public class ScoreCalc {

public static void main(String[] args) {

Student student;

System.out.println("\n Undergraduate Student");

student = new UndergraduateStudent("Philip");

student.setTestScore(0, 70);

student.setTestScore(1, 69);

student.setTestScore(2, 71);

student.setTestScore(3, 55);

System.out.println("Student Name: " + student.getStudentName());

System.out.println("Result: " + student.getTestResult());

System.out.println("\n Graduate Student");

student = new GraduateStudent("Jerry");

student.setTestScore(0, 70);

student.setTestScore(1, 69);

student.setTestScore(2, 71);

student.setTestScore(3, 55);

System.out.println("Student Name: " + student.getStudentName());

System.out.println("Result: " + student.getTestResult());

}

}

abstract class Student {

String studentName;

int[] testScores = new int[4];

String testResult;

Student(String studentName) {

this.studentName = studentName;

testResult = "Default";

}

abstract void generateResult();

void setTestScore(int testNumber, int testScore) {

testScores[testNumber] = testScore;

}

String getStudentName() {

return this.studentName;

}

void setStudentName(String studentName) {

this.studentName = studentName;

}

int[] getTestScores() {

return this.testScores;

}

String getTestResult() {

this.generateResult();

return testResult;

}

void setTestResult(String testResult) {

this.testResult = testResult;

}

}

class UndergraduateStudent extends Student {

UndergraduateStudent(String studentName) {

super(studentName);

}

@Override

void generateResult() {

int a[] = this.getTestScores();

int sum = 0;

for (int i = 0; i < 4; i++) {

sum += a[i];

}

int avg = sum / 4;

if (avg >= 60)

this.setTestResult("Pass");

else

this.setTestResult("Fail");

}

}

class GraduateStudent extends Student {

GraduateStudent(String studentName) {

super(studentName);

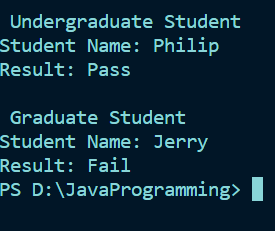
}

@Override

void generateResult() {

int a[] = this.getTestScores();

int sum = 0;

 for (int i = 0; i < 4; i++) {

sum += a[i];

}

int avg = sum / 4;

if (avg >= 70)

this.setTestResult("Pass");

else

this.setTestResult("Fail");

}

}