Programing Assignment 1

Assignment: Create a program that reads in the student files. Each student will have 10 tests in each file.

1. Calculate Each Students average test score
2. Calculate the average test score of Each Test
3. Calculate the overall average test score for the class.

This zip file contains the following

1. Results.png
   1. Contains an image of the results of the command line
2. StudentFileCreator.java
   1. Generates the files for 20 students and gives them a test score between 0-100
      1. You don’t need to run this the files are already generated. I just added this in case you want to know how I generated the student information
3. StudentProgram.java
   1. The main program for this assignment. To know how to run this please go to the running the program Section
4. cs\_380\_project1\_student Folder
   1. Contains all the student files. Please read running the program to know where to place this file on your computer
5. Student\_0-Student\_19
   1. This contains the student information on their test scores which is written in json format. There are a total of twenty student files in this folder.
6. Programing Assignment 1 word file
   1. Contains the documentation of this assignment
7. Flow Chart
   1. Contains a flow chart on how the program works
8. Source Code
   1. Contains the source code to StudentProgram.java

Documentation:

1. The folder cs\_380\_project1\_student must be on your desktop for the program to run.
2. All files in the folder must follow the exact format. Student\_ + the student number.
3. You are not allowed to place any other files inside this folder. If you do there will be an error with the number of students.
4. If you are running this on a mac OS please make sure there is no .d\_Store file located in that folder. It is a hidden folder that handles the mac storage system on your computer.

Running the program.

1. You must run this program through a CMD. The results will be printed out onto the console.
   1. You can also run this program in eclipse
2. Instructions to running the program through cmd
   1. Copy and paste the following line into the cmd
      1. java -Xmx1G -jar
   2. Then drag the file StudentProgram.java into the CMD it should look something like this
      1. java -Xmx1G -jar C:\Users\ryanb\Desktop\cs\_380\_project\StudentProgram.jar
   3. Next click enter
      1. Errors that may occur
         1. Nothing comes out. If so please make sure that the cs\_380\_project1\_student folder is on the desktop
         2. If it cant find the jar file then you need to make sure there is a space between -jar and the file location

Program information

1. This program will give you the follow results.
   1. Each Students average Test score
   2. The average test score for each test from all the of students
   3. The overall average score for the entire class
2. The student file and grade information was randomly generated with the StudentCreater.java.
3. The formatting if the student files is written in Json format. This allows the system to read int the student information and not have any errors reading the student file.
4. Each Student has the follow in their file:
   1. ID
   2. Name
   3. Test\_score 1-10
      1. (remember it starts with test\_score\_0 because java starts its count with 0)