START

main();

menu();

ch : **decision**

ch = 1 : (add V)

call addVideo

**Output** segment title and movie details prompt

**input**

title

genre

production

copies

image filename

assign as attributes of nodes

ch = 2 : (rent V)

**input** customer ID to rent

Call showDetails function to print movie details

call rentVid

**Input** movie ID to rent (int rentMovieCode)

Push (process) the value of rentMovieCode to rentVIdeo

Push() current customer ID to cStack

**Input** movie ID to be rented

Push() movie ID to videos stack

**Dec**: do u want to rent more?

Y

**Point back to input mID**

N

Decrement() number of vidCopy of current moveNode

Call() saveRent

ch = 3 :

ch = 4 : **input** vidID to show Details

Call the function vidDetails and assigning the vidID to myID

Assigning nodePtr to check if the vidID matches myID

If it matches, Displays the vidTitle,vidGenre,vidProd and vidImage

Genre

ch = 5 : Call the function vidDisplay Displaying all of the contents stored in the nodePtr including the vidID; vidTitle,vidGenre,vidProd

ch = 6: input ID to check the availability of the video

Call the function vidAvail and assigning the vidID to my ID

Assigning nodePtr to check if the vidID matches myID

And the vidCopy is == 0,

displays the movie is not available if it matches

Else

If nodePtr vidID and myID is equal

DIsplays the vidTitle and vidCopy

ch = 7 :

Input csChoice

Case 1:

Call the function AddCustomer();

Customer ID is autogenerated using increment

customerID ++

Enter name customerName

Enter address customerAddress

//will be push here

cIDQueue.push(customerID);

cNameQueue.push(customerName);

cAddressQueue.push(customerAddress);

Case 2:

Call the function ShowDetails();

Displays customer ID = CsChoice

Customer name = cNameQueueNew.front()

Customer Address = cAddressQueueNew.front()

Case 3:

Call the function ListRented();

User will input customerID

The user value input will be store in the function ShowDetails

Displays the ID number and Movie Title

vidID vidTitle

Call the function vidLoad() to displays the value of vidID and vidTitle

ch = 8 :

Call the the function saveMovie() in the video

Input the movielist.txt

Remove the tempmovie.txt

Create tempmovie.txt

Store the movieSize

Create a while loop to store the vidID, vidTitle, vidGenre, vidProd, vidCopy, and vid IMage

Close the infile and outFilevi

Remove movielist.txt

Renaming the tempmovie.txt into movielist.txt

Call the function saveCustomers()

Output the file customer.txt

cIDQueue, cNameQueue, cAddressQueue will be move to front then pop to save the file