Due Date: Tuesday, December 05, 2017, 11:59am before class. This is an individual project. Submit your **only .cpp file of project and input/output files (not complete project folder)**. There will be viva also for this project. You need to come to my office and present me your project. If you will fail to visit me than your project will not be graded and you will get 0 marks in it. *Submit your project in electronic format only (canvas only, do not email me), no need of paper copy.*

This project is based on the Video Store. The Video Store will do the following tasks:

- Rent a video; that is, check out a video.
- Return, or check in, a video.
- Create a list of videos owned by the store.
- Show the details of a particular video.
- Print a list of all the videos in the store.
- Check whether a particular video is in the store.
- Maintain a customer database.
- Print a list of all the videos rented by each customer.

The video store has two major components: videos and customers. The common things associated with a video are as follows:

- Title of the movie
- Names of the stars
- Name of the producer
- Name of the director
- Name of the production company
- Number of copies in the store

The class videoType will be used to implement a video. The customer object stores information about a customer, such as the first name, last name, account number, and a list of videos rented by the customer.

The class customerType will be used to implement a customer. The basic operations on an object of type customerType are as follows:

- Print the name, the account number, and the list of rented videos.
- Set the name and the account number.

- Rent a video; that is, add the rented video to the list.
- Return a video; that is, delete the rented video from the list.
- Show the account number.

The video store will maintain various lists:

- A list of all the videos in the store.
- A list of all the store's customers.
- Lists of the videos currently rented by each customer

Use the function createVideoList to read the videos data from the videos input file and create a list of videos.

Use another function, createCustomerList, to read the customers data from customers input file and create a list of customers.

Use the function displayMenu to inform the user what to do.

- We studied several data structures in this course, select and implement a good data structure that can be used for this problem to search the videos by title.
  - Provide justification for your selection.(during viva)
- Complete the design and implementation of the Video Store program.
  - Submit the source code of the implemented program.

Wish You Best of Luck