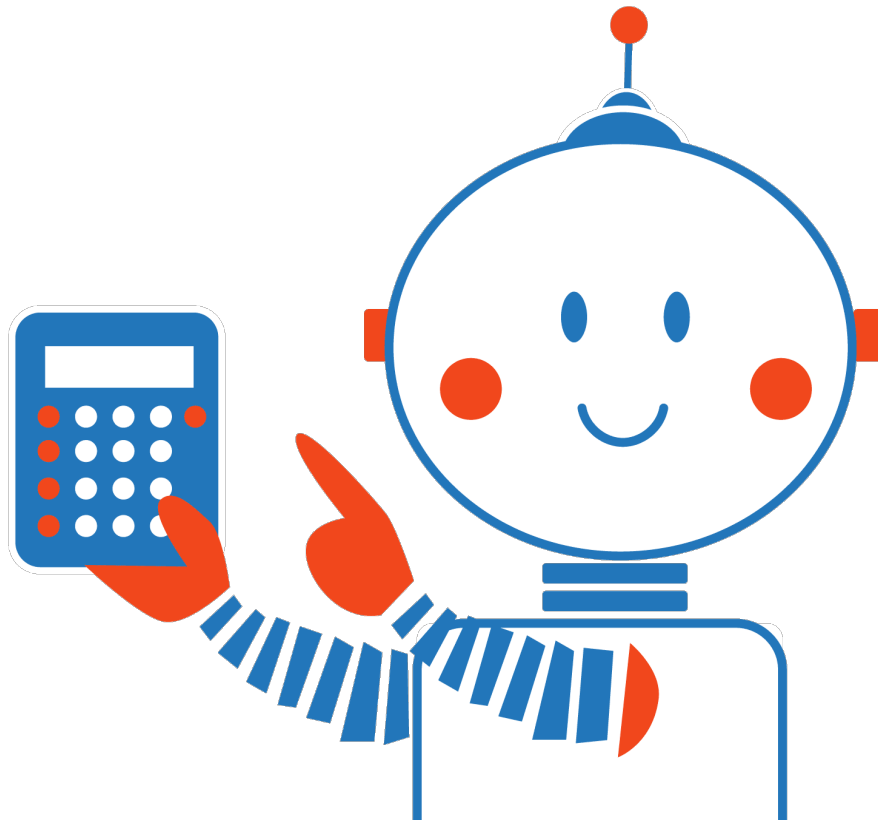# StudentGradeCalculator

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Abstract

In conclusion I made a program that execute the following statements: add student, set/get, calculate average grade (3 test as a base for average grade output), see grades for all students, exit program. It was not an easy way to get this to work from someone with no experience before in java. I Started with a plan and from there trying to accomplice one thing at a time so I would understand what I was doing and not only "doing". I had my speed bumps on the way to the end goal but I manage to create something out of all. Some of the problems that accord was main is not located, error 410 and assertion failed, this lead to program couldn't be tested and I was in this blind until I got on another computer I tried it out there and it was now I had to troubleshoot so I could get the program up and running. On Sunday evening I got the program to work and put out the information that I wanted, I then made fishing touches to my documentation and uploaded it to GitHub.

Until next assignment I hope I could make I more structured rapport/documentation in the beginning and having some more time in class to get advise and feedback.

Introduction

The purpose of this project is to communicate through Java and create a database that find and calculate the average student grade and with the data also look up certain students. I'm gonna be using some methods to try handling this data separately.

I started going through my notes from previous lesson and a hand full of google searching, this lead me with a good start.

I structure the program so you could add student, set id, see Grade, add grade/ testresult (0, 1, 2) and calculate average grade.
I made it easy to understand with a menu that you could easily can look up what information you need or adding additional information.

Lets jump in the project start.

What I need

A class which will contain:

Student Name

Student Id, Student Grades (an array of 3 grades)

A constructor that clears the student data (use -1 for unset grades)

Get functions for items a, b, and c, average, and letter grade

Set functions for items a, n, and c

get and set functions for Student grades need an argument for the grade index.

Another class which will contain:

An Array of Students (1 above)

A count of number of students in use

a menu interface that allows you to:

Add new students

Enter test grades

Display all the students with their names, ids, test grades, average, and letter grade

exit program

Basically

1.Creating a Student class that can perform the tasks requested

2.Creating an array of Student and loading it

3.Modifying the data in that array

4.Displaying results for all students

5.Proper indentation and comments

Tools:

Class: 1. student 2. studentgradecalculator

Methods: 1. Averagegrade 2. Add student 3. Add grade 4. See grade 5. Set id 6. Add test score

Tasks: Add student, Enter test grades, Display results, details of all students, exit program.

Keywords:

1. Name

2. Id

3. Grade

My documentation from day one to the last day

2021-11-08

Goal for today is start the project, find the tools I need to and what will they do.
Create a abstract with plans and goals. What I will accomplice.
Create a text file with name, id and grade for students.

2021-11-09
Create class Student and Studentgradecalculator
Give our class a state, constructor, behavior and getters.

I used 3 describing keywords such as Name, id and grade. What ill want to accomplice
is to create a program that we summon this classes so we can get name, grade and id.

2021-11-10
Wednesday I focused on creating a arraylist, as you might see its not in my program…
that's why I ran into my first problem I wasn't able to save my files when I left it at apple
service center. So I hade to create something new. I hade it pretty difficult and got
stuck so I did not put it in my final program.
But I manage to get add student and set/get id for student.

2021-11-11
Today I added in add grade, see grade and exit program. Average grade did work now
after a bit of tweaking. But still one problem I had was I couldn't run my program, later
that day I was looking it up on google that there is some sort of issue with Java and the
new m1 max Processor on the new MacBook pros.

2021-11-14
Sunday evening time to send in project, I wasn't able to create another class in time so
I only sent in the one that worked main (Studentgradecalculator).
I learned that structure planing is the key for easier work process and understanding
what I'm doing and trying to do.