PROJECT SPECIFICATIONS:

Using Bash to develop a mini-database system to manage employee information. Your database should allow users to insert, delete, modify and retrieve employee records. All the data in the database is stored in an external file called "employee.db".

Due: 3/10/2022

Here are some information for completing this project.

- o Employee information should include first name, last name, SSN, birth date, Salary.
- The format of the external file "employee.db" looks like (each field is separated by a while space):

Sophie Wang 111-00-1111 07-23-1965 100000 David Parker 100-00-1111 12-23-1945 200000 John Doe 888-88-888 11-02-2004 50000

- o Your program should support the following operations:
 - ✓ For INSERT operation, users need to provide all the information for an employee. Some information should be validated before they are entered into database. SSN should be exactly nine digits with "-" in between. First name and last name should contain less than 10 characters each. Birthday must be in the format of MM-DD-YYYY. Salary must be positive. Please note that every employee should have their unique SSN. If a new employee to be added to the database has the same SSN as an existing one, the new employee information will not be entered into the database and a warning message should be given.
 - ✓ For MODIFY operation, users need to provide the SSN first. Then the information for that employee will be retrieved and displayed. The users can modify the all the fields of an employee except the SSN. New information to be inserted must be validated (like INSERT) before the employee record is updated. Your program should prompt the users for confirmation for the final updated.
 - ✓ For DELETE operation, users need to provide the SSN. Before the employee record is deleted, your program should prompt the users for confirmation.
 - ✓ For RETRIEVE operation, the database should allow users to retrieve information by any one of the following criteria: 1) SSN 2) last name 3) first name 4) salary and display the information about the employees who meet the search criteria. The information displayed should look similar to below (nicely line-up and formatted) and sorted by the search criteria.

Employee Information

First Name	Last Name	SSN	BOD	SALARY
John	Doe	888-88-8888	11-02-2004	50000
Sophie	Wang	111-00-1111	07-23-1965	100000
David	Parker	100-00-1111	12-23-1945	200000

Make sure to use color in your console display to make it pleasant for users

- You should implement at least the following functions:
 - DisplayMenu function-> display a menu for users to make a selection of an operation.
 - Functions for Insert, Modify, Delete and Retrieve Operation
 - PrintDatabase->display data in proper format on screen
 - You may implement other functions needed during your implementation.
 - You should implement at least the following functions:

OTHER REQUIREMENTS

- o Make sure to start work on your project early and make steady progress.
- You are required to self-learning some Bash material for the project.
- o Make sure to test your program thoroughly before you hand in your program.
- o Make sure that you give proper names to your variables.

WHAT TO TURN IN

Upload your source code, testing plan and all the output generated from your testing to myClass.