import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner myScanner = new Scanner(System.in);

System.out.print("Enter student first name: ");

String firstName = myScanner.nextLine();

System.out.print("Enter student last name: ");

String lastName = myScanner.nextLine();

System.out.print("Enter student graduation year: ");

int gradYear = myScanner.nextInt();

Student student = new Student(firstName, lastName, gradYear);

System.out.print("Student created!");

System.out.println();

boolean keepGoing = true; // makes the loop start

while (keepGoing) {

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

System.out.println("------ Main Menu --------");

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

System.out.println("1. Add test score");

System.out.println("2. Update graduation year");

System.out.println("3. Print test average");

System.out.println("4. Print ALL student info");

System.out.println("5. Exit");

System.out.println();

System.out.print("Enter selection: ");

int num = myScanner.nextInt();

if (num == 1) {

System.out.print("Enter test score: ");

double score = myScanner.nextDouble();

student.addTestScore(score);

} else if (num == 2) {

System.out.print("Enter new graduation year: ");

int newYear = myScanner.nextInt();

student.setGradYear(newYear);

} else if (num == 3) {

double average = student.averageTestScore();

System.out.println("The student's average test score is " + average);

} else if (num == 4) {

System.out.println("ALL STUDENT INFO:");

student.printStudentInfo();

} else if (num == 5) {

keepGoing = false;

} else {

System.out.println("Invalid option!");

}

}

System.out.println("Have a nice day!");

}

}

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public class Student {

/\* Instance Variables \*/

private String firstName;

private String lastName;

private int gradYear;

private double accumulatedTestScores;

private int testScoreCount;

/\* Constructor; see note below \*/

public Student(String firstName, String lastName, int gradYear) {

this.firstName = firstName;

this.lastName = lastName;

this.gradYear = gradYear;

accumulatedTestScores = 0.0;

testScoreCount = 0;

}

/\* Getter Methods \*/

// returns firstName

public String getFirstName() {

return firstName;

}

// returns lastName

public String getLastName() {

return lastName;

}

/\* Setter Methods \*/

// Sets gradYear to newGradYear

public void setGradYear(int newGradYear) {

gradYear = newGradYear;

}

/\* All Other Methods \*/

// Adds newTestScore to accumulatedTestScores

// and increments testScoreCount by 1

public void addTestScore(double newTestScore) {

accumulatedTestScores += newTestScore;

testScoreCount++;

}

// Returns true if the student’s average test score is greater

// than or equal to 65; returns false otherwise (see Note 2 below)

public boolean isPassing() {

if (averageTestScore() >= 65) {

return true;

} else {

return false;

}

}

// Returns the Studentâ€™s average test score as the

// quotient of accumulatedTestScores and testScoreCount

public double averageTestScore() {

double average = accumulatedTestScores / testScoreCount;

return average;

}

// this method prints all info of a Student object to the console

public void printStudentInfo() {

System.out.println("Student Full Name: " + firstName + " " + lastName);

System.out.println("Graduation Year: " + gradYear);

System.out.println("Number of tests: " + testScoreCount);

System.out.println("Average Test Score: " + averageTestScore());

System.out.println("Is passing: " + isPassing());

}

}