CSC 330 Spring 2023 Assignment #1 – Sets/Maps
Due: Sunday, January 29, 11:59pm

The objectives of this assignment are to:

1. Further enhance your knowledge and skill in Java.
2. Gain an understanding of data structures and collection classes.
3. Gain further experience in using Javadoc documentation.
4. Continue to practice good programming techniques.

Develop a menu-driven system that maintains a list of employees that pass through a gate system. Name the client program Assignment1.java. The program should begin by reading the employee.txt file: a CSV (comma separated value) text file in which each line in the file represents an employee that passes through the gate. The comma delimited fields are:

Fields	***Description***
Employee ID	String (unique for every employee)
First Name	String
Last Name	String
Salary	double

The program will then create an Employee object for each record in the file, and load the Employee object into a Map. The Map tracks employee attendance by counting how many times a unique Employee record is on the file. We discussed two types of Maps, pick one and implement the Employee object accordingly. The program will continue by displaying a menu for the user.

A menu will then be displayed, allowing the user the following options:

1. Display	Display all employees in list in *easy-to-read* tabular format
2. Add employee	Get employee information from user and add to the Map.
3. Search	Get EmployeeID input from the user and display the employee if they exist
0. Exit	Exit the menu.

After performing the appropriate action, display a new menu and repeat until user selects the exit option.

Requirements

- Your source code should abide by the Java programming standards for the course. Please format your code (Alt+Shift+F in NetBeans).
- Your source code should be documented using Javadoc style according to the course standards.
- Keep the main method clean. Only use it to call other helper methods. Your main method should not be more than 10 lines long.
- Use any file and class names specified in the assignment (`Employee.java`, `Assignment1.java`)
- Keep It Super Simple.

Deliverables:

1. Submit your single zip file (YourLastName1.zip). via Canvas.