "B";

else if (point >= 70 && point <= 79)

grade = "C";

else if (point >= 60 && point <= 69)

grade = "D";

else

grade = "F";

return grade;

}

}

package school;

import java.util.ArrayList;

public class School {

private static School *instance* = new School();

private static String *SCHOOL\_NAME* = "Semyoung High School";

private ArrayList<Student> studentList = new ArrayList<Student>();

private ArrayList<Subject> subjectList = new ArrayList<Subject>();

private School() {}

public static School getInstance() {

if(*instance* == null)

*instance* = new School();

return *instance*;

}

public ArrayList<Student> getStudentList() {

return studentList;

}

public void addStudent(Student student) {

studentList.add(student);

}

public void addSubject(Subject subject) {

subjectList.add(subject);

}

public ArrayList<Subject> getSubjectList() {

return subjectList;

}

public void setSubjectList(ArrayList<Subject> subjectList) {

this.subjectList = subjectList;

}

}