**Machine Problem / COE197P**

**Deadline: December 23, 2018 EOD (11:59 PM)**

**Submit the following:**

1. **5-minute video presentation of your progress.**
2. **Respective script files.**

As a summer job, you opted to work as a receptionist at VP Enterprises. One of your tasks is to record the contact details of guests in an address book. Currently, this is being done manually and it was decided by the upper management to migrate this to a new workstation which is Linux-based. You decided to volunteer since you’re familiar with Linux and this will add credibility in your work performance.

***Here are the basic functionalities of the address book:***

1. Add Contact
2. Edit Contact
3. Delete Contact
4. View Contacts with sort and search functionality
5. Load Contacts via batch file
6. Logs functionality

***Notes:***

1. The number of details for a contact must be greater than seven (7).
2. For the sort functionality, it is forbidden to use the built-in command. Instead, use and implement any sorting algorithm. Ask the user on what field should the records be sorted.
3. For the search functionality, ask also the user on what field will the search be based upon.
4. Make sure to implement a menu.
5. For the load contacts via batch file, ask the user the location of the said file and add it to the address book.

Format of the batch file (semi colon separated):

User:Field2:Field3:FieldN

1. For the logs functionality, record all add/edit/delete and load contacts via batch file results and errors. Make sure that you handle all scenarios.
2. Modularization and optimization should be incorporated.