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package firstJavaApp;

import java.util.Scanner;

public class AssignmentArray{

static double getRate(int x, int y, double z) {

return (((x/y) \* 50) + 50) \* z;

}

public static void main (String[] args) {

Scanner scann = new Scanner(System.in);

String student = "";

int noOfQuiz = 0; //depends upon the input of user

int quiz[] = new int[noOfQuiz]; //Supposed to all items of quiz is 10

int noOfPerformance = 0; //depends upon the input of user

int performance[] = new int[noOfPerformance]; //Supposed to all items of performance is 20

int noOfExam = 0; //depends upon the input of user

int exam[] = new int[noOfExam]; //Supposed to all items of exam is 50

System.out.println("Enter Student Name?");

student = scann.nextLine();

System.out.println("Enter How many quiz?");

noOfQuiz = scann.nextInt();

quiz = new int[noOfQuiz];

int totalScore = 0;

for(int ctr= 0; ctr<quiz.length; ctr++){

System.out.println("Enter score of "+ (ctr+1) +" quiz:");

int score = scann.nextInt();

quiz[ctr] = score;

totalScore = totalScore + score;

}

int totalQuiz = 10 \* noOfQuiz;

double quizRate = getRate(totalScore, totalQuiz, 0.20);

System.out.println("Enter how many performance?");

noOfPerformance = scann.nextInt();

performance = new int[noOfPerformance];

int totalScore2 = 0;

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

System.out.println("Enter score of " + (i+1) + " Performance:");

int perfScore = scann.nextInt();

performance[i] = perfScore;

totalScore2 = totalScore2 + perfScore;

}

int totalPerf = 10 \* noOfPerformance;

double perfRate = getRate(totalScore2, totalPerf, 0.30);

System.out.println("Enter how many exam?");

noOfExam = scann.nextInt();

exam = new int[noOfExam];

int totalScore3 = 0;

for(int j = 0; j < exam.length; j++) {

System.out.println("Enter Score of " + (j+1) + " Exam:");

int examScore = scann.nextInt();

exam[j] = examScore;

totalScore3 = totalScore3 + examScore;

}

int totalExam = 10 \* noOfExam;

double examRate = getRate(totalScore3, totalExam, 0.50);

double totalGrade = quizRate + perfRate + examRate;

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

System.out.println("Total Quiz score: "+ totalScore);

System.out.println("Quiz Rate(20%): "+ quizRate);

System.out.println("Total Performance Score: " + totalScore2);

System.out.println("Performance Rate (30%): " + perfRate);

System.out.println("Total exam score: " + totalScore3);

System.out.println("Total exam rate(50%): " + examRate);

System.out.println("Total Grade: " + totalGrade);

}

}