import java.util.Scanner;  
  
public class EstuyanteMain{  
  
 public static void main(String[] args) {  
 // *TODO Auto-generated method stub* Scanner s = new Scanner(System.*in*);  
 int num;  
  
 BSITclass bsit = new BSITclass("Maria","2nd","23","BSIT","VB");  
 BSITclass bsit1 = new BSITclass(90,80,75,85,76,90);  
  
 BECEclass bece = new BECEclass("Maria","2nd","23","BECE","JAVA");  
 BECEclass bece1 = new BECEclass(98,80,80,80,80,80);  
  
 System.*out*.println("Type num: ");  
 num = s.nextInt();  
 if(num == 1){  
 System.*out*.println(bsit.toPrintString());  
 System.*out*.println(bsit1.toPrintStudentAssessment());  
 }else if(num == 0){  
 System.*out*.println(bece.toPrintString());  
 System.*out*.println(bece1.toPrintStudentAssessment());  
 }else{  
 System.*out*.println("Walang gagawin");  
 }  
  
 }  
}

public class BECEclass extends EstudClass{  
 private String studCourse;  
 private String studSubj;  
  
  
 public BECEclass() {  
  
 }  
  
 public BECEclass(String studName, String studYear,String studAge,String studCourse,String studSubj) {  
 super(studName,studYear,studAge);  
 this.studCourse = studCourse;  
 this.studSubj = studSubj;  
 }  
  
  
 public BECEclass(int quiz1,int quiz2,int quiz3,int unit1,int unit2,int term) {  
 super(quiz1,quiz2,quiz3,unit1,unit2,term);  
 }  
  
  
 public String getStudCourse() {  
 return studCourse;  
 }  
 public String getStudSubj() {  
 return studSubj;  
 }  
  
 public String toPrintString() {  
  
 return String.*format*("%s\n %s\n %s\n %s\n %s\n" ,  
 getName(),getYear(),getStudAge(),this.getStudCourse(),this.getStudSubj());  
 }  
  
 public String toPrintStudentAssessment() {  
  
 return String.*format*("%s\n %s\n %s\n %s\n %s\n %s\n",  
 "Quiz Ave: " + String.*valueOf*(getwtAve(getQuiz1(),getQuiz2(),getQuiz3())),  
 "Unit Ave: " + String.*valueOf*(getwtAve(getUnit1(),getUnit2())),  
 "Term : " + String.*valueOf*(getwtAve(getTerm())),  
 "Raw grd : " + String.*valueOf*(getRawgrd()),  
 "Finalgrd: " + String.*valueOf*(getFgrade()),  
 "Remark : " + getRemark());  
 }  
}

public class EstudClass {  
 //member variables  
 private String studName;  
 private String studYear;  
 private String studAge;  
  
  
 private int quiz1;  
 private int quiz2;  
 private int quiz3;  
  
 private int unit1;  
 private int unit2;  
  
  
 private int term;  
  
 public EstudClass() {  
  
 }  
  
 public EstudClass(String studName, String studYear,String studAge) {  
 this.studName = studName;  
 this .studYear = studYear;  
 this.studAge = studAge;  
  
 }  
  
 public EstudClass(int quiz1,int quiz2,int quiz3,int unit1,int unit2,int term)  
 { this.quiz1 = quiz1;  
 this.quiz2 = quiz2;  
 this.quiz3 = quiz3;  
 this.unit1 = unit1;  
 this.unit2 = unit2;  
 this.term = term;  
  
 }  
  
 public String getName() {  
 return studName;  
 }  
  
 public String getYear() {  
 return studYear;  
 }  
  
  
  
 public String getStudAge() {  
 return studAge;  
 }  
  
 public int getQuiz1() {  
 return quiz1;  
 }  
  
 public int getQuiz2() {  
 return quiz2;  
 }  
  
 public int getQuiz3() {  
 return quiz3;  
 }  
  
 public int getUnit1() {  
 return unit1;  
 }  
  
 public int getUnit2() {  
 return unit2;  
 }  
  
 public int getTerm() {  
 return term;  
 }  
  
 public double getwtAve(int quiz1,int quiz2,int quiz3) {  
 double weightedQ;  
 weightedQ = (double)(quiz1 + quiz2 + quiz3)/300 \*0.30 \* 100;  
 return weightedQ;  
 }  
  
 public double getwtAve(int unit1,int unit2) {  
 double weightedU;  
 weightedU = (double)(unit1 + unit2)/200 \*0.40 \* 100;  
 return weightedU;  
 }  
  
 public double getwtAve(int term) {  
 double weightedTerm;  
 weightedTerm = (double)(term)/100.00 \*0.40 \* 100.00;  
 return weightedTerm;  
 }  
  
 public double getRawgrd() {  
 double grd;  
  
 grd = getwtAve(quiz1,quiz2,quiz3) + getwtAve(unit1,unit2) + getwtAve(term);  
  
 return grd;  
  
 }  
  
 public double getFgrade() {  
 double fgrd;  
 if (getRawgrd()>=98 && getRawgrd()<=100) {  
  
 fgrd = 1.00;  
 }else if (getRawgrd()>=91 && getRawgrd()<=97) {  
  
 fgrd = 1.25;  
 }else if (getRawgrd()>=85 && getRawgrd()<=90) {  
  
 fgrd = 1.50;  
 }else if (getRawgrd()>=79 && getRawgrd()<=84) {  
  
 fgrd = 1.75;  
 }else if (getRawgrd()>=73 && getRawgrd()<=78) {  
  
 fgrd = 2.00;  
 }else if (getRawgrd()>=67 && getRawgrd()<=72) {  
  
 fgrd = 2.25;  
 }else if (getRawgrd()>= 61 && getRawgrd()<=66) {  
  
 fgrd = 2.50;  
 }else if (getRawgrd()>=55 && getRawgrd()<=60) {  
  
 fgrd = 2.75;  
 }else {  
 fgrd = 3.00;  
 }  
 return fgrd;  
 }//end of getFgrade  
  
 public String getRemark() {  
 String rem;  
  
 if (getFgrade() > 3.00){  
 rem = "Failed";  
 }else {  
 rem = "Passed";  
 }  
  
 return rem;  
  
 }  
}

public class BSITclass extends EstudClass {  
  
 private String studCourse;  
 private String studSubj;  
  
  
 public BSITclass() {  
  
 }  
  
 public BSITclass(String studName, String studYear,String studAge,String studCourse,String studSubj) {  
 super(studName,studYear,studAge);  
 this.studCourse = studCourse;  
 this.studSubj = studSubj;  
 }  
  
  
 public BSITclass(int quiz1,int quiz2,int quiz3,int unit1,int unit2,int term) {  
 super(quiz1,quiz2,quiz3,unit1,unit2,term);  
 }  
  
  
 public String getStudCourse() {  
 return studCourse;  
 }  
 public String getStudSubj() {  
 return studSubj;  
 }  
  
 public String toPrintString() {  
  
 return String.*format*("%s\n %s\n %s\n %s\n %s\n" ,  
 getName(),getYear(),getStudAge(),this.getStudCourse(),this.getStudSubj());  
 }  
  
 public String toPrintStudentAssessment() {  
  
 return String.*format*("%s\n %s\n %s\n %s\n %s\n %s\n",  
 "Quiz Ave: " + String.*valueOf*(getwtAve(getQuiz1(),getQuiz2(),getQuiz3())),  
 "Unit Ave: " + String.*valueOf*(getwtAve(getUnit1(),getUnit2())),  
 "Term : " + String.*valueOf*(getwtAve(getTerm())),  
 "Raw grd : " + String.*valueOf*(getRawgrd()),  
 "Finalgrd: " + String.*valueOf*(getFgrade()),  
 "Remark : " + getRemark());  
 }  
}

