

Project3
CECS277 Fall 2021
Due September 20th 11:59 pm
Submit project3.java file before the deadline

Please make sure to follow the naming convention for project.
You don't need to send scores.txt file.

Make sure to use file exception handling using:

```
import java.io.FileNotFoundException;
```

Plagiarism/Academic Integrity Policy

Cheating and plagiarism will not be tolerated in this course. Students are to do their own assignments. Cases of copying, cheating, and plagiarism of assignments and/or tests, and any other violations, will be pursued to the maximum extent permitted by the University, which can include expulsion from the University. This applies equally to students who intentionally assist other students in academic dishonesty.

Any form of plagiarism or cheating will result in a failing grade on the assignment (at a minimum), and could result in a failing grade in the course or even university disciplinary action.

To learn more about the University policy on Cheating and Plagiarism, visit:

[Academic Information and Regulations-Cheating and Plagiarism](#)

Description:

Write a program that will read the information of students from scores.txt file. Your program should calculate student's average test scores and their letter grades. Use ArrayLists for this project. One ArrayList to store the student's names. The other ArrayList would store the test scores, and an ArrayList to store the letter grades. Your program should contain the following functions.

- **readData()** Method to reads and stores the data into two ArrayLists.
- **calculateAverage()** Method to calculate the average test scores and grades.

```
static double calculateAverage(ArrayList<Double> scores)
```

- **findLowestScore()** Finds the lowest score and returns it to the calculateAverage().

```
static double findLowestScore(ArrayList<Double> scores)
```

- **writeData()** Method to write the result into a file **result.txt**. This Method should write student name, average, and letter grade into the file.
- **classAverage()** This method will find the class average and returns it. Class Average will be stored as the last line in the result.txt file.

- **Use the following Criteria for letter grades.**

If Average is 98-100... Assign the grade "A+"

If Average is 95-97... Assign the grade "A"

If Average is 91-94... Assign the grade "A-"

If Average is 88-90... Assign the grade "B+"

If Average is 84-87... Assign the grade "B"

If Average is 80-83... Assign the grade "B-"

If Average is 75-79... Assign the grade "C+"

If Average is 70-74... Assign the grade "C"

If Average is less than 70 and greater than 60 assign grade "D"

If Average is less than or equal 60 assign grade "NC"