Phone-Book

It is required to write a program that will create and maintain a phone directory. Each entry of the directory will include the name – last and first, the address, city, and the phone number. Entries should be sorted according to last name then first then phone number. Your program should allow the user to execute the following commands:

1- **LOAD:** This command reads in a file name and loads the phone directory from this file. The file is a text file that is comma delimited in which each entry is found on a separate line. Each entry must contain the last name, first name, street address, city and phone number. An example of one line in the file is as follows: **Mahmoud, Ahmed, 26 Elhoreya Street, Alexandria, 4876321**

2- **QUERY:** The system should process a request by the user to look up information about a specific entry. The user must supply the person's last name, and the system should provide the first name, address, city and phone number for all users of that last name.

3- **ADD:** The system should prompt the user field by field for the data of a single record and add it to the directory.

4- **DELETE:** The user should be prompted for the name – last and first and a record associated with that name should be deleted from the directory.

5- **MODIFY:** The user should be prompted for a last name. Then the user should be prompted field by field to modify the information for one of the records (selected by user) that have that last name.

6- **PRINT:** Print the entire directory, in sorted order.

7- **SAVE:** Save the directory by writing it out to an external file in a format similar to that explained in the Load command.

8- **QUIT:** Exit (without saving the directory in the external file).

Notes:

- The program should check for errors and print appropriate messages (e.g. trying to delete an entry that is not in the file).

- The program should validate entered data.
- Late submissions will not be accepted.
- You should work in groups of 2 (TWO).