UNIVERSITI TUNKU ABDUL RAHMAN

ACADEMIC YEAR 2022/2023

Wholly owned by UTAR Education Foundation
(Co. No. 578227-M)
DU012(A)

UCCD 1004 PROGRAMMING CONCEPTS AND PRACTICES

ASSIGNMENT 2

Group 124			
Name	**ID**	**Programme**	**UTAR Email**
TAN KIA YEE	22ACB06932	CS	kiayee@1utar.my
TAN QI YANG	22ACB07140	CS	tanqiyang02@1utar.my
OOI KHAI SHEN	22ACB07092	CS	ksooi1231@1utar.my

Table of Content

Task Division

	Name	Modules	Description	*A2 Contribution (Overall, %)	
1.	TAN KIA YEE	Show Movie	Show Movie List for admin	1	
		Add Movie	Allow admin to add new movie for the cinema.	2	
		Edit Movie	Allow admin to edit the movie available	3	
		Book Movie	Allow users to book their favourite movie	4	
2.	TAN QI YANG	Admin Login	Allow admin to login to admin interface	1	
		Delete Movie	Allow admin to edit the movie available	2	
		Cancel Booking	Allow the users to cancel their booking.	3	
		View Transaction	Allow admin to view the transaction of the users	4	
3.	OOI KHAI SHEN	User Login/ Register	Allow users to register new account and use it to login user interface	1	
		Movie Description	Show Movie List with description to users	2	
		Show History	Show the booking history of the users	3	
		Payment	Allow users to make payment for their booking.	4	

// All the modules we discuss and did it together.

Objective

The application program chosen to design and develop is Cinema Ticketing System. The objective of this program is to allow admin to manage movie setting and users to book the movie. Admin's interface should have the functions including Show Movie, Add Movie, Edit Movie, Delete Movie and View Transaction while the users' interface should have some functions including Show Movie Description, Book Movie, Show History, Cancel Booking and Payment.

Pseudocode

Declare function prototype:

userUI(), logadmin(), admin(), home(), mainpage(), addMovie(), editMovie(), deleteMovie, ViewTrans(), adminShowMovie), LoginRegister(), Register(), Login(), userExist(string email_1), showMovie(), bookMovie(), showHistory(), paybill(), storeInfoInArray(int&), storeBookedInfoInArray(int&)

Using appropriate data type declare global array variables:

MovieTitle[100], MovieDesc[100], MoviePrice[100]={0}, MovieSeat[100], startTime[100], endTime[100], bMovietitle[100], bMovieStartTime[100], bMovieEndTime[100], bNumMovieSeat[100], bMoviePrice[100]

Using appropriate data type declare global variables:

i=0, title, describe, price, seat, sTime, eTime, totalPrice=0, totalBookedMovie=0, btitle, bSeat, bPrice, bStartTime, bEndTime, paidStatus=”No Paid”, totalMovie=0, username

Function: main()

```
Call function mainpage()
Call function homepage()
```

Function: mainpage()

```
Output mainpage() interface
Pause
```

Function: home()

```
Clear screen
Output home() interface
Declare character array interfaceChoose[10]
Ask user to choose the desire interface and store in interfaceChoose array
    Do
        If interfaceChoose != 1 character
            Output error, ask user to enter one character only.
            Continue loop
        Else if interfaceChoose =  “A” or “a”
            Call function logadmin()
        Else if interfaceChoose = “G” or “g”
            Call function LoginResgister()
            Call function userui()
        Else if interfaceChoose = “E” or “e”
            Output goodbye word
            Terminate
            Pause
        Else
            Output error, ask user to enter valid input
    As long as the input is not “A”, “a”, “G”, “g”, “E” or “e”
```

Function: loginadmin()

```
Declare character array id[50]
Declare character array pass[50]
Declare correct = true as boolean
Do
    Clear screen
    Output login() interface
    Ask user to enter username and store in variable id
    if id = “admin”
```

```
                ask user enter password and store in pass
                if pass = “admin”
                        Output username and password correct
                        Correct = false
                        Pause
                        Call function admin()
                Else
                        Output password is wrong and hint given
                        Pause
        Else
                Output username is wrong and hint given
                Pause
As long as correct = true
```

Function: admin()

```
Clear screen
Set character array choice[20]
Declare stop = true as boolean
Output Admin() interface
Do
        Ask user enter their choice and store in choice array
        If the choice !=  one character
                Output ask user to input one character only
                Continue loop
        Else
                If choice = 1
                        Call function adminShowMovie()
                        End loop
                Else if choice = 2
                        Call function addMovie()
                        End loop
                Else if choice = 3
                        Call function editMovie()
                        End loop
                Else if choice = 4
                        Call function deleteMovie()
                        End loop
                Else if choice = 5
                        Call function ViewTrans()
                        End loop
                Else if choice = 6
                        Call function home()
                        End  loop
                If choice = 7
                        Terminate
                        Pause
                Else
                        Output ask user enter input 1-7 only
                        Continue loop
As long as stop = true
```

Function: adminShowMovie()

```
Clear screen
Output adminShowMovie() interface
Call function storeInfoInArray(totalMovie)
```

```
Declare i = 0 as integer
For i in the range i < totalMovie - 1
i++
          Output movie title = MovieTitle[i]
          Output movie description = MovieDesc[i]
          Output price = MoviePrice[i]
          Output available seat = MovieSeat[i]
          Output start time = startTime[i]
          Output end time = endTime[i]
Pause
Call function admin()
```

Function: addMovie()

```
Clear screen
Declare newMovieTitle and MovieDesc as string
Declare price as double
Declare seat, addedM = 0 as integer
Declare sTime, eTime as string
Declare outMovieFile as ofstream
Open txt file named “MovieList” to append data inside
Declare character array choice[20]
Output addMovie() interface
Declare again = true as boolean
Declare yes = true as boolean
Do
          Ask user for new movie title
          Read user input into newMovieTItle variable using getline function
          Store the newMovieTitle into outMovieFile

          Ask user for new movie price and store into price variable
          Store the price into outMovieFile

          Ask user for new total seat and store into seat variable
          Store the seat into outMovieFile

          Ask user for new movie description
          Read user input into MovieDesc variable using getline function
          Store the MovieDesc into outMovieFile

          Ask user for new movie starting time
          Read user input into sTime variable using getline function
          Store the sTime into outMovieFile

          Ask user for new movie ending time
          Read user input into eTime variable using getline function
          Store the eTimeinto outMovieFile
          addedM++

          Do
                    Ask user whether to continue add movie and store into choice
                    If choice !=  one character
                              Output asks the user to enter one character only.
                    Else
                              If choice = “Y” or “y”
                                        Break loop
```

```
            Else if choice = “N” or “n”
                again = false
                yes = false
                Output user total movie they added
                Pause
            Else
                Output ask user to enter “y” or “n” only
    As long as yes = true
As long as again = true
Close outMovieFile
Clear screen
Call function admin()
```

Function: editMovie()

```
Clear screen
Call function storeInfoInArray(totalMovie)
Display editMovie interface
Declare i = 0 as integer
For i < totalMovie - 1
i++
    Output movie title = MovieTitle[i]
    Output description = MovieDesc[i]
    Output price = MoviePrice[i]
    Output Total seat = MovieSeat[i]
    Output start time = startTime[i]
    Output end time = endTime[i]
Declare check = false as boolean
Declare choice as integer
Do
    Ask user to input the number of movie to be edit and store in choice variable
    If choice > totalMovie -1 or  choice < totalMovie -1
        Output invalid. Ask user only input number in range
    Else
        Check = true
As long as check = false
Declare i = 0 as integer
For i in the range i < totalMovie - 1
i++
    If i = choice - 1
        Output editMovie() interface
        Declare character array editChoice[20]
        Declare stop = true as boolean
        Do
            Ask user which part to edit and store in editChoice array
            If editChoice = “A” or ”a”
                Declare newTitile as string
                Ask user to input new title and store in newTitle variable
                using getline function
                Update newTitle to MovieTitle[i] array
                Output new title has updated
                Stop = false
            Else if editChoice = “B” or ”b”
                Declare newDescription as string
                Ask user to input new description and store in
                newDescription variable using getline function
```

```
                    Update newDescription to MovieDesc[i] array
                    Output new description has updated
                    Stop = false
                Else if editChoice = “C” or ”c”
                    Declare newPrice as double
                    Ask user to input new price and store in newPrice variable
                    Update newPrice to MoviePrice[i] array
                    Output new price has updated
                    Stop = false
                Else if editChoice = “D” or ”d”
                    Declare newSeat as integer
                    Ask user to input new seat and store in newSeat variable
                    Update newSeat to MovieSeat[i] variable
                    Output new seat has updated
                    Stop = false
                Else if editChoice = “E” or ”e”
                    Declare newStartTime as string
                    Ask user to input new starting time and store in
                    newStartTime variable
                    Update newStartTime to startTime[i] array
                    Output new starting time has updated
                    Stop = false
                Else if editChoice = “F” or ”f”
                    Declare newEndTime as string
                    Ask user to input new ending time and store in newEndTime
                    variable
                    Update newEndTime to endTime[i] array
                    Output new ending time has updated
                    Stop = false
                Else
                    Output invalid. Ask user to try again
            As long as stop = true
    Declare outMovieFile as ofstream
    Open txt file named “MovieList”
    Declare i = 0 as integer
    For all element i in the range i < totalMovie -1
    i++
        Update the MovieTitle[i] into outMovieFile
        Update the MoviePrice[i] into outMovieFile
        Update the MovieSeat[i] into outMovieFile
        Update the MovieDesc[i] into outMovieFile
        Update the startTime[i] into outMovieFile
        Update the endTime[i] into outMovieFile
    Pause
    Call function admin()
```

Function: deleteMovie()

```
    Declare n as integer
    Clear screen
    Output deleteMovie interface
    Declare DeleteMovieFile as ofstream
    Call function storeInfoInArray(totalMovie)
    n = totalMovie
    Declare i = 0 as integer
    For each element of i in range of i < n - 1
    i++
        Output the movie title = MovieTitle[i]
    Ask user which movie to be delete and store into i variable
    Output the movie has been deleted
    Update i = i
    For each element i in the range of i until n-1
    i++
        Update the data of MovieTitle[i] to MovieTitle[i – 1]
        Update the data of MoviePrice[i] to MoviePrice[i – 1]
        Update the data of MovieSeat[i] to MovieSeat[i – 1]
        Update the data of MovieDesc[i] to MovieDesc[i – 1]
        Update the data of startTime[i] to startTime[i – 1]
        Update the data of endTime[i] to endTime[i – 1]
    n– –
    Open txt file named “MovieList”
    Declare i = 0 as integer
    For each element i in range i < n - 1
    i++
        Update the MovieTitle[i] into DeleteMovieFile
        Update the MoviePrice[i] into DeleteMovieFile
        Update the MovieSeat[i] into DeleteMovieFile
        Update the MovieDesc[i] into DeleteMovieFile
        Update the startTime[i] into DeleteMovieFile
        Update the endTime[i] into DeleteMovieFile
    Pause
    Call function admin()
```

Function: ViewTrans()

```
    Clear screen
    Output ViewTrans() interface
    Declare line as string
    Declare adminview as ifstream
    Open txt file named “AdminView”
    If file is open
        As long as there are line inside the txt file, read into line variable using getline function
            Output line
        Close the file
    Pause
    Call function admin()
```

Function: LoginRegister

```
    Clear screen
    Declare character array choose[100]
    Declare check = false as boolean
    Do
        Ask user have account before or not and store in choose array
        If choose != one character
            Output Error. Ask user to input one character only
        Else if yes
            Check = true
            Call function Login()
        Else if not
            Check = true
            Call function Register
        Else
            Output error. Ask user to input valid input only
            Pause
            Call function LoginRegister()
    As long as check = true
```

Function: userExist(string email)

```
    Declare userregister(“usseregister.txt”) as ifstream
    If “usseregister.txt” file is open
        Declare username, password, email as string
        As long as not until the end of the file
            Read the data in the file in following sequence: email, password, username
            If the user input email_1 = email variable
                Close userregister file
                Return true
                Break while loop
            Close userregister file
        Return false
```

Function: Register()

```
    Clear screen
    Declare email_1, email_2, password_1, password_2 as string
    Open “userresgister.txt” file
    If “userresgister.txt” file is open
        Ask user to enter email and store in email_1 variable
        Ask user to re enter email and store in email_2 variable
        While email_1 not equal to email_2
            Output “email do not match” and ask user to enter again email
        If function userExist return true
            Output “Account already exist, proceed to login interface”
            Call function Login();
        Ask user to enter password and store in password_1
        Ask user to re-enter password and store in password_2
        While password_1 not equal to password_2
            Output “Password do not match” and ask user to enter again password
        Ask user to set a username and store into username variable

        Write the email_1, password_1 and username into “userregister.txt”
        Thanks the user to register an account
        Close the file “userregister.txt”.
        Function call Login().
    Else
        Output”Cannot open the file”
```

Function: Login()

```
    Clear screen
    Declare _password and _input as a string
    Declare loggedIn as a boolean and equal to false
    Ask user to enter registered email or username and store into _input
    Ask user to enter password and store into _password
    Open file “userregister.txt”
    If “userregister.txt” is open
        Declare email, username and password as string
        While not end of file
            Read the line and store into email variable
            Read the line and store into password variable
            Read the line and store into username variable
            If email = _input and password = _password
                loggedIn = true
                Store the _input into “username.txt” file
            Else if username = _input and password = _password
                loggedIn = true
            Else loggedIn = false;
        Close the “userregister.txt” file
        If loggedIn=true
            Output “Login successful”
            Call function userUI()
        Else
            If password not equal to _password
                Output ”Password incorrect”
            Else
                Output “User no found”
        While loggedIn = false
            Let user choose to proceed to login or register
            If user choose login
                Call function Login();
            If user choose register
                Call function Register();
    Else
        Output “Fail to open the user file”
        Call function LoginResgister();
```

Function: userUI()

```
    Clear screen
    Show the main menu
      1. Movie description
      2. Book movie
      3. Show history
      4. Cancel booking
      5. Payment
    Let user to choose the interface
    If user choose 1
        Call function showMovie()
    If user choose 2
        Call function bookMovie()
    If user choose 3
        Call function showHistory()
    If user choose 4
        Call function cancelBooking()
    If user choose 5
        Call function paybill()
    If user choose 6
        Call function homel()
```

Function: showMovie()

```
    Call function storeInfoInArray(totalMovie);
    For i less than totalMovie -1
        Output Movietitle[i]
        Output MovieDesc[i]
        Output MoviePrice[i]
        Output MovieSeat[i]
        Output startTime[i]
        Output endTime[i]
        i + 1
    Function call userUI()
```

Function: bookMovie()

```
    Declare noSeat as integer
    Function call storeInfoInArray(totalMovie);
    Let i = 0, for i less than totalMovie -1
        Output Movietitle[i]
        Output MovieDesc[i]
        Output MoviePrice[i]
        Output MovieSeat[i]
        Output startTime[i]
        Output endTime[i]
        i + 1
    Declare integer movieChoice and bookedMovieNo;
    Ask user whether want to continue to book movie
    If yes
        Ask user to select the movie that they want to book .
        If the MovieSeat for the movie chosen less than  or equal to 0
            Output "The movie was sold out"
        Else
            Ask user to select the number of seat they want to book and store in noSeat
    variable
            If noSeat more than the MovieSeat
                Output "The seat no enough"
            Else
                Let user know the booking of seat was success
            MovieSeat of the movie = MovieSeat of the movie - noSeat
            Declare n = totalMovie
            Open "MovieList.txt"
            Let i = 0, for i less than totalMovie -1
                Write Movietitle[i] into file
                Write MovieDesc[i] into file
                Write MoviePrice[i] into file
                Write MovieSeat[i] into file
                Write startTime[i] into file
                Write endTime[i] into file
                i + 1
            Close "MovieList" file
            Open (""temp_booked_movie_info.txt"") file
            Store MovieTitle of the user choice
            Store noSeat of the user choice
            Store MoviePrice of user choice
            Store startTime of user choice
            Store endTime of user choice
            Close file
    If no
        Function call userUI()
    Otherwise
        Output "Invalid input"
        Function call bookMovie();
    Function call userUI()
```

Function: showHistory()

```
    Declare totalPrice as double and initialize to 0
    Clear screen
    Function call storeBookedInfoArray(totalBookedMovie)
    Open “username.txt” file
    While not end of the file
        read the line and store in username variable
    Close file

    If totalMovie less than or equal to 0
        Let user choose Y to book ticket or leave
        If user choose = Y
            Function call bookMovie()
        Otherwise
            Function call userUI()
    Otherwise
        Output “This is your history”
        Let i = 0, for i less than totalBookedMovie -1
            Output bMovietitle[i]
            Output bNumMovieSeat[i]
            Output bMoviePrice[i]
            Output MovieSeat[i]
            Output bstartTime[i]
            Output endTime[i]
            i + 1
        Let i = 0, for i less than totalBookedMovie -1
            totalPrice = totalPrice + (bMoviePrice[i] * bNumMovieSeat[i])
        Output totalPrice
        Output paidStatus
        Ask user want to make payment or not?
            If yes
                Function call paybill()
            If not
                Function call userUI()
            Otherwise
                Function call showHistory()
```

Function: cancelBooking

```
    Clear screen
    Output “Cancel Booking”
    Function call storeBookedInfoInArray(totalBookedMovie)
    If totalBookedMovie less than or equal to 0
        Output ”Empty”
        Output “You have no book any movie”
        Function call userUI()
    Let i = 0, for i less than totalBookedMovie -1
            Output bMovietitle[i]
            Output bNumMovieSeat[i]
            Output bMoviePrice[i]
            Output MovieSeat[i]
            Output bstartTime[i]
            Output endTime[i]
            i + 1
    Ask user to choose the movie that want to cancel and store the variable into choice
    If choice more than totalBookedMovie or less than equal to zero
        Output “Please key in movie in range only”
        Function call cancelBooking()
    Otherwise
        Output “The movie was deleted”
        Initialize i = choice, for i less than totalBookedMovie -1
            bMovietitle[i - 1] = bMovietitle[i];
            bNumMovieSeat[i - 1] = bNumMovieSeat[i];
            bMoviePrice[i - 1] = bMoviePrice[i];
            bMovieStartTime[i - 1] = bMovieStartTime[i];
            bMovieEndTime[i - 1] = bMovieEndTime[i];
            i + 1
        Open “temp_booked_movie_info.txt” file
        Initialize i = 0, for i less than totalBookedMovie - 2
            store bMovietitle[i] into file;
            store bNumMovieSeat[i]  into file;
            store bMoviePrice[i]  into file;
            store bMovieStartTime[i]  into file;
            store bMovieEndTime[i]  into file;
            i + 1
        Close the file
        Function call userUI()
```

Function: paybill()

```
    Clear screen
    storeBookInfoInArray(totalBookedMovie)
    Ask user whether want to make payment or not
    If yes
        Initialize i = 0, for i less than totalBookedMovie - 1
            totalPrice = totalPrice + (bMoviePrice * bNumMovieSeat)
            i + 1
        Output totalPrice
        Ask user to confirm the payment
        If yes
            Output “Payment done”
            Open “username.txt” file
            Read line from the file and store in username variable
            Close file
            Open (“adminView.txt”)
            Write username into the file
            Close file
            Initialize i = 0, for i less than totalBookedMovie - 1
                Write bMovietitle[i] into file
                Write bNumMovieSeat[i] into file
                Write bMoviePrice[i] * bNumMovieSeat[i] into file
                i+1
            Write totalPrice into the file
            Write “Payment: paid ” into file
            Close the file
            Open "temp_booked_movie_info.txt" file
            Over write “” into file
            Close the file
            Function call userUI()
        Otherwise output “Exit the payment”
        Function call userUI()
```

Function: storeBookedInfoInArray(int& totalBookedMovie)

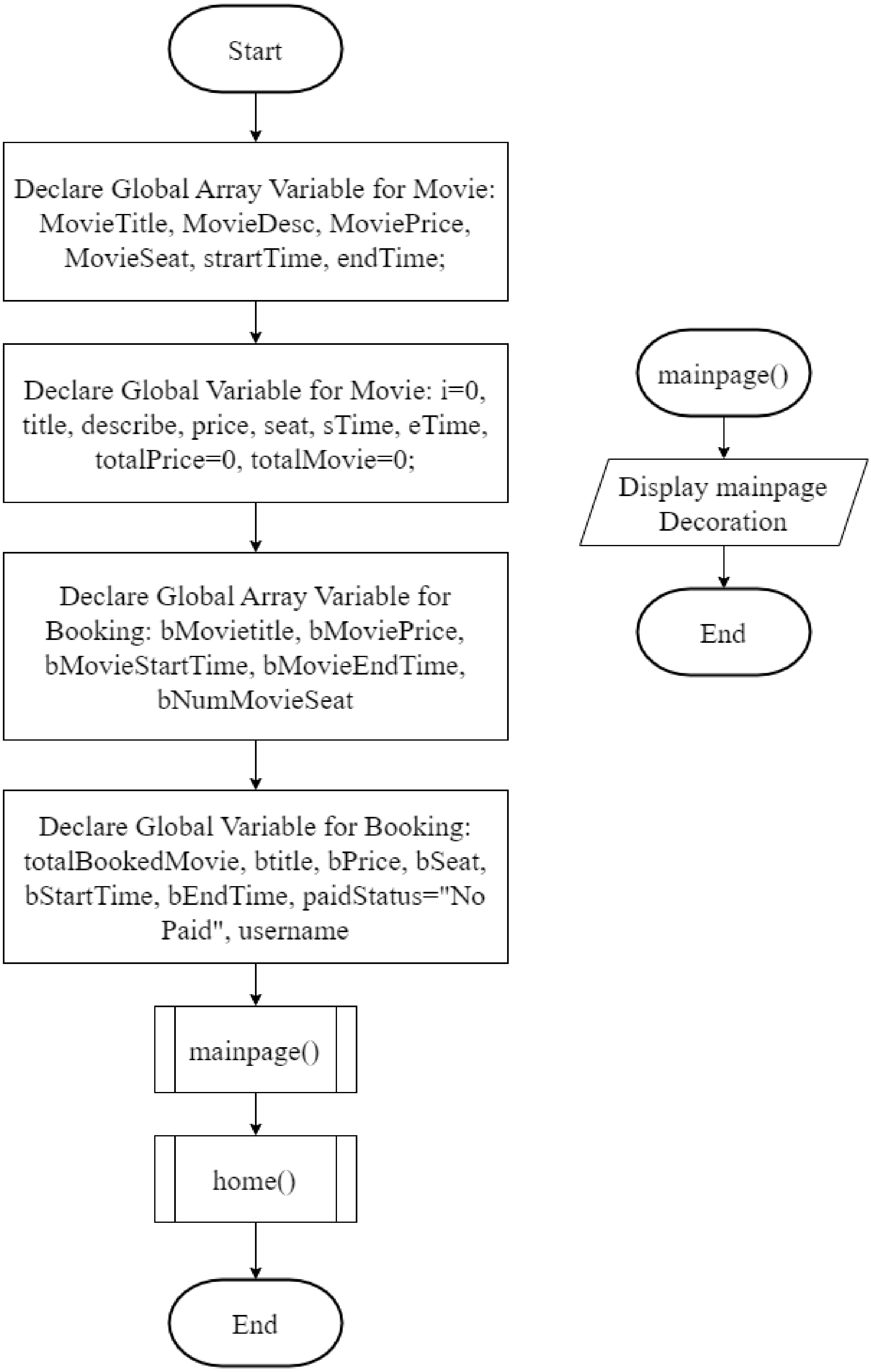
```
    Declare total = 0 as integer
    Declare i = 0 as integer
    Open "temp_booked_movie_info.txt" file
    If file is open
        While not end of the file
            Read line of the file and store in btitle variable
            bMovietitle[i] = btitle
            Read line of the file and store in bSeat variable
            bNumMovieSeat[i] = bSeat
            Read line of the file and store in bprice variable
            bNumMoviePrice[i] = bprice
            Read line of the file and store in bStartTime variable
            bStartTime[i] = bStartTime
            Read line of the file and store in bEndTime variable
            bEndTime[i] = bEndTime
            i = i +1
            total = total + 1
    totalBookedMovie = total
    Close file
```

Function: storeInfoInArray(int& totalMovie)

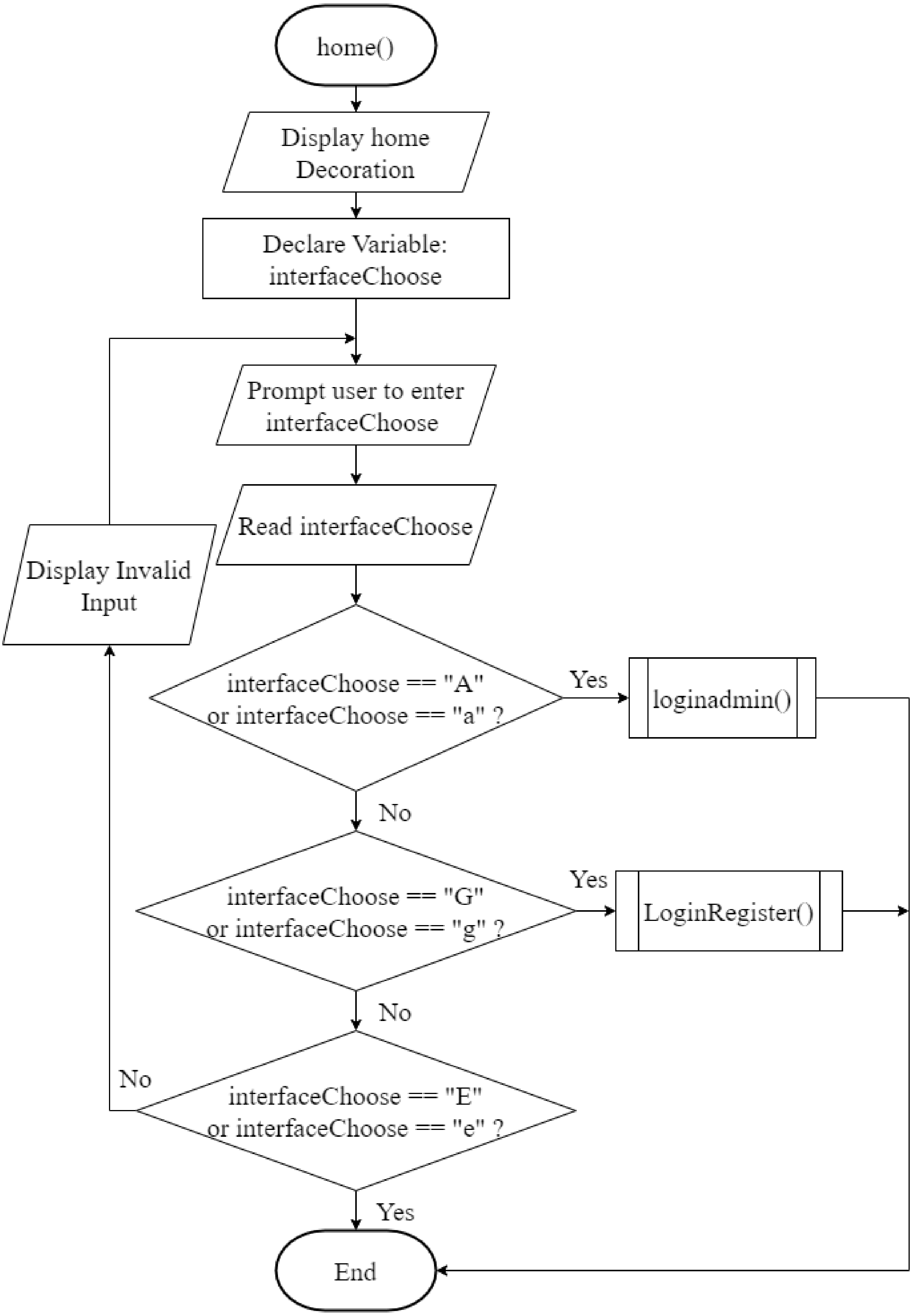
```
    Declare total = 0 as integer
    Declare i = 0 as integer
    Open "MovieList.txt" file
    If file is open
        While not end of the file
            Read line of the file and store in title variable
            Movietitle[i] = title
            Read line of the file and store in price variable
            MoviePrice[i] = price
            Read line of the file and store in seat variable
            MovieSeat[i] = seat
            Read line of the file and store in describe variable
            MovieDesc[i] = describe
            Read line of the file and store in sTime variable
            startTime[i] = sTime
            Read line of the file and store in eTime variable
            endTime[i] = eTime
            i = i +1
            total = total + 1
    totalMovie = total
Close file
```

Flowchart

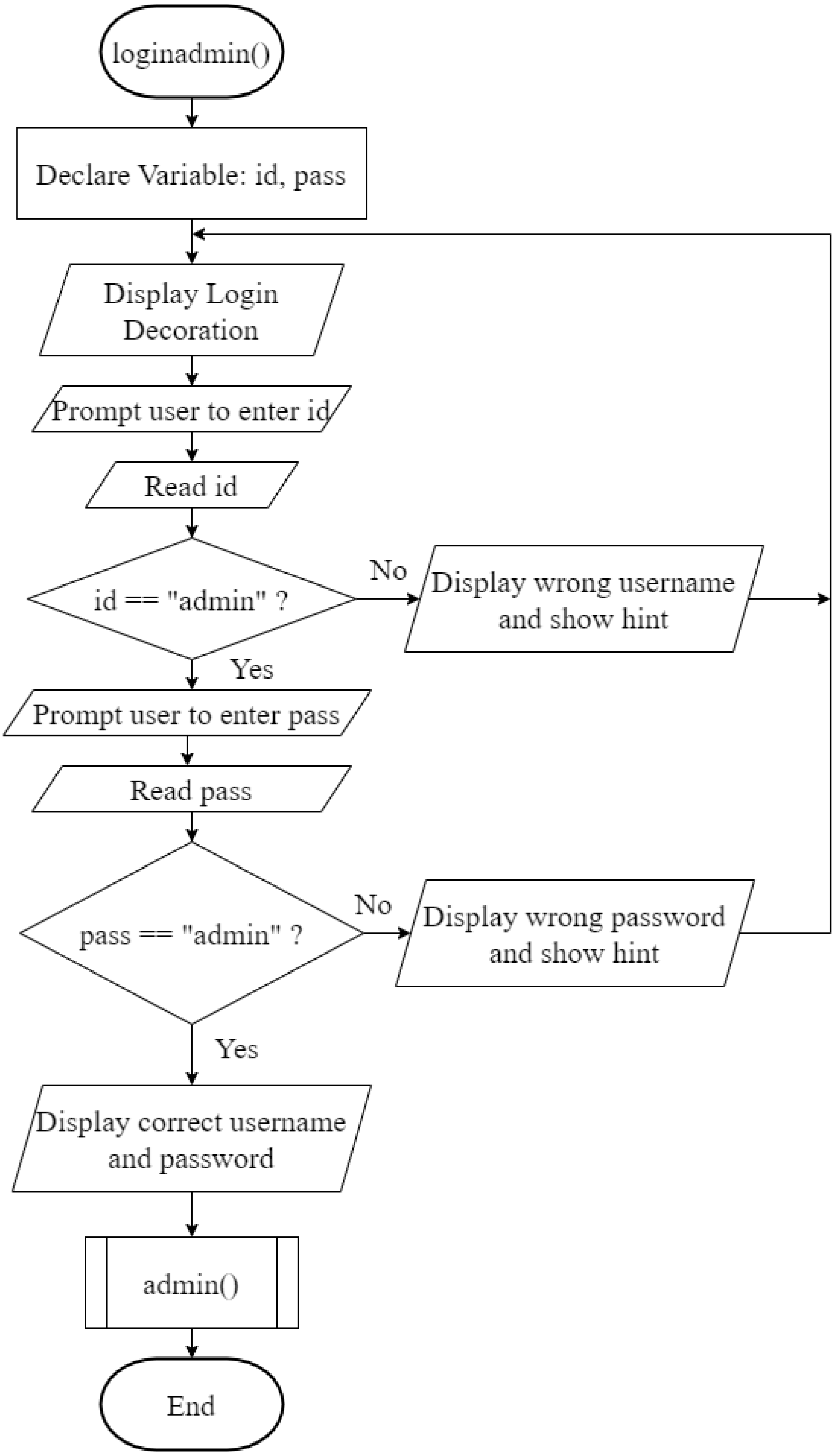
Flowchart of Function: main() and mainpage()


Start
Declare Global Array Variable for Movie: MovieTitle, MovieDesc, MoviePrice, MovieSeat, strartTime, endTime;
Declare Global Variable for Movie: i=0, title, describe, price, seat, sTime, eTime, totalPrice=0, totalMovie=0;
Declare Global Array Variable for Booking: bMovietitle, bMoviePrice, bMovieStartTime, bMovieEndTime, bNumMovieSeat
Declare Global Variable for Booking: totalBookedMovie, btitle, bPrice, bSeat, bStartTime, bEndTime, paidStatus="No Paid", username
mainpage()
home()
End
mainpage()
Display mainpage Decoration
End

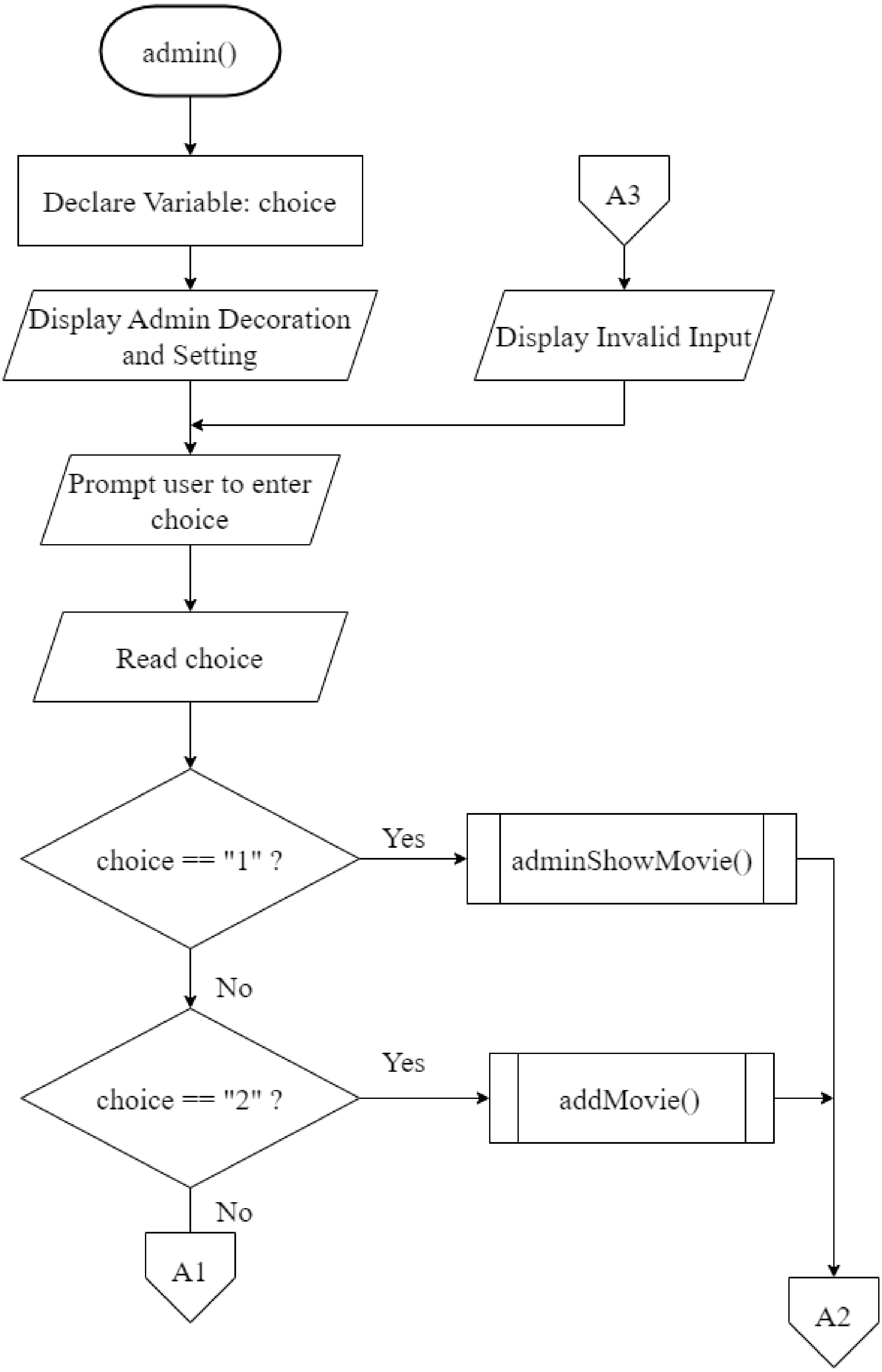
Flowchart of Function: home()

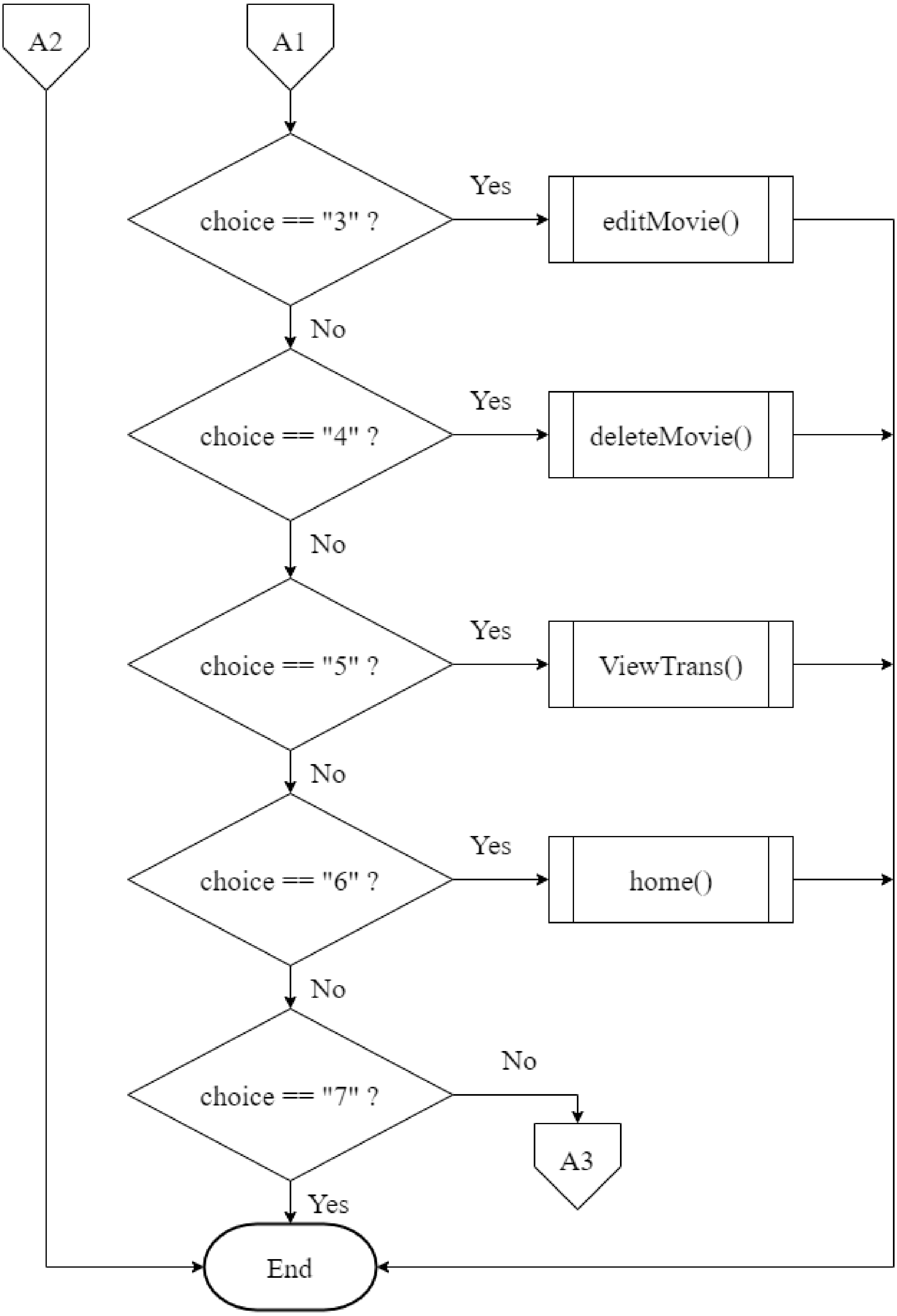

home()
Display home Decoration
Declare Variable: interfaceChoose
Prompt user to enter interfaceChoose
Read interfaceChoose
Display Invalid Input
interfaceChoose == "A" or interfaceChoose == "a" ?
Yes
loginadmin()
No
interfaceChoose == "G" or interfaceChoose == "g" ?
Yes
LoginRegister()
No
No
interfaceChoose == "E" or interfaceChoose == "e" ?
Yes
End

Flowchart of Function: loginadmin()

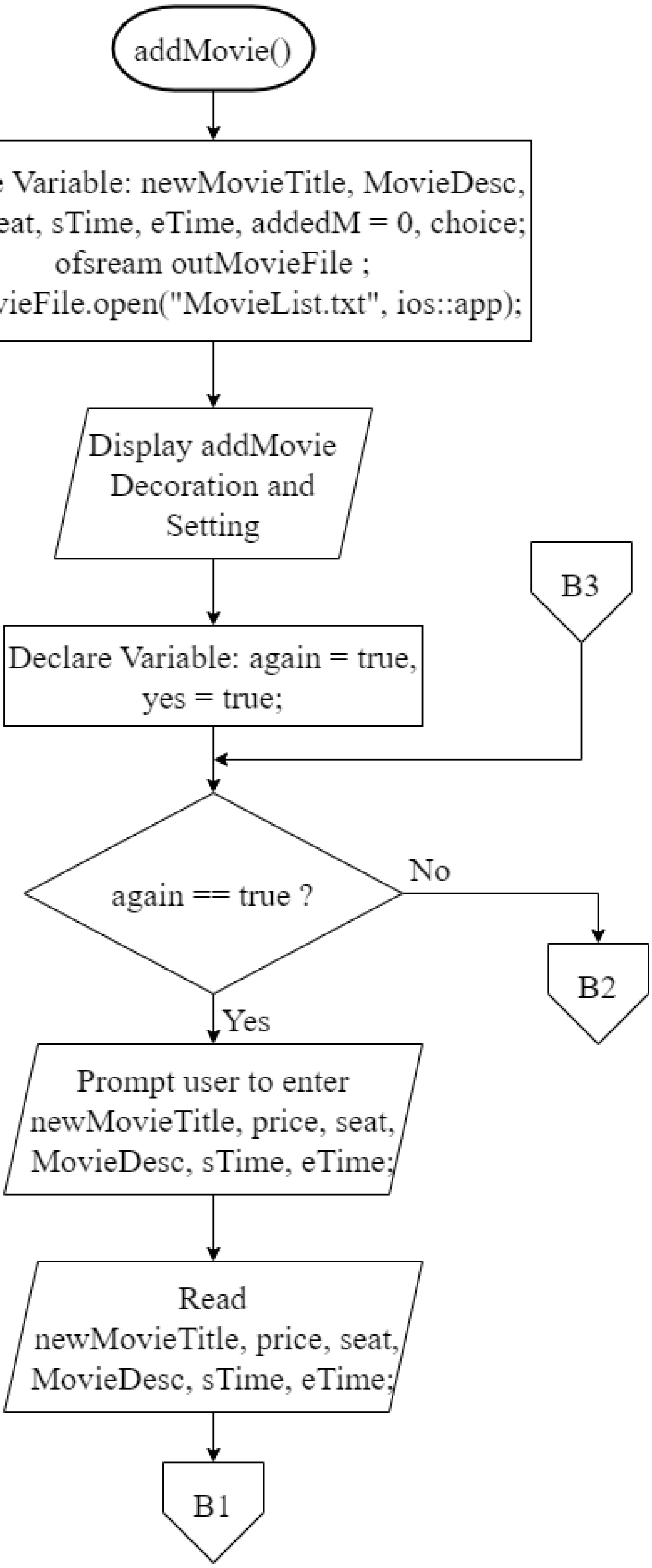

loginadmin()
Declare Variable: id, pass
Display Login Decoration
Prompt user to enter id
Read id
id == "admin" ?
No
Display wrong username and show hint
Yes
Prompt user to enter pass
Read pass
pass == "admin" ?
No
Display wrong password and show hint
Yes
Display correct username and password
admin()
End

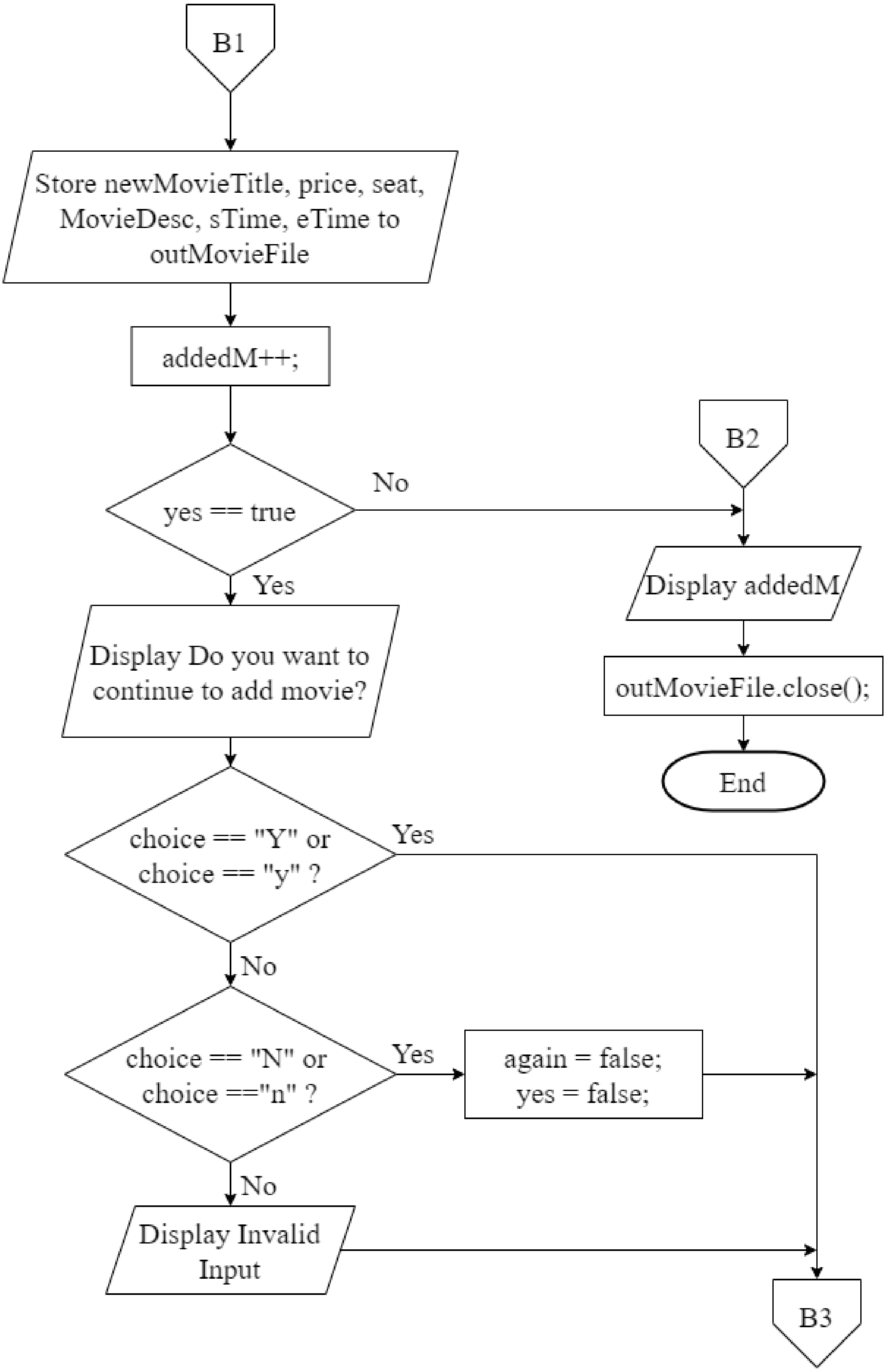
Flowchart of Function: admin()



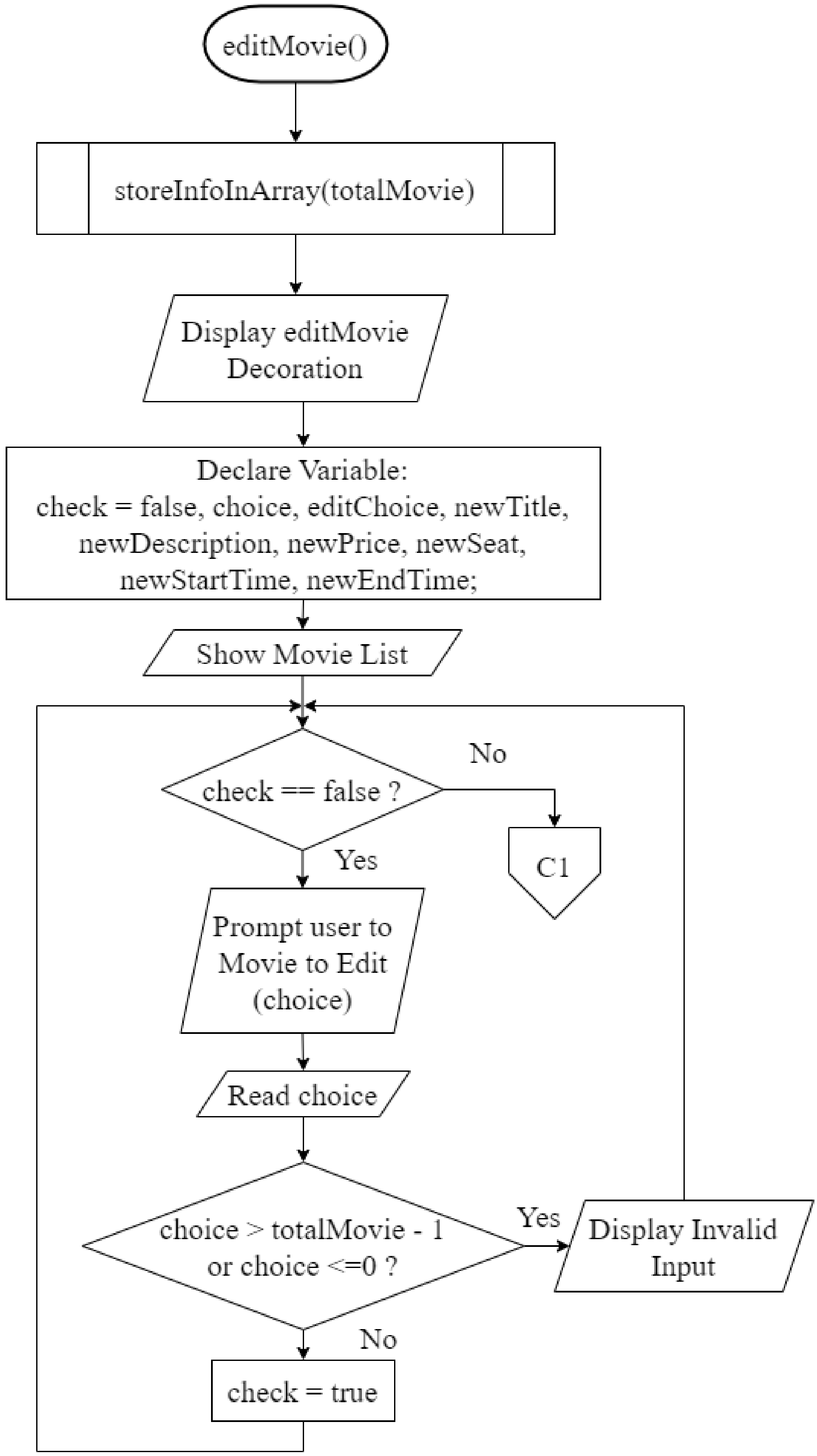

A2
A1
choice == "3" ?
Yes
editMovie()
No
choice == "4" ?
Yes
deleteMovie()
No
choice == "5" ?
Yes
ViewTrans()
No
choice == "6" ?
Yes
home()
No
choice == "7" ?
No
A3
Yes
End

Flowchart of Function: addMovie()

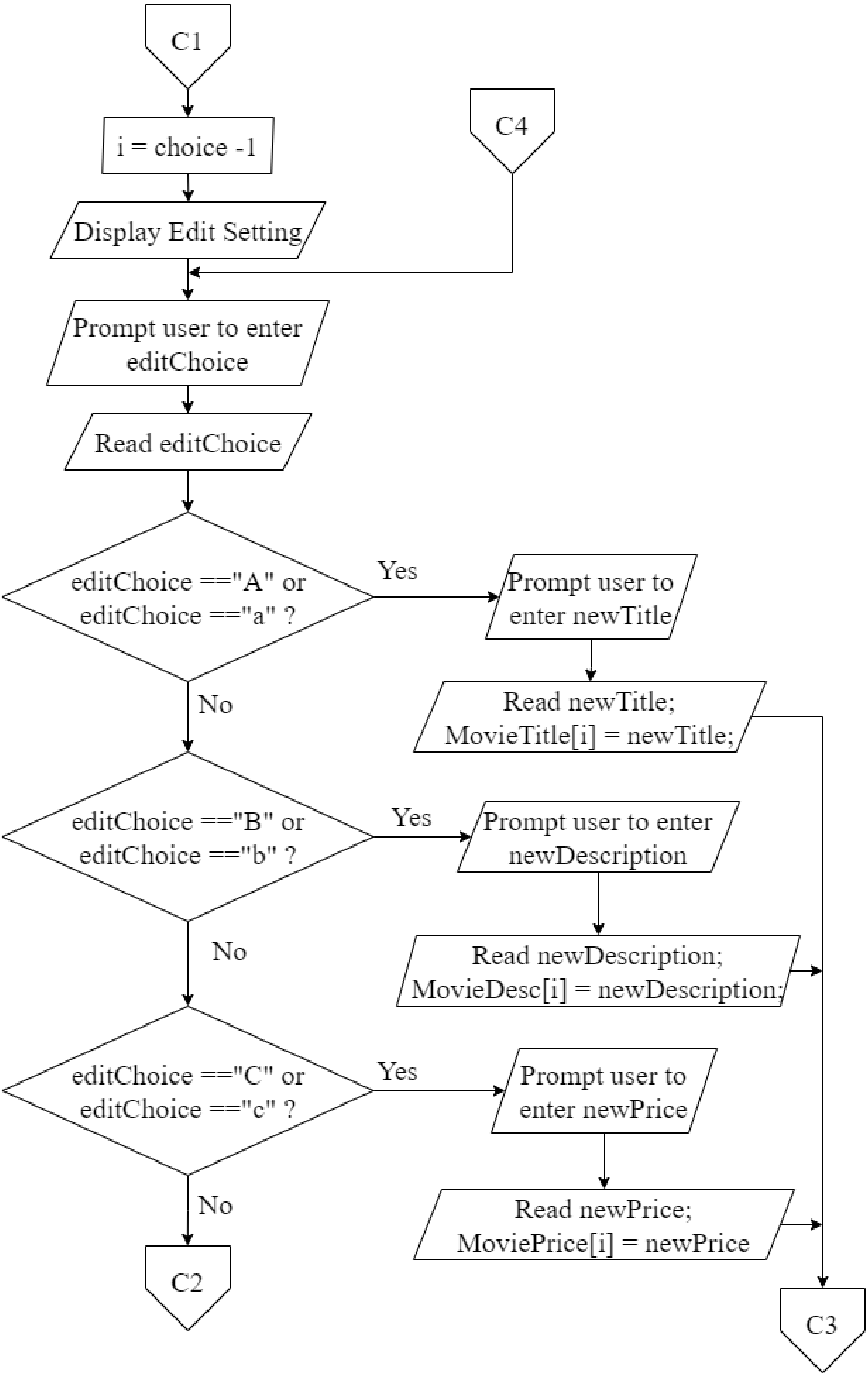

addMovie()
Declare Variable: newMovieTitle, MovieDesc, price, seat, sTime, eTime, addedM = 0, choice; ofsream outMovieFile ; outMovieFile.open("MovieList.txt", ios::app);
Display addMovie Decoration and Setting
B3
Declare Variable: again = true, yes = true;
again == true ?
No
B2
Yes
Prompt user to enter newMovieTitle, price, seat, MovieDesc, sTime, eTime;
Read newMovieTitle, price, seat, MovieDesc, sTime, eTime;
B1

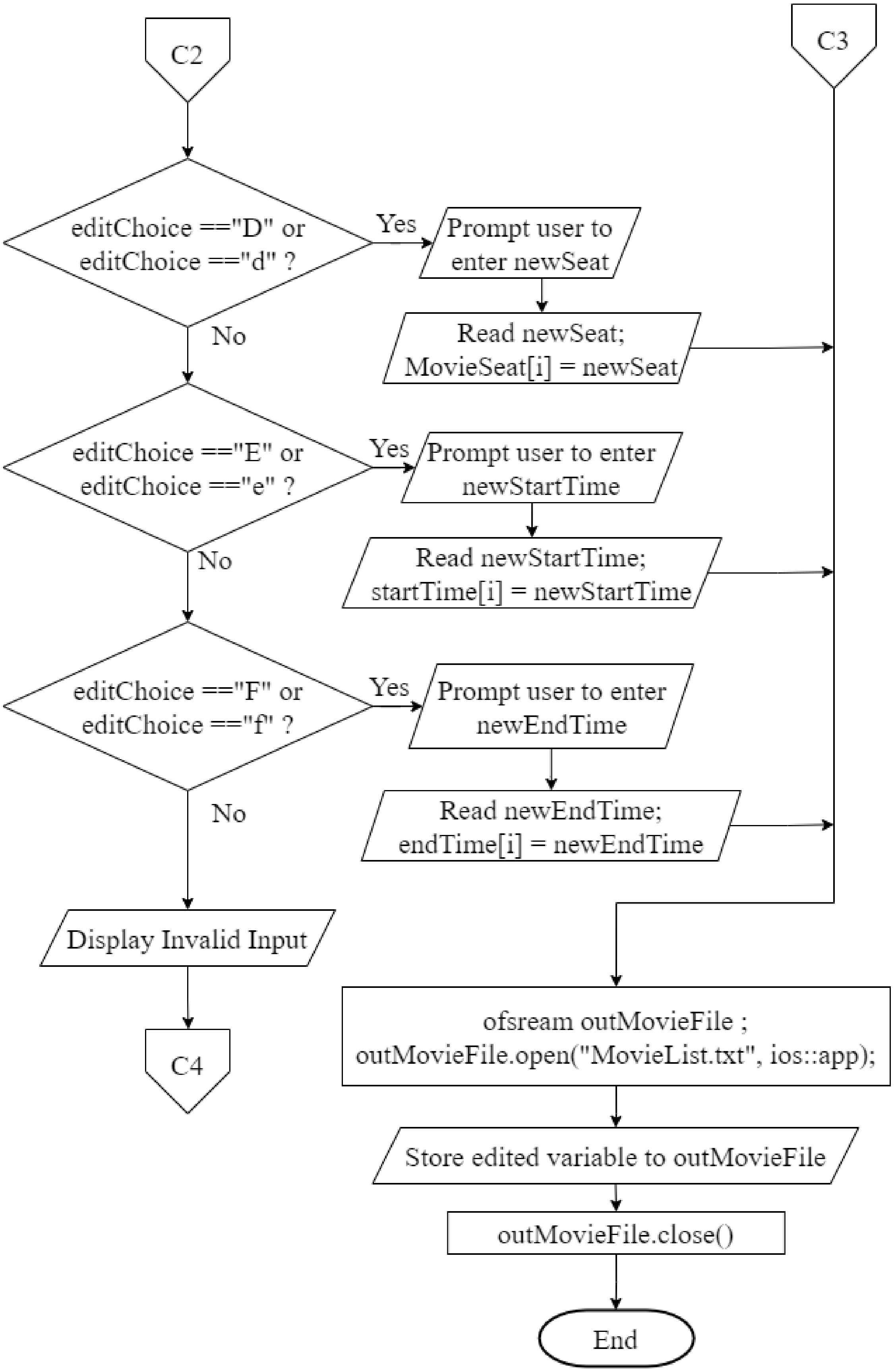

B1
Store newMovieTitle, price, seat, MovieDesc, sTime, eTime to outMovieFile
addedM++;
yes == true
No
Yes
B2
Display addedM
outMovieFile.close();
End
Display Do you want to continue to add movie?
choice == "Y" or choice == "y" ?
Yes
No
choice == "N" or choice =="n" ?
Yes
again = false;
yes = false;
No
Display Invalid Input
B3

Flowchart of Function: editMovie()

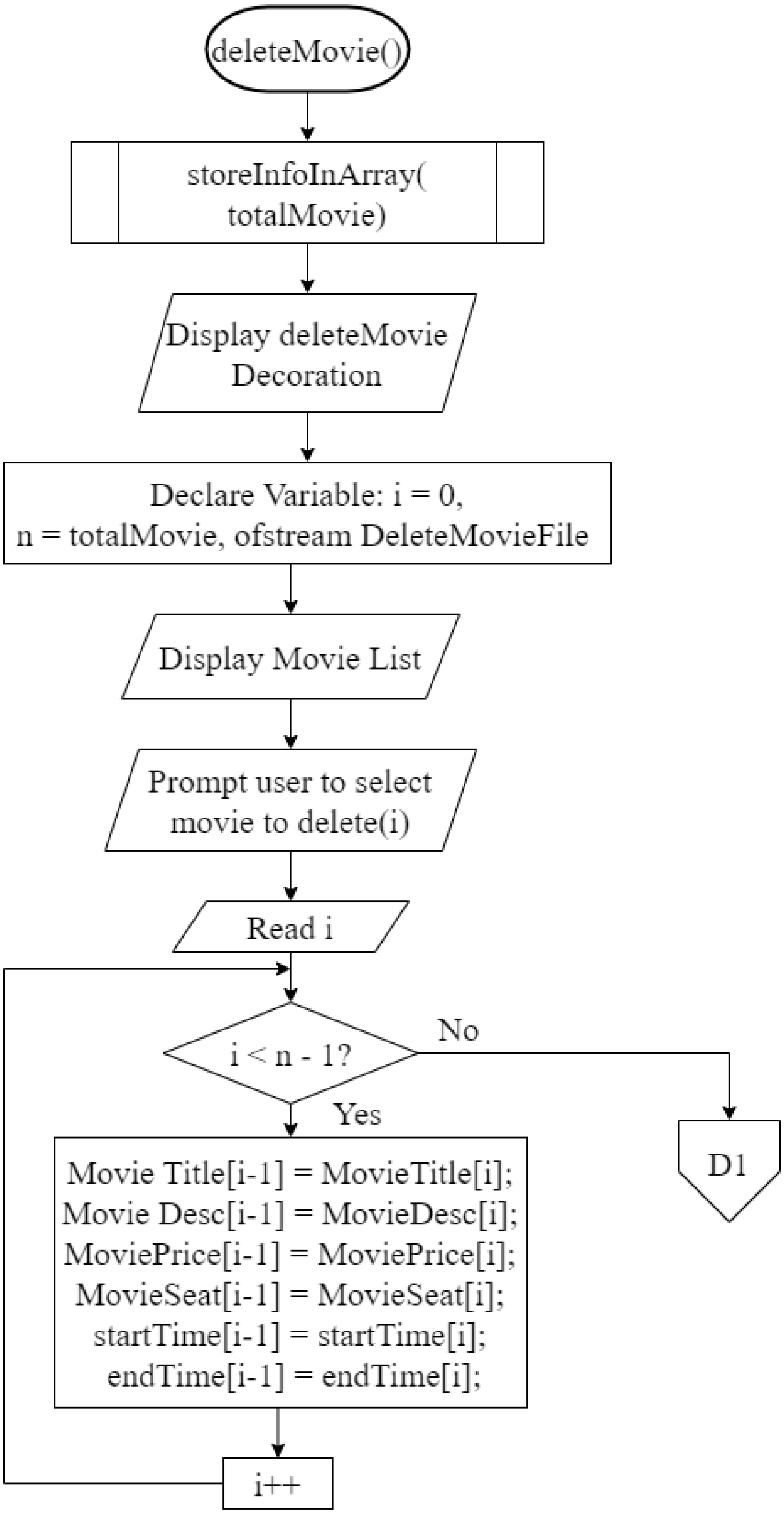


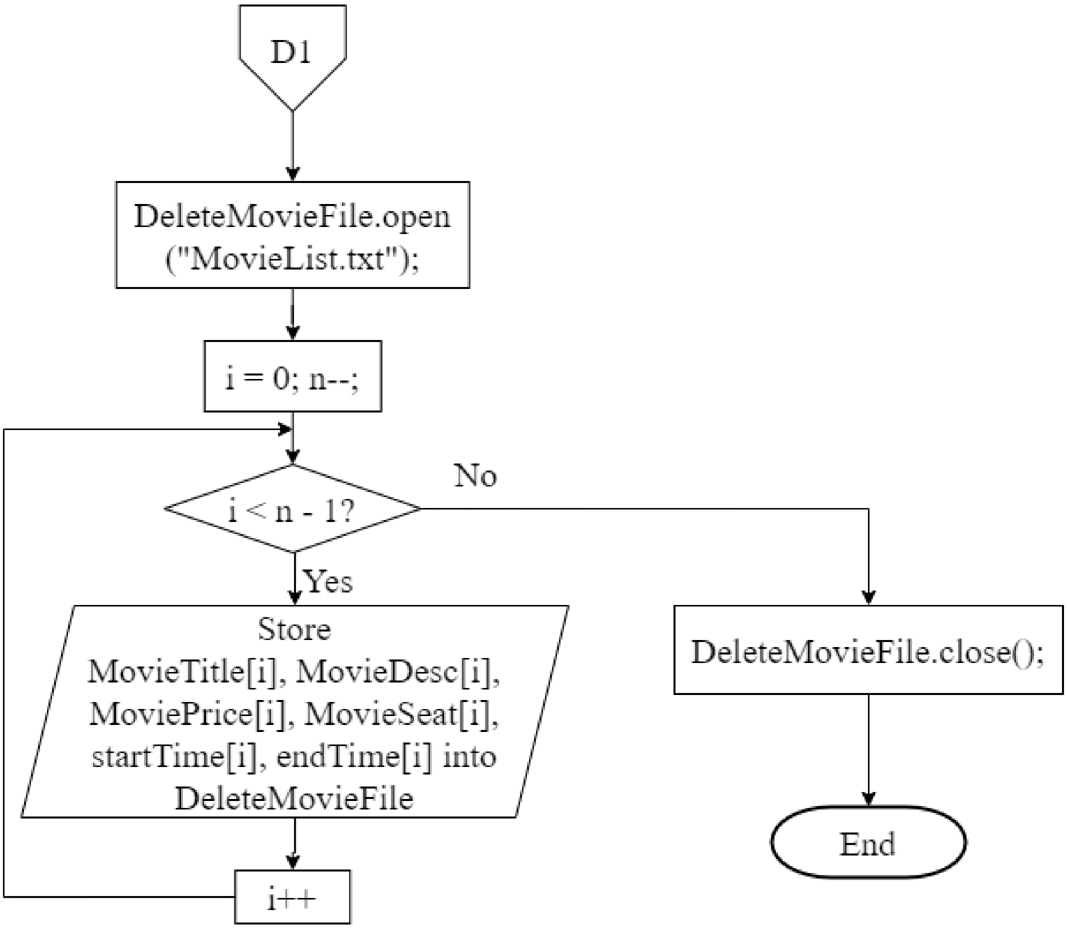
editMovie()
storeInfoInArray(totalMovie)
Display editMovie Decoration
Declare Variable:
check = false, choice, editChoice, newTitle, newDescription, newPrice, newSeat, newStartTime, newEndTime;
Show Movie List
check == false ?
No
C1
Yes
Prompt user to Movie to Edit (choice)
Read choice
choice > totalMovie - 1 or choice <=0 ?
Yes
Display Invalid Input
No
check = true


C1
i = choice -1
Display Edit Setting
C4
Prompt user to enter editChoice
Read editChoice
editChoice =="A" or editChoice =="a" ?
Yes
Prompt user to enter newTitle
Read newTitle; MovieTitle[i] = newTitle;
No
editChoice =="B" or editChoice =="b" ?
Yes
Prompt user to enter newDescription
Read newDescription; MovieDesc[i] = newDescription;
No
editChoice =="C" or editChoice =="c" ?
Yes
Prompt user to enter newPrice
Read newPrice; MoviePrice[i] = newPrice
No
C2
C3

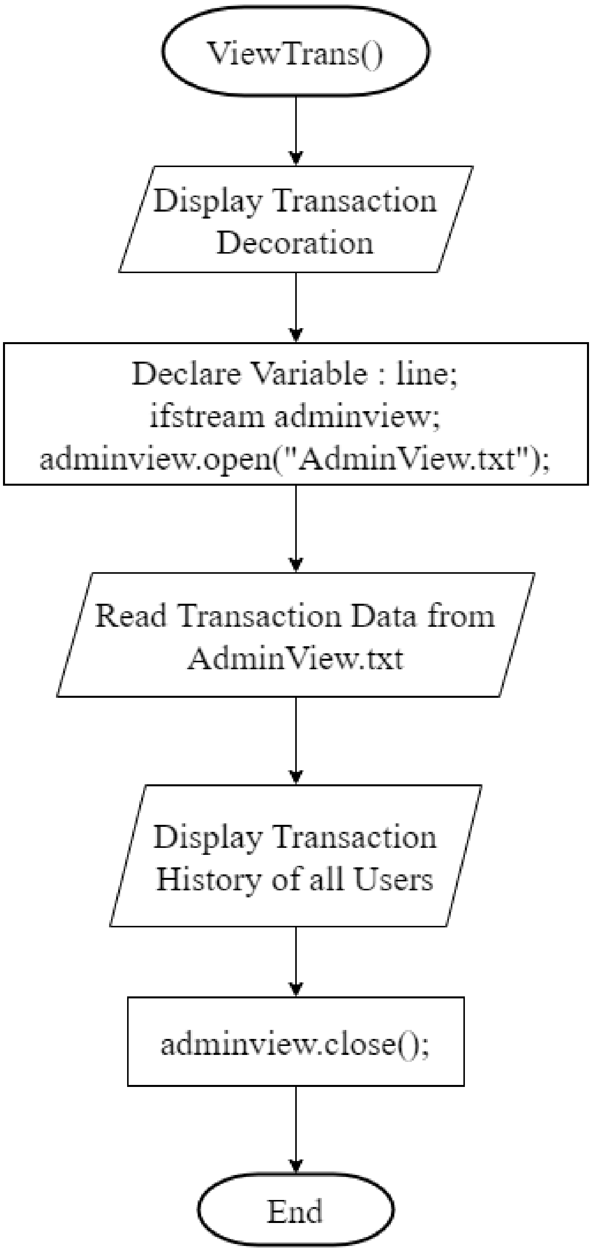

C2
C3
editChoice =="D" or editChoice =="d" ?
Yes
Prompt user to enter newSeat
Read newSeat; MovieSeat[i] = newSeat
No
editChoice =="E" or editChoice =="e" ?
Yes
Prompt user to enter newStartTime
Read newStartTime; startTime[i] = newStartTime
No
editChoice =="F" or editChoice =="f" ?
Yes
Prompt user to enter newEndTime
Read newEndTime; endTime[i] = newEndTime
No
Display Invalid Input
C4
ofsream outMovieFile ;
outMovieFile.open("MovieList.txt", ios::app);
Store edited variable to outMovieFile
outMovieFile.close()
End

Flowchart of Function: deleteMovie()

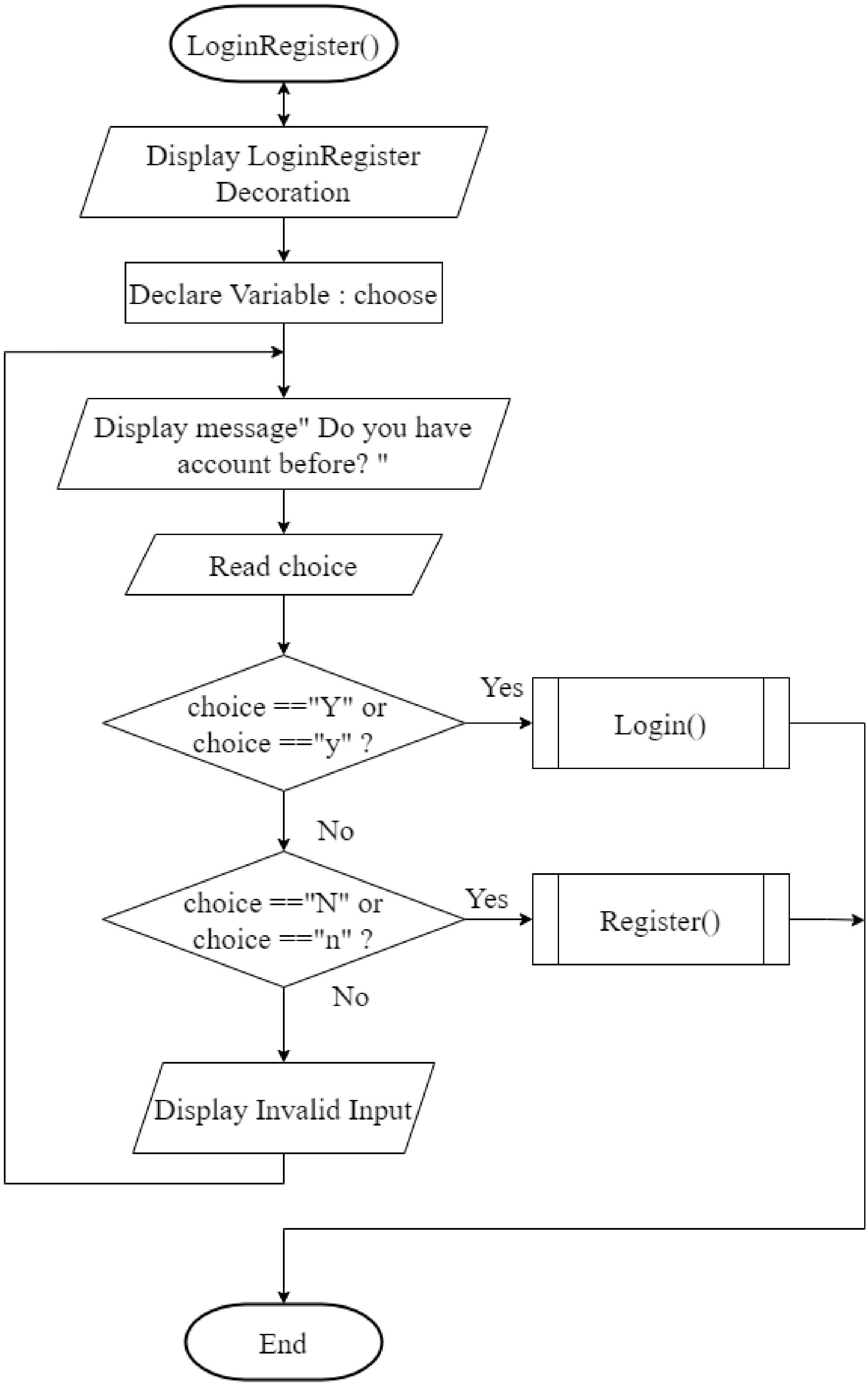

deleteMovie()
storeInfoInArray(totalMovie)
Display deleteMovie Decoration
Declare Variable: i = 0, n = totalMovie, ofstream DeleteMovieFile
Display Movie List
Prompt user to select movie to delete(i)
Read i
i < n - 1?
No
Yes
Movie Title[i-1] = MovieTitle[i];
Movie Desc[i-1] = MovieDesc[i];
MoviePrice[i-1] = MoviePrice[i];
MovieSeat[i-1] = MovieSeat[i];
startTime[i-1] = startTime[i];
endTime[i-1] = endTime[i];
i++
D1


D1
DeleteMovieFile.open ("MovieList.txt");
i = 0; n--;
i < n - 1?
No
Yes
Store MovieTitle[i], MovieDesc[i], MoviePrice[i], MovieSeat[i], startTime[i], endTime[i] into DeleteMovieFile
DeleteMovieFile.close();
End
i++

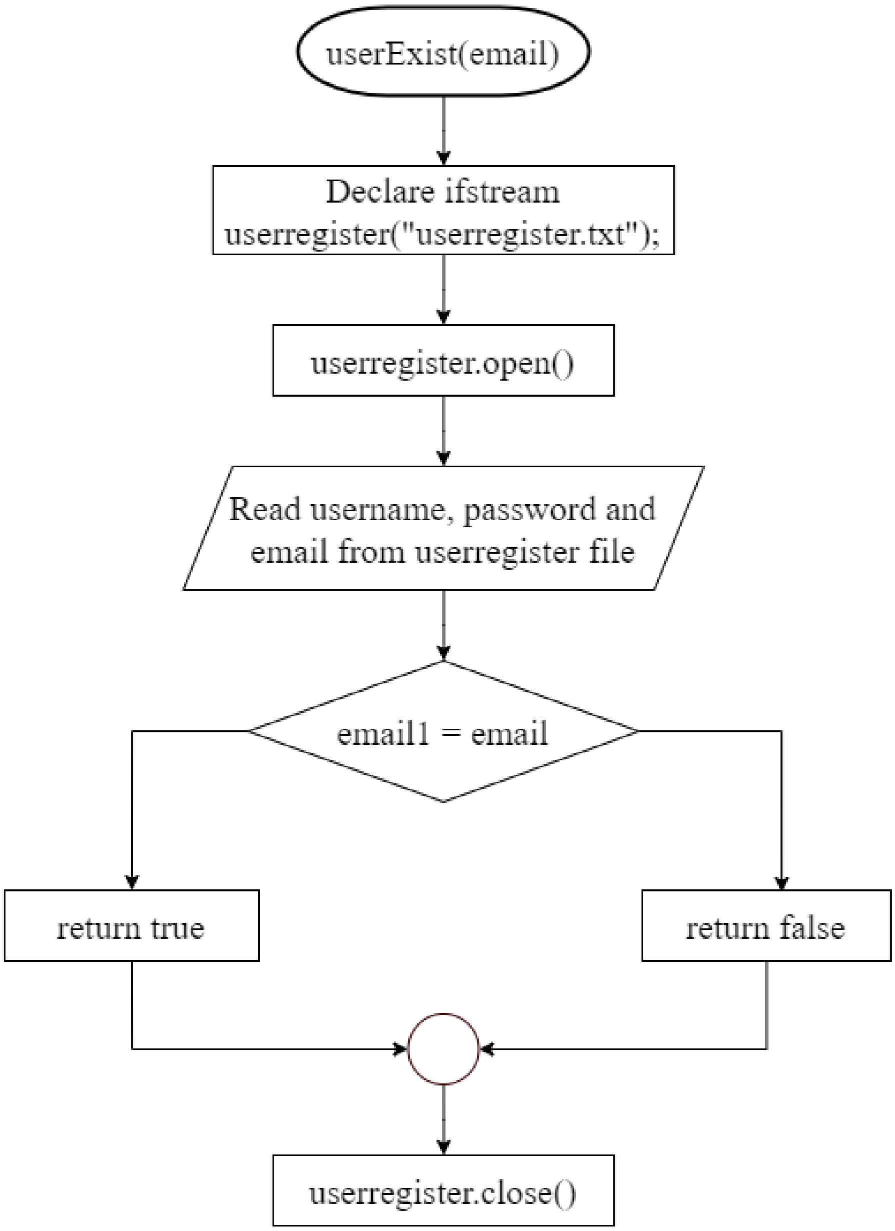
Flowchart of Function: ViewTrans()


ViewTrans()
Display Transaction Decoration
Declare Variable : line;
ifstream adminview;
adminview.open("AdminView.txt");
Read Transaction Data from AdminView.txt
Display Transaction History of all Users
adminview.close();
End

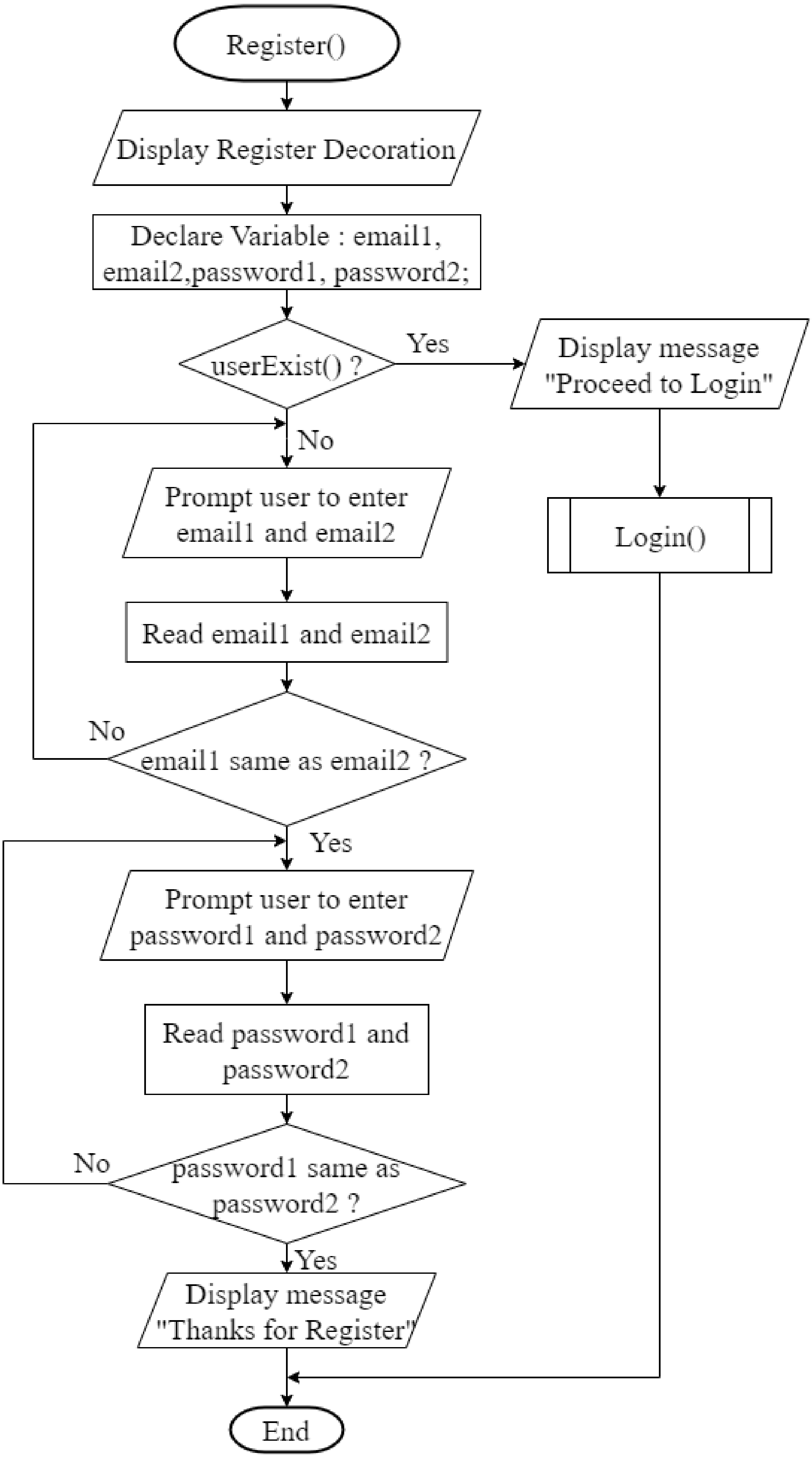
Flowchart of Function: LoginRegister()


LoginRegister()
Display LoginRegister Decoration
Declare Variable : choose
Display message" Do you have account before? "
Read choice
choice =="Y" or choice =="y" ?
Yes
Login()
No
choice =="N" or choice =="n" ?
Yes
Register()
No
Display Invalid Input
End

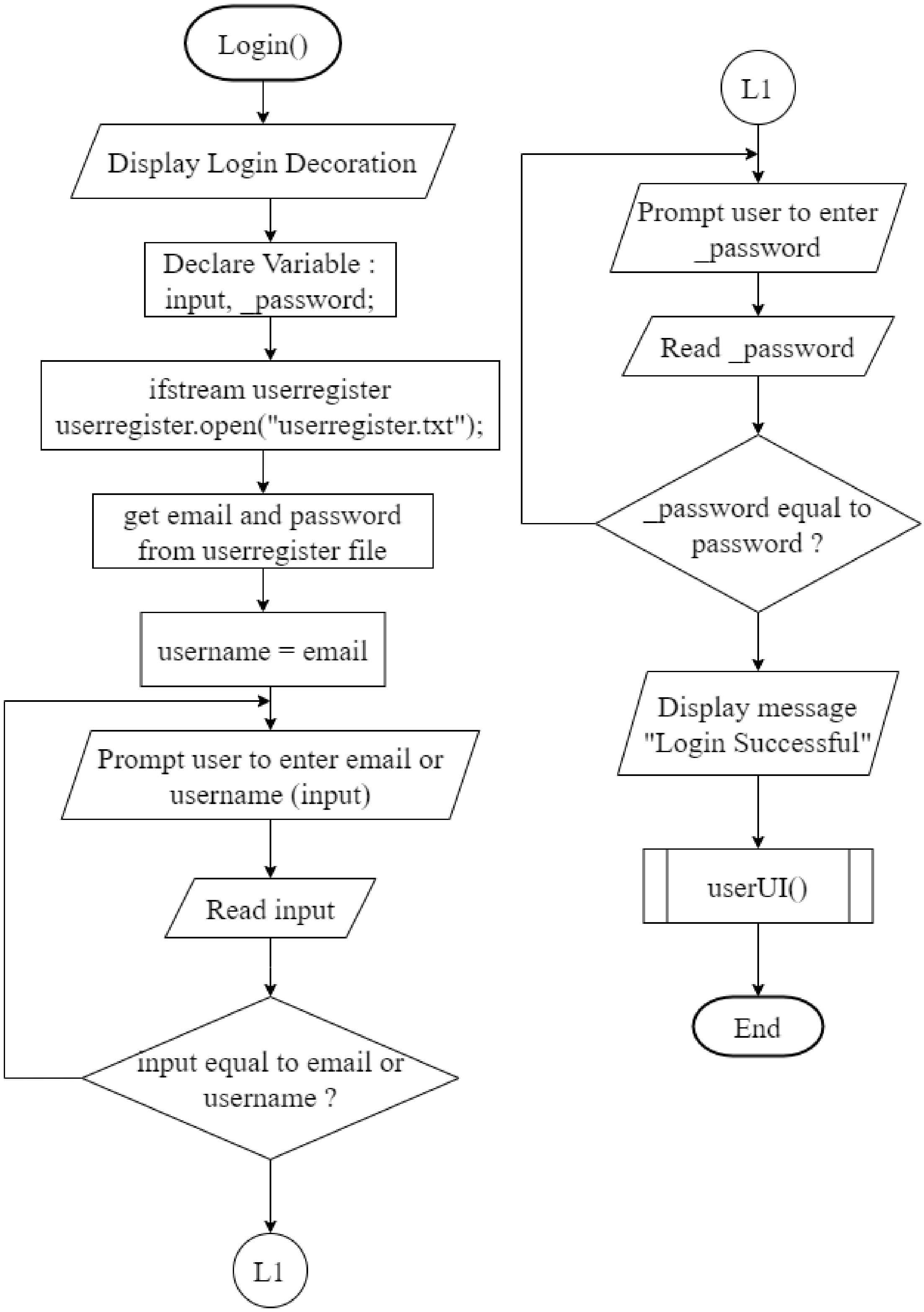
<u>Flowchart of Function: userExist(email)</u>


userExist(email)
Declare ifstream userregister("userregister.txt");
userregister.open()
Read username, password and email from userregister file
email1 = email
return true
return false
userregister.close()

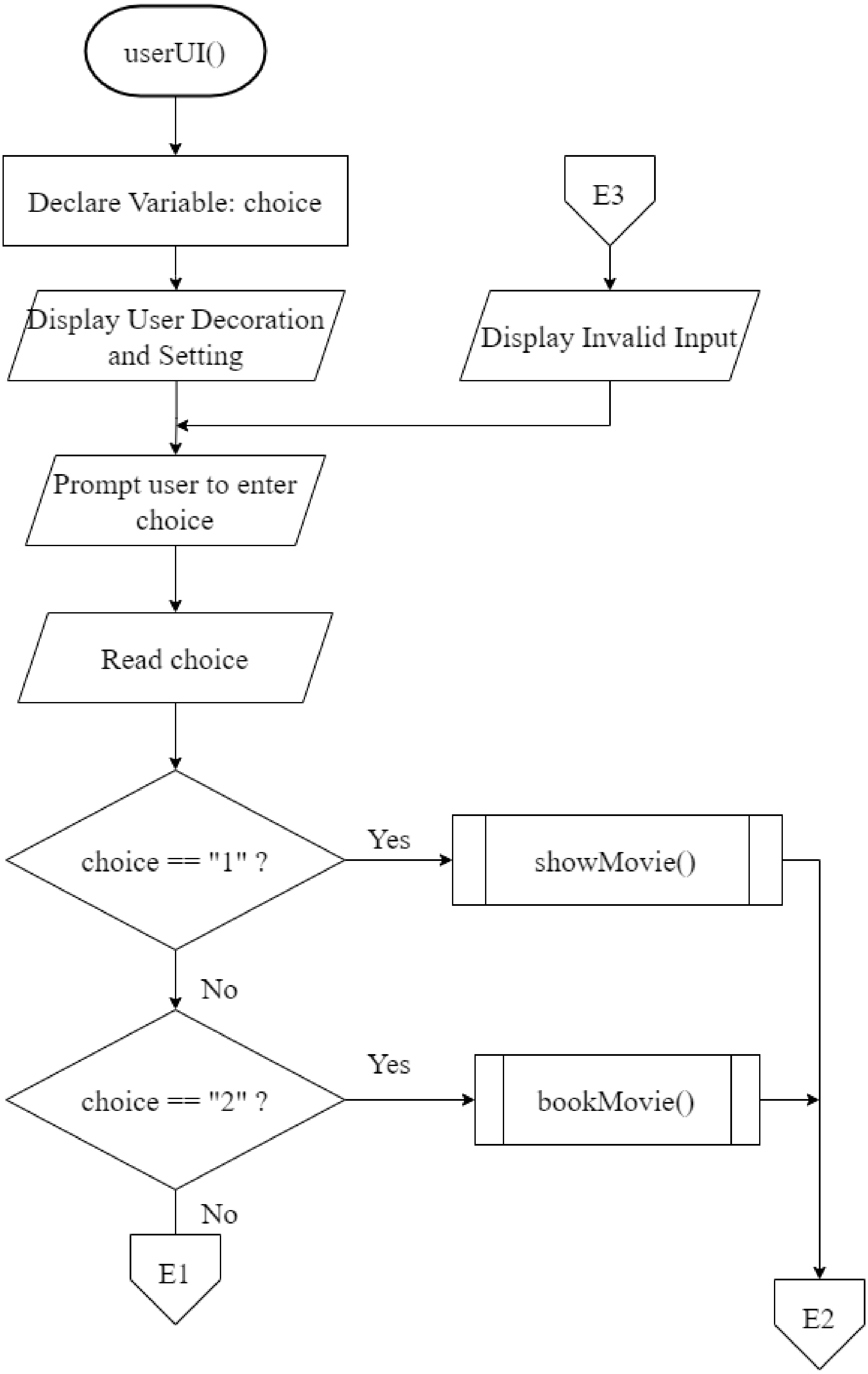
Flowchart of Function: Register()

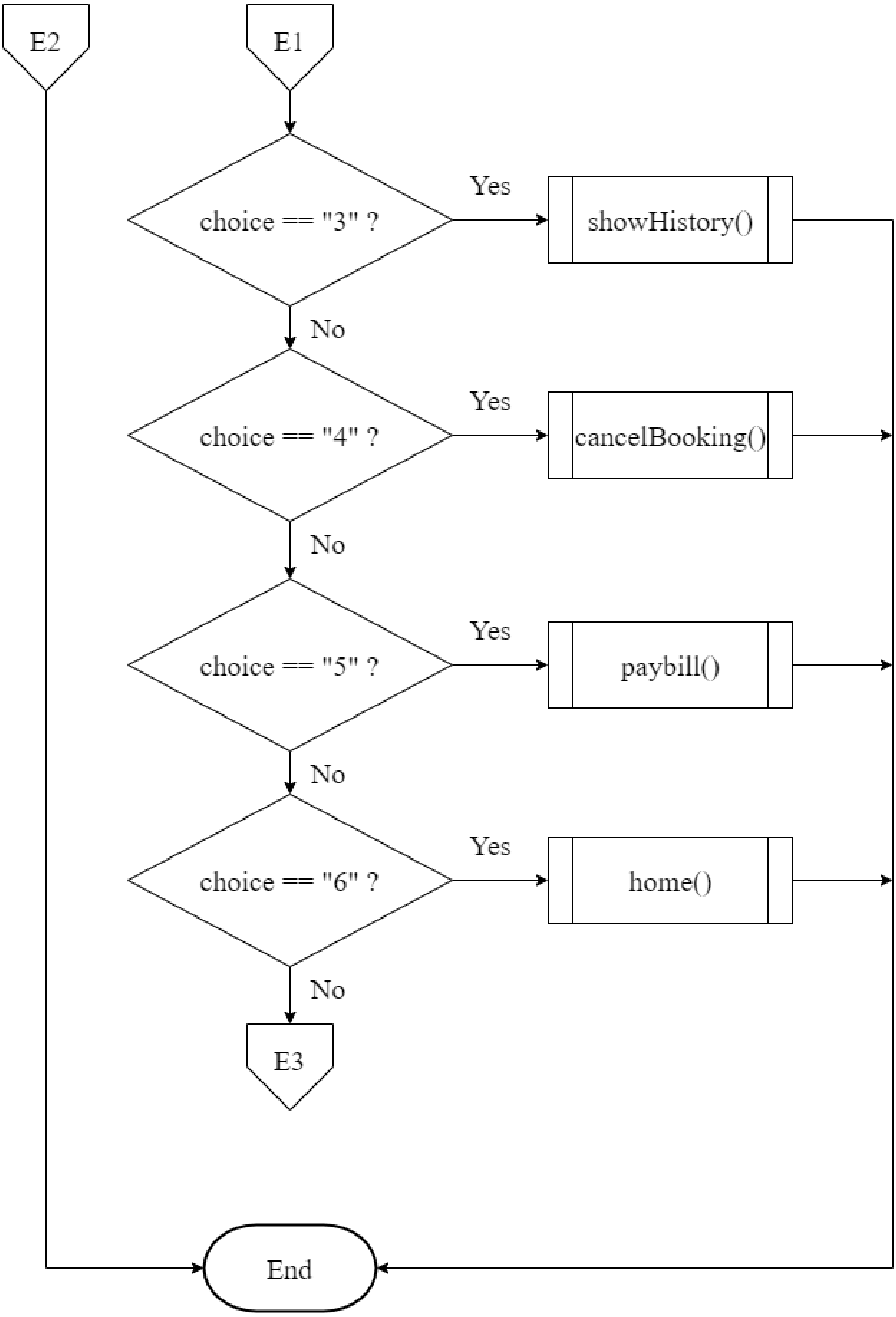

Register()
Display Register Decoration
Declare Variable : email1, email2,password1, password2;
userExist() ?
Yes
Display message "Proceed to Login"
Login()
No
Prompt user to enter email1 and email2
Read email1 and email2
No
email1 same as email2 ?
Yes
Prompt user to enter password1 and password2
Read password1 and password2
No
password1 same as password2 ?
Yes
Display message "Thanks for Register"
End

Flowchart of Function: Login()

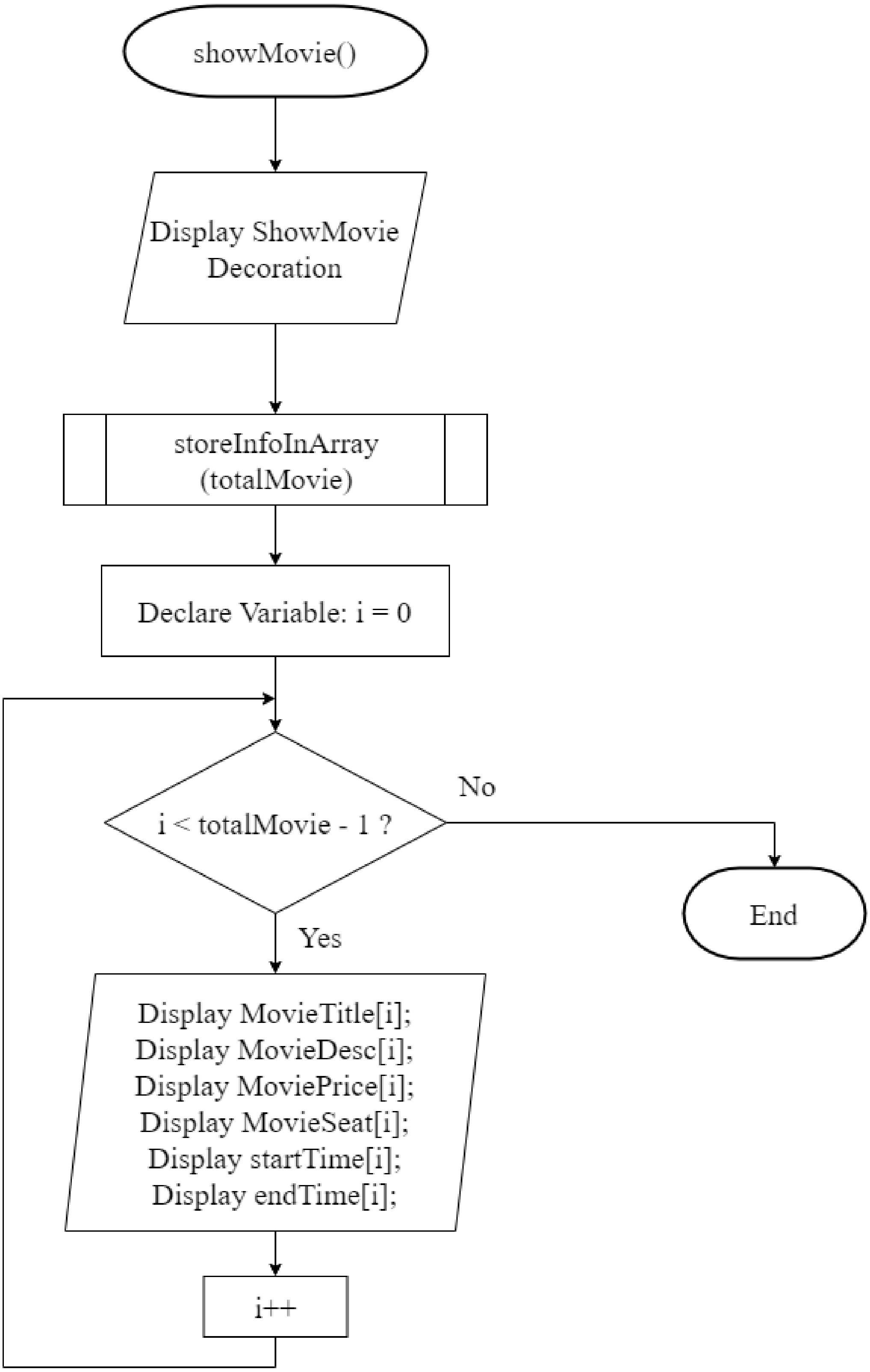

Login()
Display Login Decoration
Declare Variable : input, _password;
ifstream userregister userregister.open("userregister.txt");
get email and password from userregister file
username = email
Prompt user to enter email or username (input)
Read input
input equal to email or username ?
L1
L1
Prompt user to enter _password
Read _password
_password equal to password ?
Display message "Login Successful"
userUI()
End

Flowchart of Function: userUI()

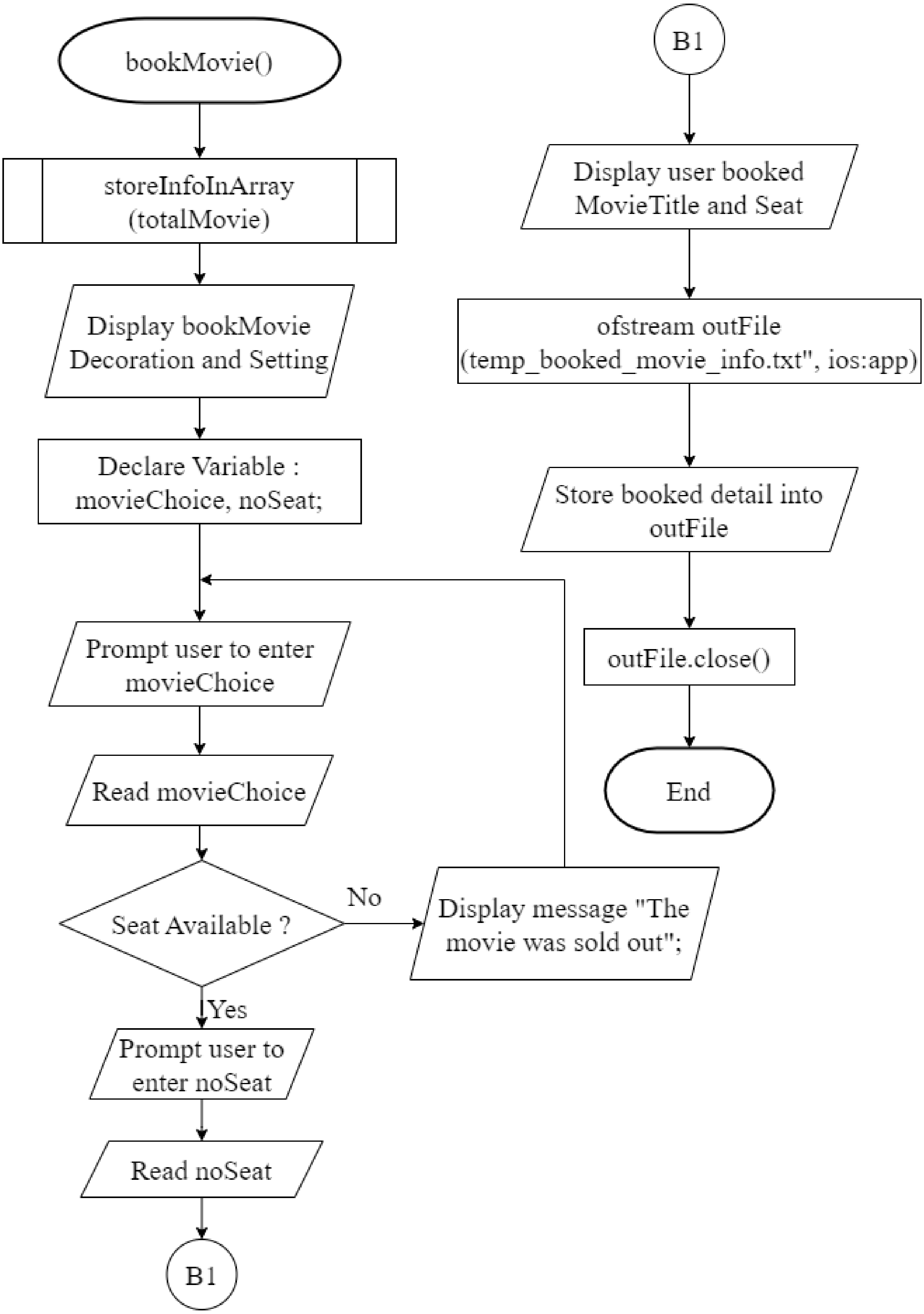



E2
E1
choice == "3" ?
Yes
showHistory()
No
choice == "4" ?
Yes
cancelBooking()
No
choice == "5" ?
Yes
paybill()
No
choice == "6" ?
Yes
home()
No
E3
End

Flowchart of Function: showMovie()

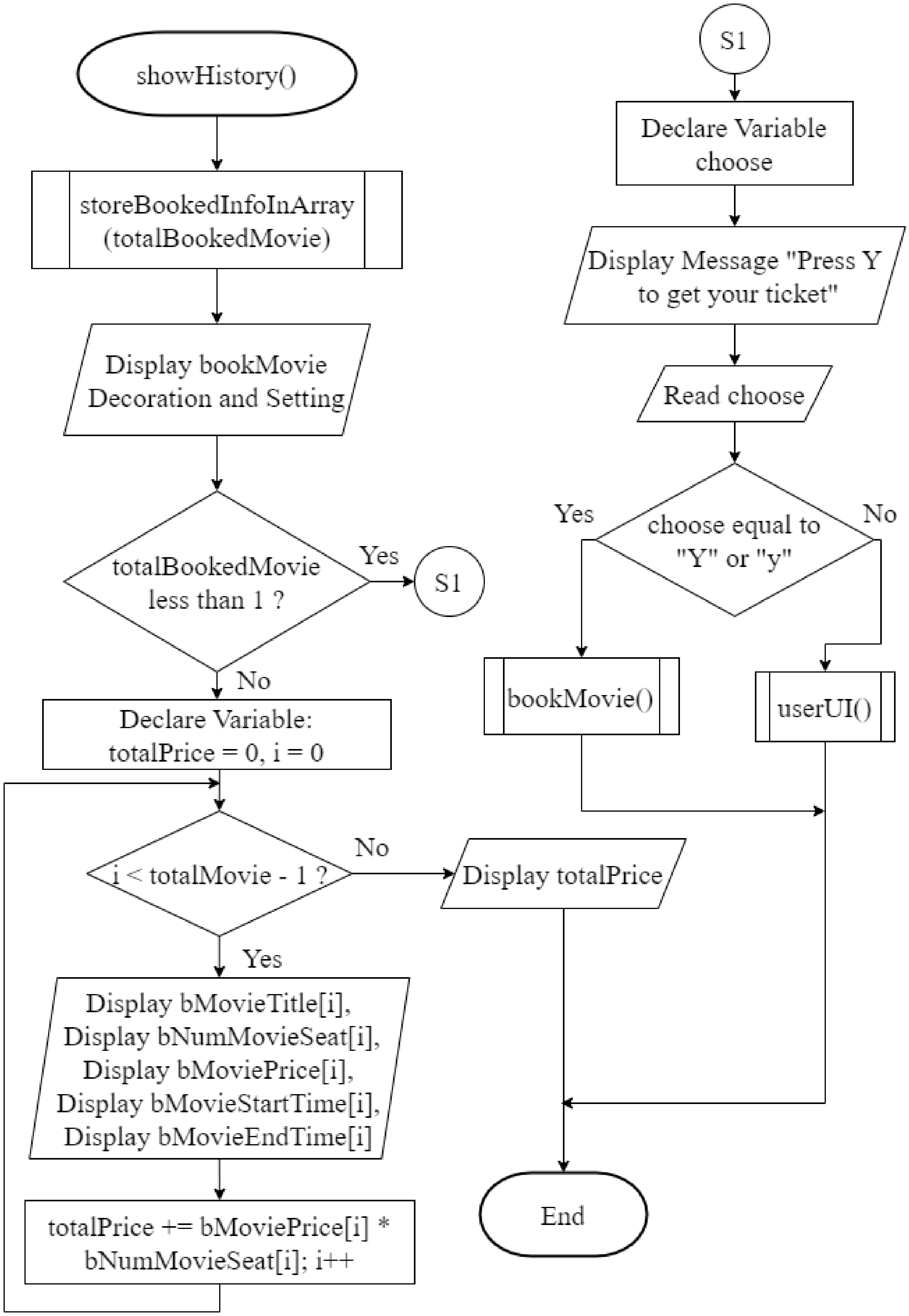


Flowchart of Function: bookMovie()

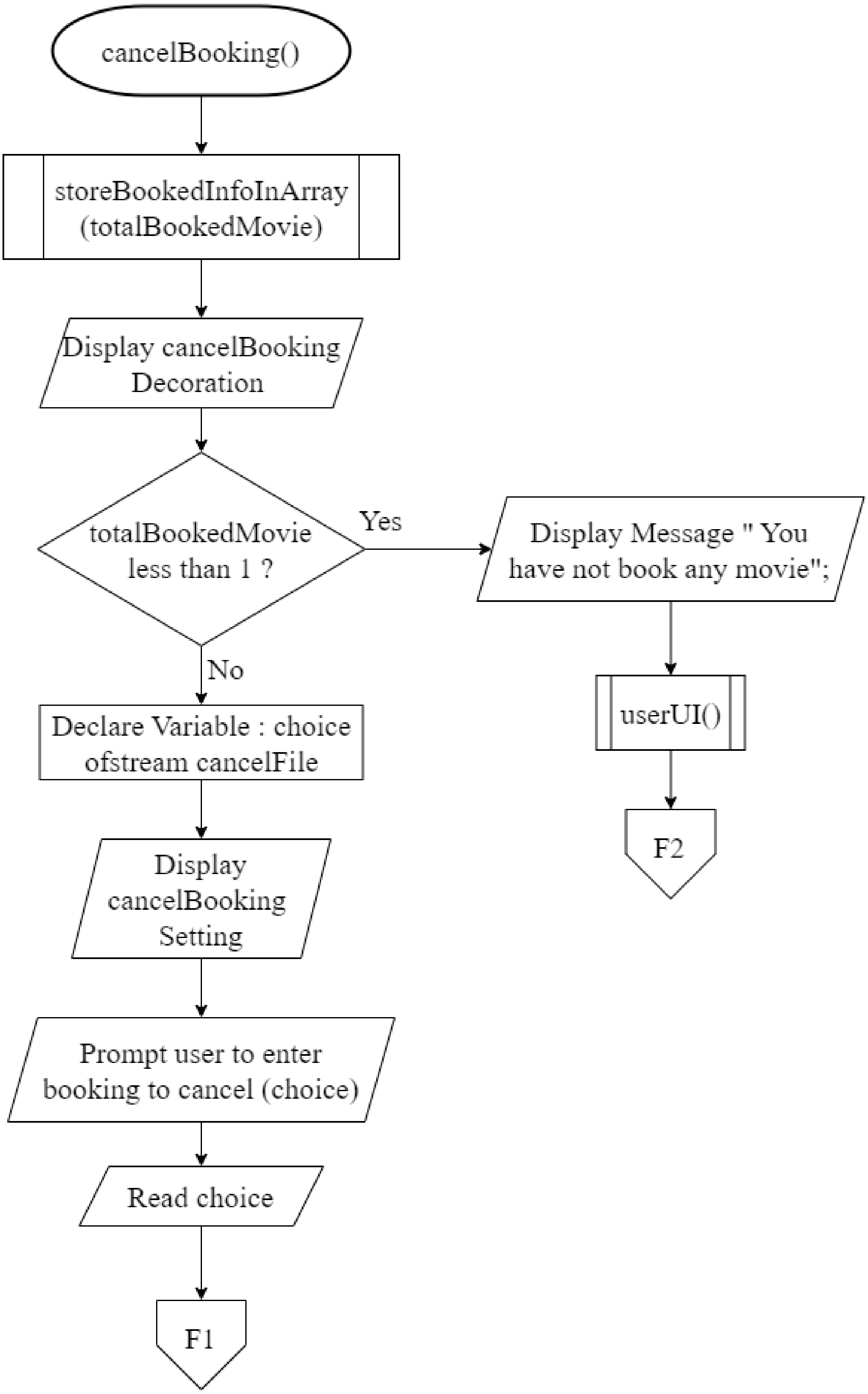


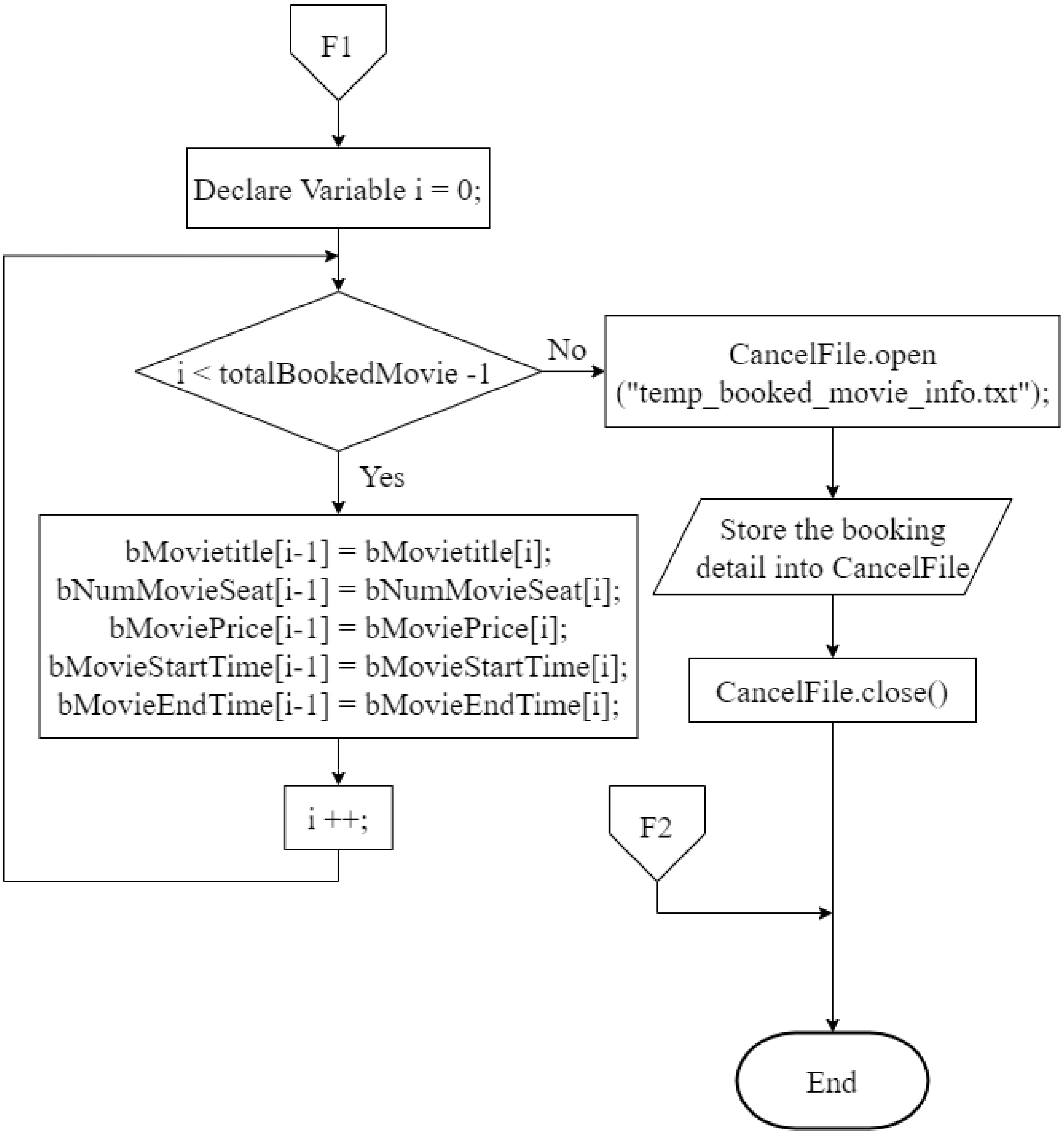
bookMovie()
storeInfoInArray (totalMovie)
Display bookMovie Decoration and Setting
Declare Variable : movieChoice, noSeat;
Prompt user to enter movieChoice
Read movieChoice
Seat Available ?
No
Display message "The movie was sold out";
Yes
Prompt user to enter noSeat
Read noSeat
B1
B1
Display user booked MovieTitle and Seat
ofstream outFile (temp_booked_movie_info.txt", ios:app)
Store booked detail into outFile
outFile.close()
End

Flowchart of Function: showHistory()

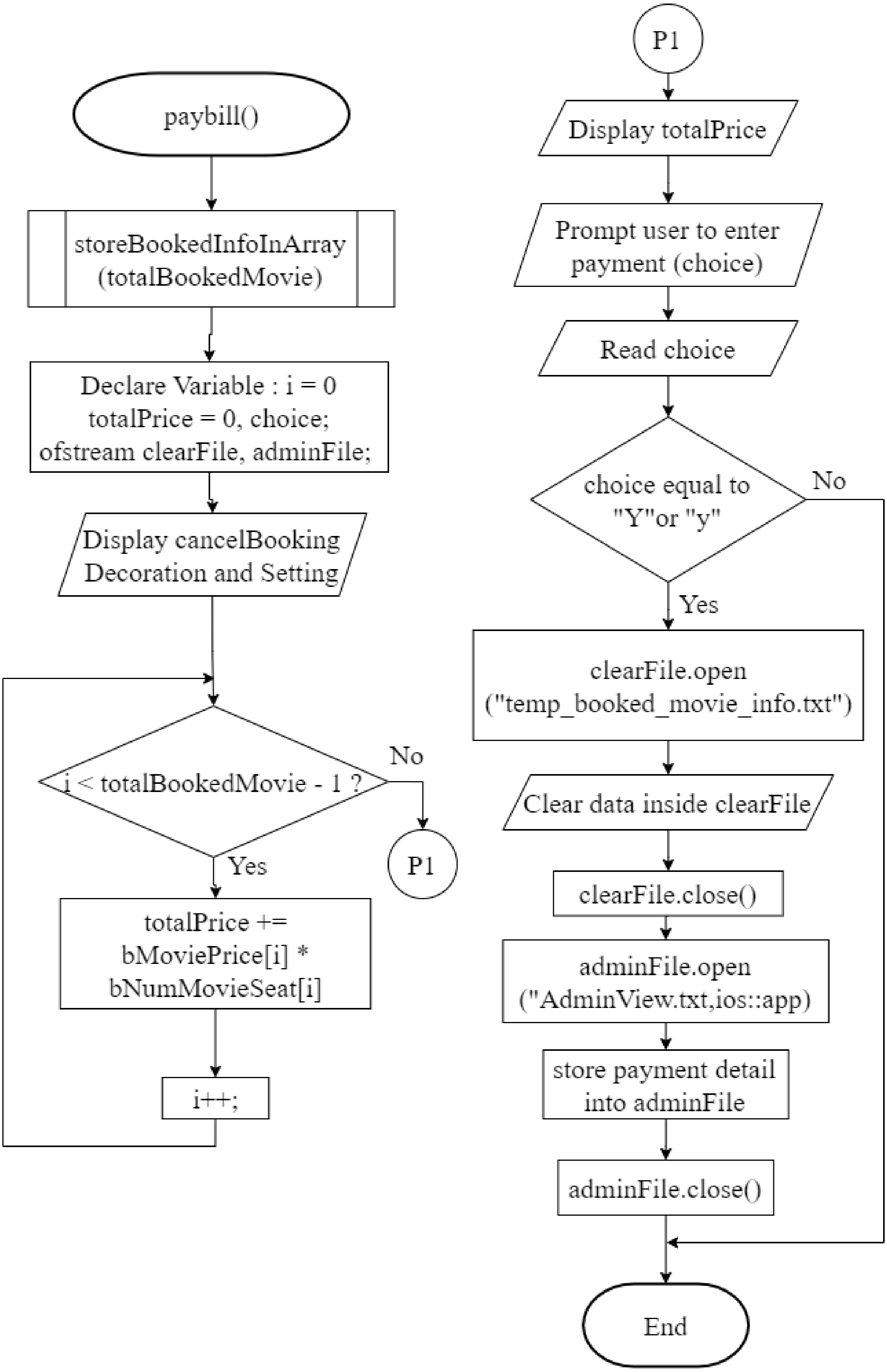

showHistory()
storeBookedInfoInArray (totalBookedMovie)
Display bookMovie Decoration and Setting
totalBookedMovie less than 1 ?
Yes
S1
No
Declare Variable: totalPrice = 0, i = 0
i < totalMovie - 1 ?
No
Display totalPrice
Yes
Display bMovieTitle[i], Display bNumMovieSeat[i], Display bMoviePrice[i], Display bMovieStartTime[i], Display bMovieEndTime[i]
totalPrice += bMoviePrice[i] * bNumMovieSeat[i]; i++
S1
Declare Variable choose
Display Message "Press Y to get your ticket"
Read choose
choose equal to "Y" or "y"
Yes
No
bookMovie()
userUI()
End

Flowchart of Function: cancelBooking()

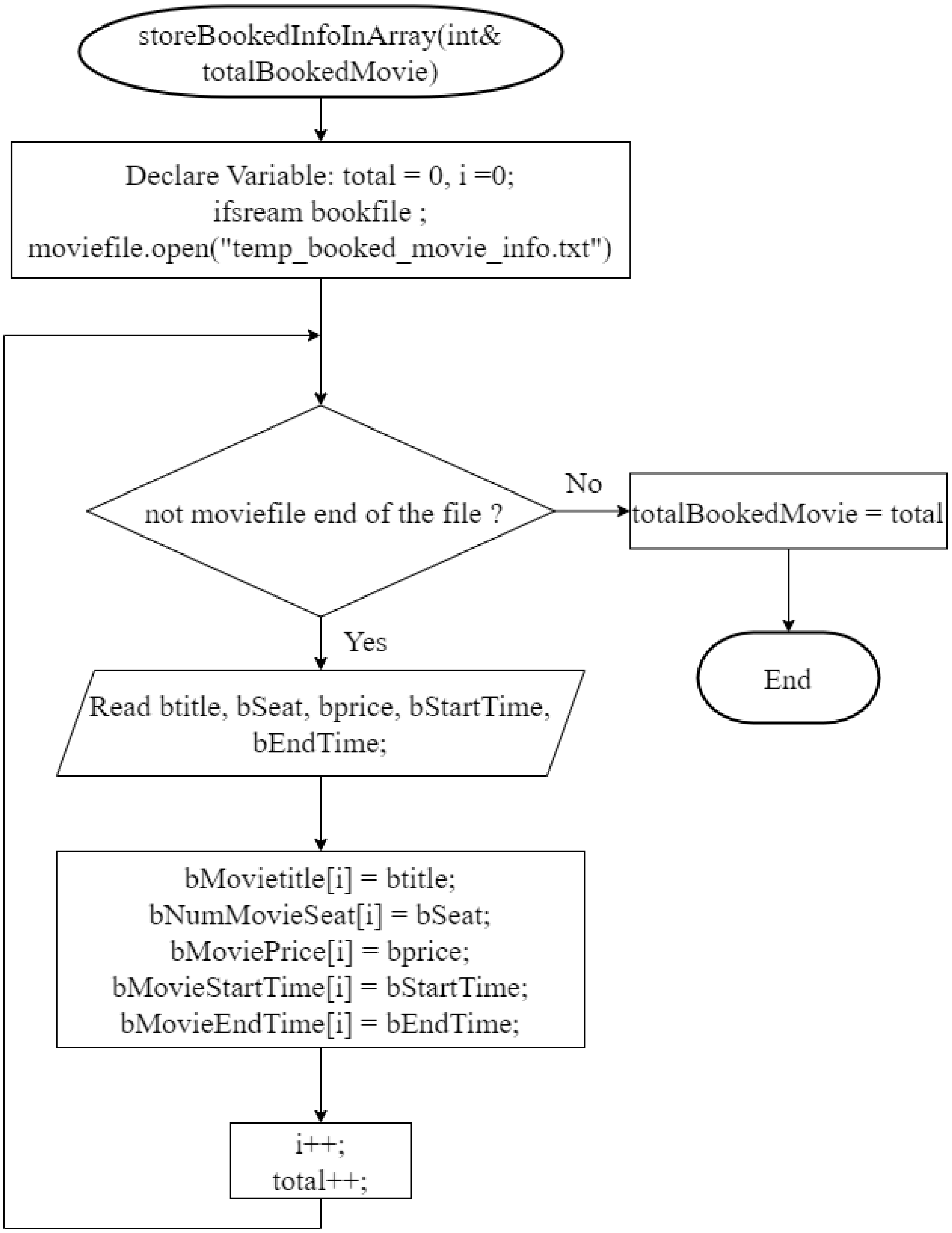

cancelBooking()
storeBookedInfoInArray (totalBookedMovie)
Display cancelBooking Decoration
totalBookedMovie less than 1 ?
Yes
Display Message " You have not book any movie";
userUI()
F2
No
Declare Variable : choice ofstream cancelFile
Display cancelBooking Setting
Prompt user to enter booking to cancel (choice)
Read choice
F1


F1
Declare Variable i = 0;
i < totalBookedMovie -1
No
Yes
bMovietitle[i-1] = bMovietitle[i];
bNumMovieSeat[i-1] = bNumMovieSeat[i];
bMoviePrice[i-1] = bMoviePrice[i];
bMovieStartTime[i-1] = bMovieStartTime[i];
bMovieEndTime[i-1] = bMovieEndTime[i];
i ++;
CancelFile.open ("temp_booked_movie_info.txt");
Store the booking detail into CancelFile
CancelFile.close()
F2
End

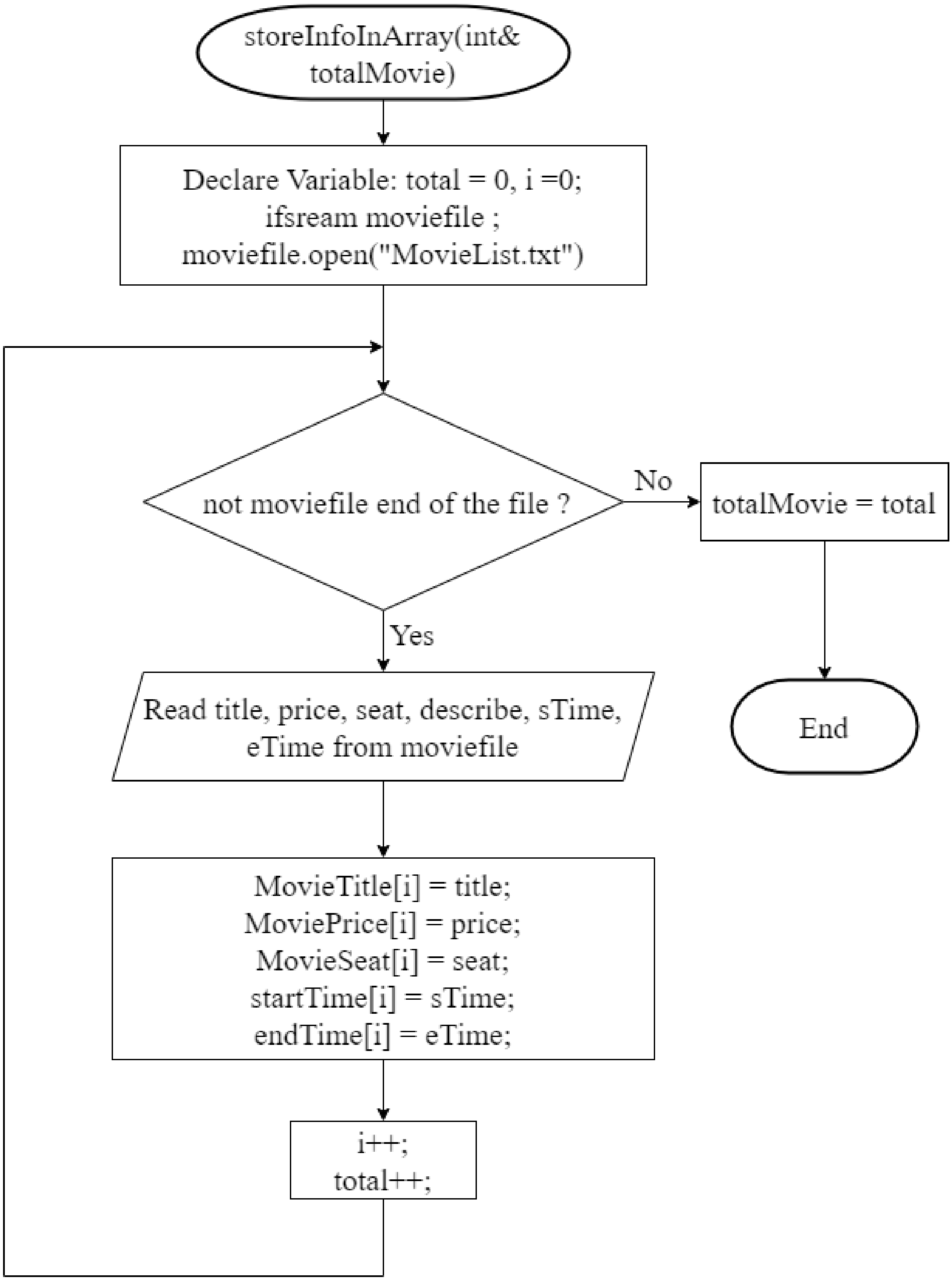
Flowchart of Function: paybill()


paybill()
storeBookedInfoInArray (totalBookedMovie)
Declare Variable : i = 0 totalPrice = 0, choice; ofstream clearFile, adminFile;
Display cancelBooking Decoration and Setting
i < totalBookedMovie - 1 ?
No
P1
Yes
totalPrice += bMoviePrice[i] * bNumMovieSeat[i]
i++;
P1
Display totalPrice
Prompt user to enter payment (choice)
Read choice
choice equal to "Y"or "y"
No
Yes
clearFile.open ("temp_booked_movie_info.txt")
Clear data inside clearFile
clearFile.close()
adminFile.open ("AdminView.txt,ios::app)
store payment detail into adminFile
adminFile.close()
End

Flowchart of Function: storeBookedInfoInArray(int& totalBookedMovie)


storeBookedInfoInArray(int& totalBookedMovie)
Declare Variable: total = 0, i =0;
ifsream bookfile ;
moviefile.open("temp_booked_movie_info.txt")
not moviefile end of the file ?
No
totalBookedMovie = total
End
Yes
Read btitle, bSeat, bprice, bStartTime, bEndTime;
bMovietitle[i] = btitle;
bNumMovieSeat[i] = bSeat;
bMoviePrice[i] = bprice;
bMovieStartTime[i] = bStartTime;
bMovieEndTime[i] = bEndTime;
i++;
total++;

Flowchart of Function: storeInfoInArray(int& totalMovie)

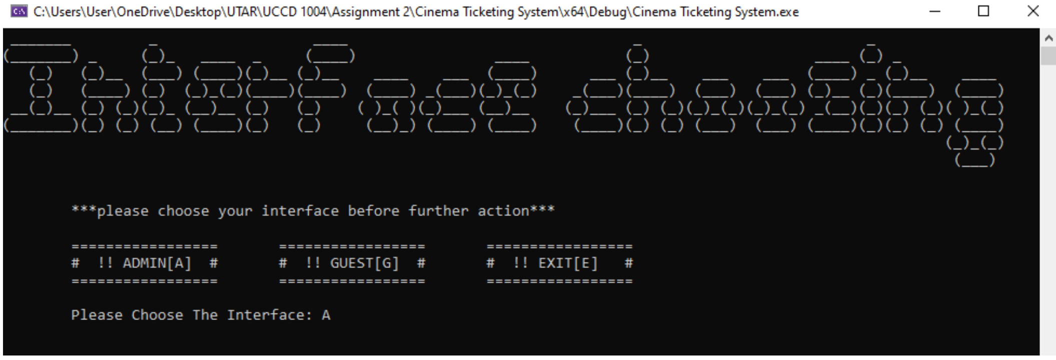

storeInfoInArray(int& totalMovie)
Declare Variable: total = 0, i =0;
ifsream moviefile ;
moviefile.open("MovieList.txt")
not moviefile end of the file ?
No
totalMovie = total
End
Yes
Read title, price, seat, describe, sTime, eTime from moviefile
MovieTitle[i] = title;
MoviePrice[i] = price;
MovieSeat[i] = seat;
startTime[i] = sTime;
endTime[i] = eTime;
i++;
total++;

Testcases

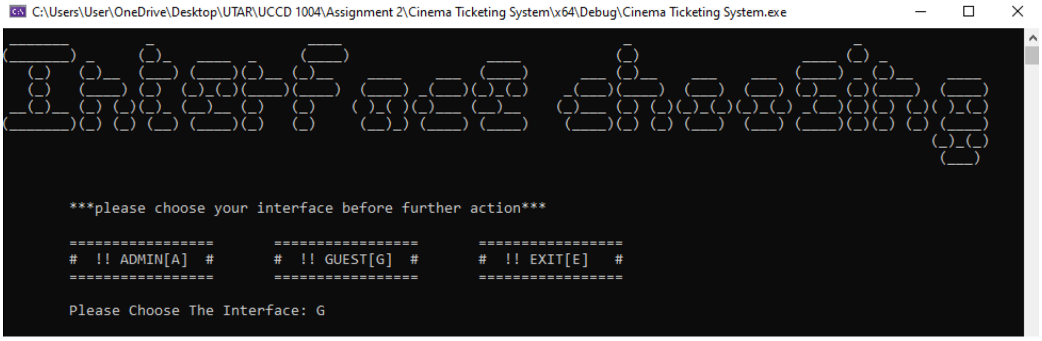
Test Cases for Interface Choosing – function home()

Valid Input:

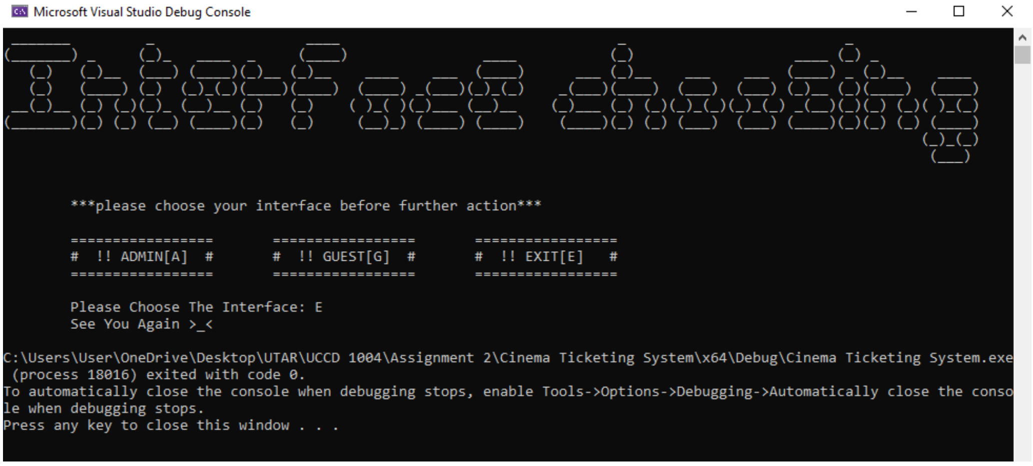
1. A or a to proceed admin login interface – loginadmin()
2. G or g to proceed login register interface – LoginRegister()
3. E or e to exit the program



```
        ***please choose your interface before further action***

        ================       ================       ================
        #  !! ADMIN[A]  #      #  !! GUEST[G]  #      #  !! EXIT[E]   #
        ================       ================       ================

        Please Choose The Interface: A
```



```
        ***please choose your interface before further action***

        ================       ================       ================
        #  !! ADMIN[A]  #      #  !! GUEST[G]  #      #  !! EXIT[E]   #
        ================       ================       ================

        Please Choose The Interface: G
```

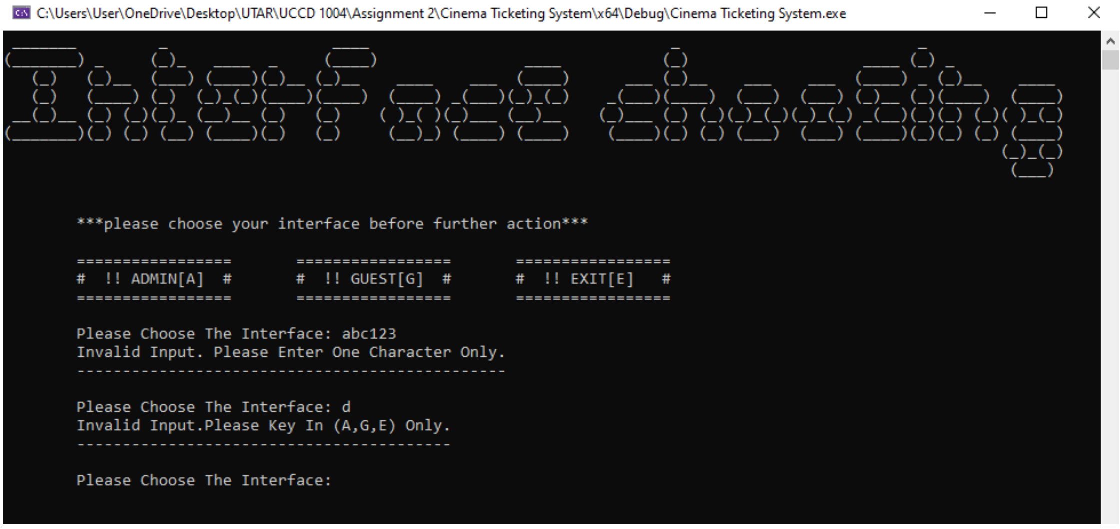


```
        ***please choose your interface before further action***

        ================       ================       ================
        #  !! ADMIN[A]  #      #  !! GUEST[G]  #      #  !! EXIT[E]   #
        ================       ================       ================

        Please Choose The Interface: E
        See You Again >_<

C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe
 (process 18016) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
le when debugging stops.
Press any key to close this window . . .
```

Invalid Input:

1. Any input except uppercase and lowercase of “A”, “G” and “E”.

System will display Invalid Input and prompt user to choose interface again.


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

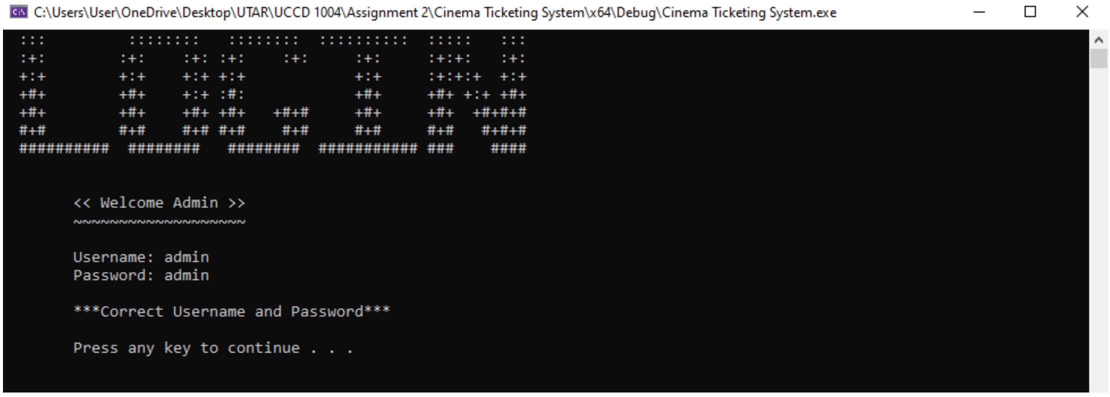
```
        ***please choose your interface before further action***

        =================       =================       =================
        #  !! ADMIN[A]  #       #  !! GUEST[G]  #       #  !! EXIT[E]   #
        =================       =================       =================

        Please Choose The Interface: abc123
        Invalid Input. Please Enter One Character Only.
        ------------------------------------------------

        Please Choose The Interface: d
        Invalid Input.Please Key In (A,G,E) Only.
        ------------------------------------------

        Please Choose The Interface:
```

Test Cases for Admin Login Interface – function loginadmin()

Valid Input:

1. Key in admin for username
2. Key in admin for password

Proceed to admin interface login



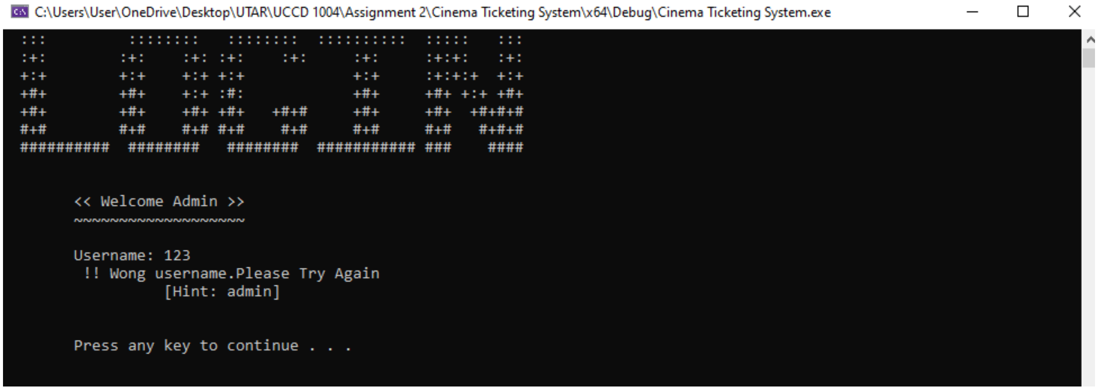
C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
 :::        ::::::::   ::::::::  ::::::::::: ::::    :::
 :+:       :+:    :+: :+:    :+:     :+:     :+:+:   :+:
 +:+       +:+    +:+ +:+            +:+     :+:+:+  +:+
 +#+       +#+    +:+ :#:            +#+     +#+ +:+ +#+
 +#+       +#+    +#+ +#+   +#+#     +#+     +#+  +#+#+#
 #+#       #+#    #+# #+#    #+#     #+#     #+#   #+#+#
 ########## ########   ########  ########### ###    ####


        << Welcome Admin >>
        ~~~~~~~~~~~~~~~~~~~~

        Username: admin
        Password: admin

        ***Correct Username and Password***

        Press any key to continue . . .
```

Invalid Input:

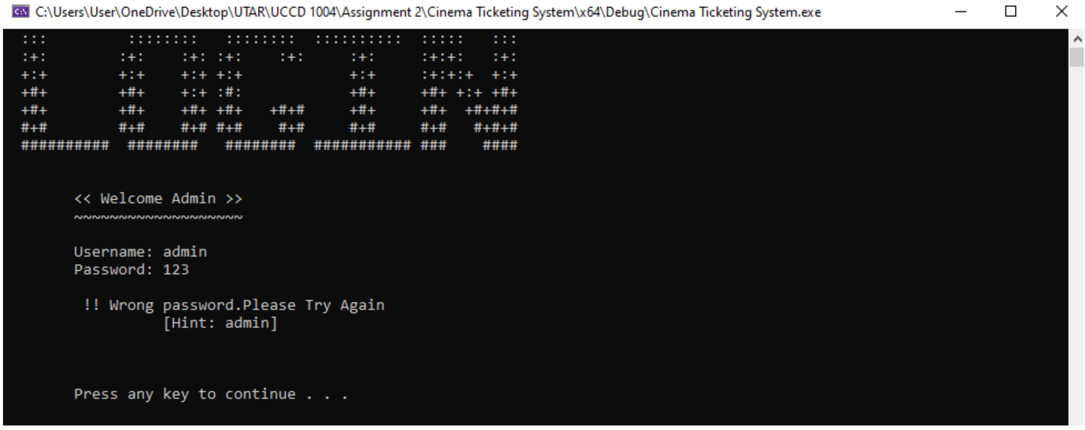
1. Any input except "admin" for both username and password

Hint for username and password will be shown and request to key in username and password again.



C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
 :::        ::::::::   ::::::::  ::::::::::: ::::    :::
 :+:       :+:    :+: :+:    :+:     :+:     :+:+:   :+:
 +:+       +:+    +:+ +:+            +:+     :+:+:+  +:+
 +#+       +#+    +:+ :#:            +#+     +#+ +:+ +#+
 +#+       +#+    +#+ +#+   +#+#     +#+     +#+  +#+#+#
 #+#       #+#    #+# #+#    #+#     #+#     #+#   #+#+#
 ########## ########   ########  ########### ###    ####


        << Welcome Admin >>
        ~~~~~~~~~~~~~~~~~~~~

        Username: 123
         !! Wong username.Please Try Again
                  [Hint: admin]


        Press any key to continue . . .
```



C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

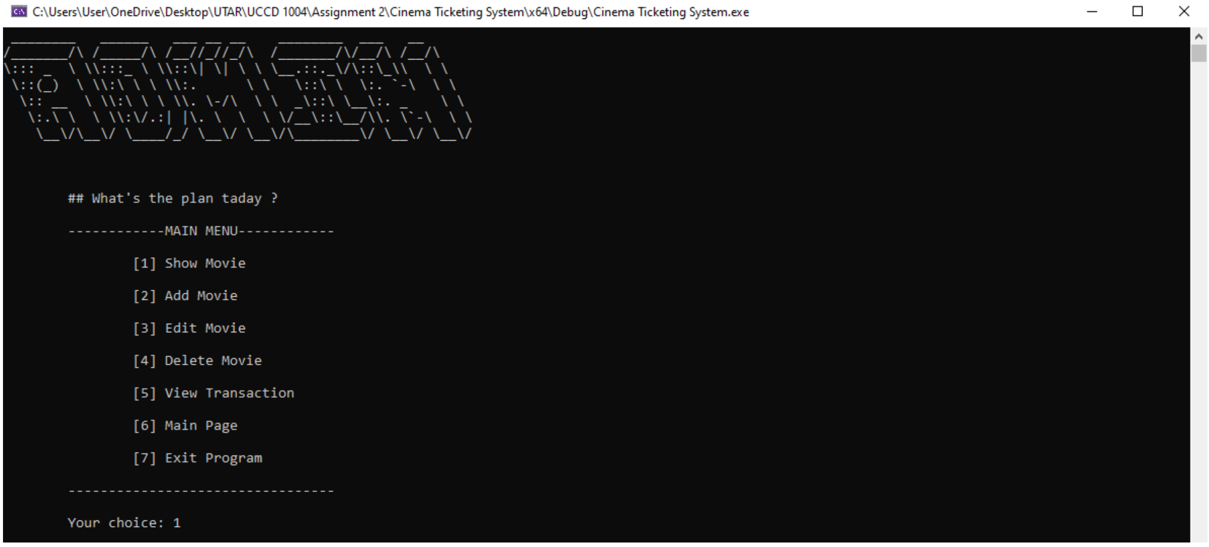
```
 :::        ::::::::   ::::::::  ::::::::::: ::::    :::
 :+:       :+:    :+: :+:    :+:     :+:     :+:+:   :+:
 +:+       +:+    +:+ +:+            +:+     :+:+:+  +:+
 +#+       +#+    +:+ :#:            +#+     +#+ +:+ +#+
 +#+       +#+    +#+ +#+   +#+#     +#+     +#+  +#+#+#
 #+#       #+#    #+# #+#    #+#     #+#     #+#   #+#+#
 ########## ########   ########  ########### ###    ####


        << Welcome Admin >>
        ~~~~~~~~~~~~~~~~~~~~

        Username: admin
        Password: 123

         !! Wrong password.Please Try Again
                  [Hint: admin]


        Press any key to continue . . .
```

Test Cases for Admin Interface – function admin()

Valid Input:

1. Integer within the range 1-7

System will proceed to respective modules based on admin's choice.



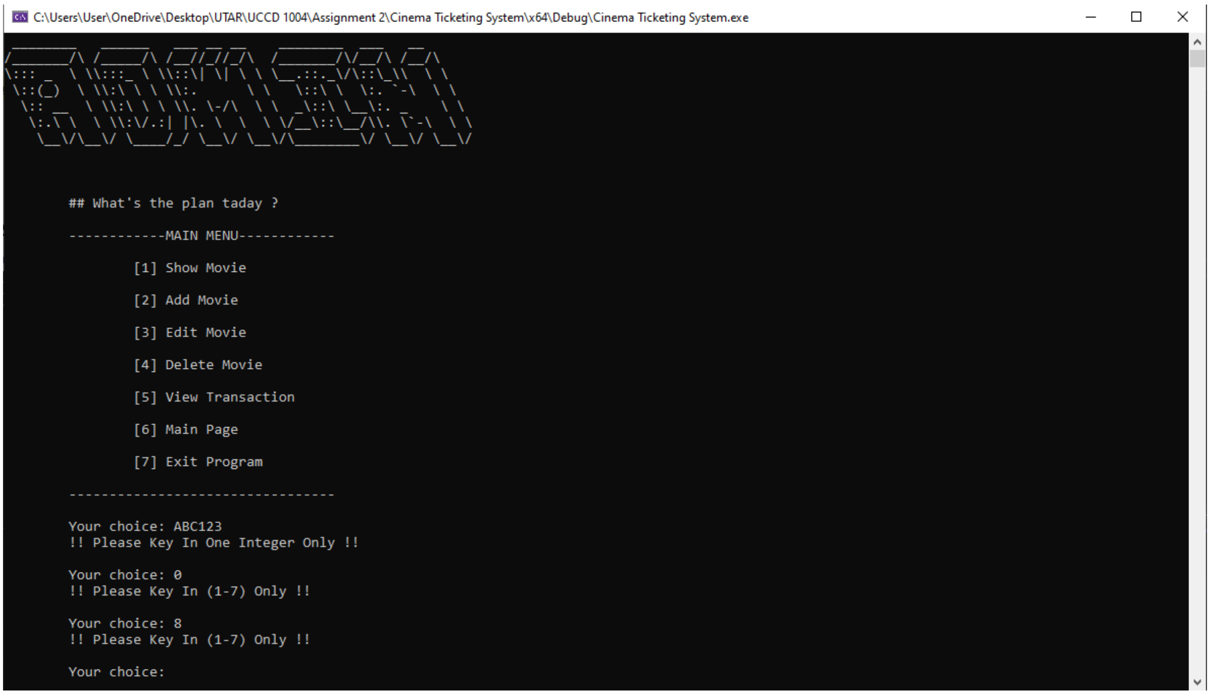
C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
 ________   ______   ___ __ __    ________  ___   __
/_______/\ /_____/\ /__//_//_/\  /_______/\/__/\ /__/\
\::: _  \ \\:::_ \ \\::\| \| \ \ \__.::._\/\::\_\\  \ \
 \::(_)  \ \\:\ \ \ \\:.      \ \   \::\ \  \:. `-\  \ \
  \:: __  \ \\:\ \ \ \\:.\-/\ \ \  _\::\ \__\:. _    \ \
   \:.\ \  \ \\:\/.:| |\. \  \ \ \ /__\::\__/\\. \`-\  \ \
    \__\/\__\/ \____/_/ \__\/ \__\/\________\/ \__\/ \__\/


        ## What's the plan taday ?

        ------------MAIN MENU------------

                [1] Show Movie

                [2] Add Movie

                [3] Edit Movie

                [4] Delete Movie

                [5] View Transaction

                [6] Main Page

                [7] Exit Program

        ---------------------------------

        Your choice: 1
```

Invalid Input:

1. Integer not in the range 1-7.
2. Input is more than 1 character

System will display Invalid Input and ask for admin to choose plan again.



C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

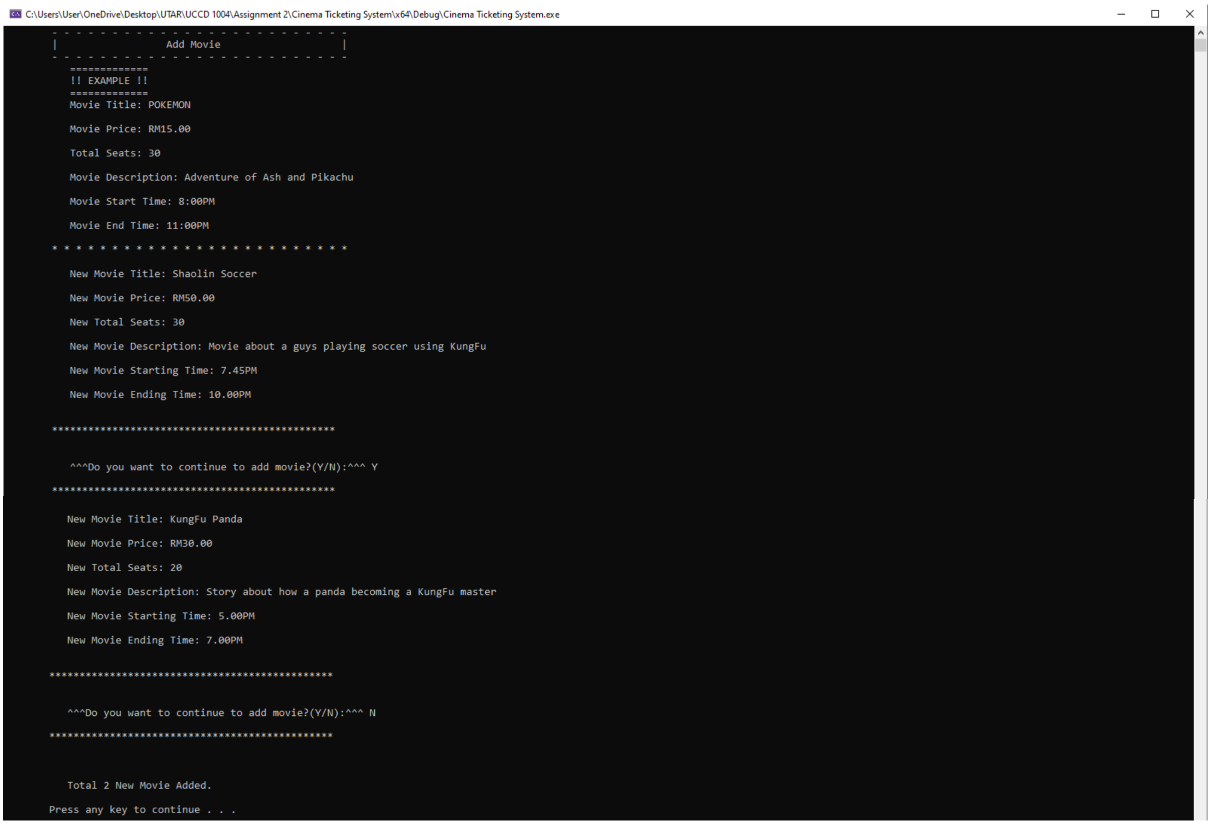
```
 ________   ______   ___ __ __    ________  ___   __
/_______/\ /_____/\ /__//_//_/\  /_______/\/__/\ /__/\
\::: _  \ \\:::_ \ \\::\| \| \ \ \__.::._\/\::\_\\  \ \
 \::(_)  \ \\:\ \ \ \\:.      \ \   \::\ \  \:. `-\  \ \
  \:: __  \ \\:\ \ \ \\:.\-/\ \ \  _\::\ \__\:. _    \ \
   \:.\ \  \ \\:\/.:| |\. \  \ \ \ /__\::\__/\\. \`-\  \ \
    \__\/\__\/ \____/_/ \__\/ \__\/\________\/ \__\/ \__\/


        ## What's the plan taday ?

        ------------MAIN MENU------------

                [1] Show Movie

                [2] Add Movie

                [3] Edit Movie

                [4] Delete Movie

                [5] View Transaction

                [6] Main Page

                [7] Exit Program

        ---------------------------------

        Your choice: ABC123
        !! Please Key In One Integer Only !!

        Your choice: 0
        !! Please Key In (1-7) Only !!

        Your choice: 8
        !! Please Key In (1-7) Only !!

        Your choice:
```

Test Cases for Add Movie module – function addMovie()

Valid Input:

1. Correct format when adding new movie.
2. “Y”, “y”, “N” and “n” to continue.

Total New Movie added will display and back to admin interface.

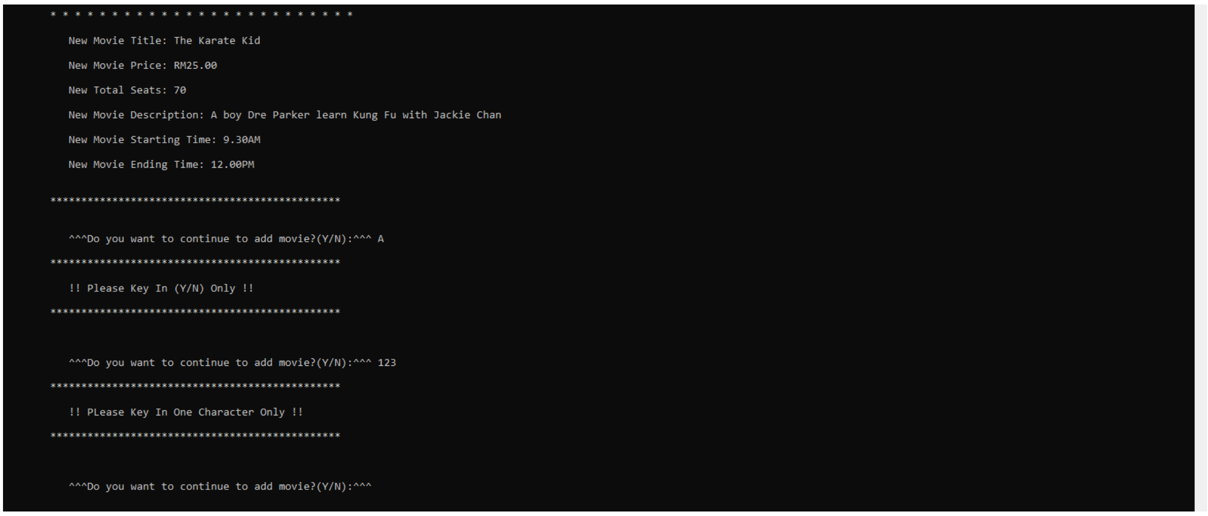


```
C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe
 - - - - - - - - - - - - - - - - - - - - - - - - -
 |                 Add Movie                     |
 - - - - - - - - - - - - - - - - - - - - - - - - -
   =============
   !! EXAMPLE !!
   =============
   Movie Title: POKEMON

   Movie Price: RM15.00

   Total Seats: 30

   Movie Description: Adventure of Ash and Pikachu

   Movie Start Time: 8:00PM

   Movie End Time: 11:00PM

 * * * * * * * * * * * * * * * * * * * * * * * * *

   New Movie Title: Shaolin Soccer

   New Movie Price: RM50.00

   New Total Seats: 30

   New Movie Description: Movie about a guys playing soccer using KungFu

   New Movie Starting Time: 7.45PM

   New Movie Ending Time: 10.00PM

 ***********************************************

   ^^^Do you want to continue to add movie?(Y/N):^^^ Y
 ***********************************************

   New Movie Title: KungFu Panda

   New Movie Price: RM30.00

   New Total Seats: 20

   New Movie Description: Story about how a panda becoming a KungFu master

   New Movie Starting Time: 5.00PM

   New Movie Ending Time: 7.00PM

 ***********************************************

   ^^^Do you want to continue to add movie?(Y/N):^^^ N
 ***********************************************


   Total 2 New Movie Added.

 Press any key to continue . . .
```

Invalid Input:

1. Character except uppercase or lowercase of “Y” and “N” to continue
2. More than one character to continue

System will display Invalid Input and prompt admin to type again.



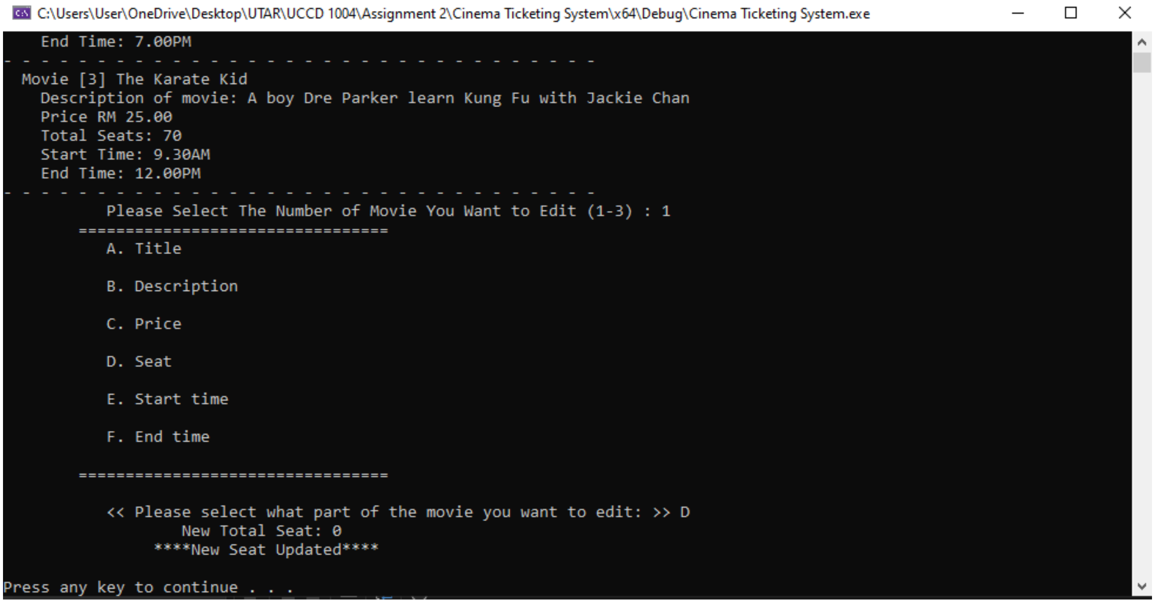
```
 * * * * * * * * * * * * * * * * * * * * * * * * *

   New Movie Title: The Karate Kid

   New Movie Price: RM25.00

   New Total Seats: 70

   New Movie Description: A boy Dre Parker learn Kung Fu with Jackie Chan

   New Movie Starting Time: 9.30AM

   New Movie Ending Time: 12.00PM

 ***********************************************

   ^^^Do you want to continue to add movie?(Y/N):^^^ A
 ***********************************************

   !! Please Key In (Y/N) Only !!
 ***********************************************


   ^^^Do you want to continue to add movie?(Y/N):^^^ 123
 ***********************************************

   !! PLease Key In One Character Only !!
 ***********************************************


   ^^^Do you want to continue to add movie?(Y/N):^^^
```

Test Cases for Edit Movie module – function editMovie()

Valid Input:

1. Select the Number of Movie that in range.
2. Select the correct part of movie to edit -- uppercase or lowercase (A-F)

System will display edited setting and back to admin interface.



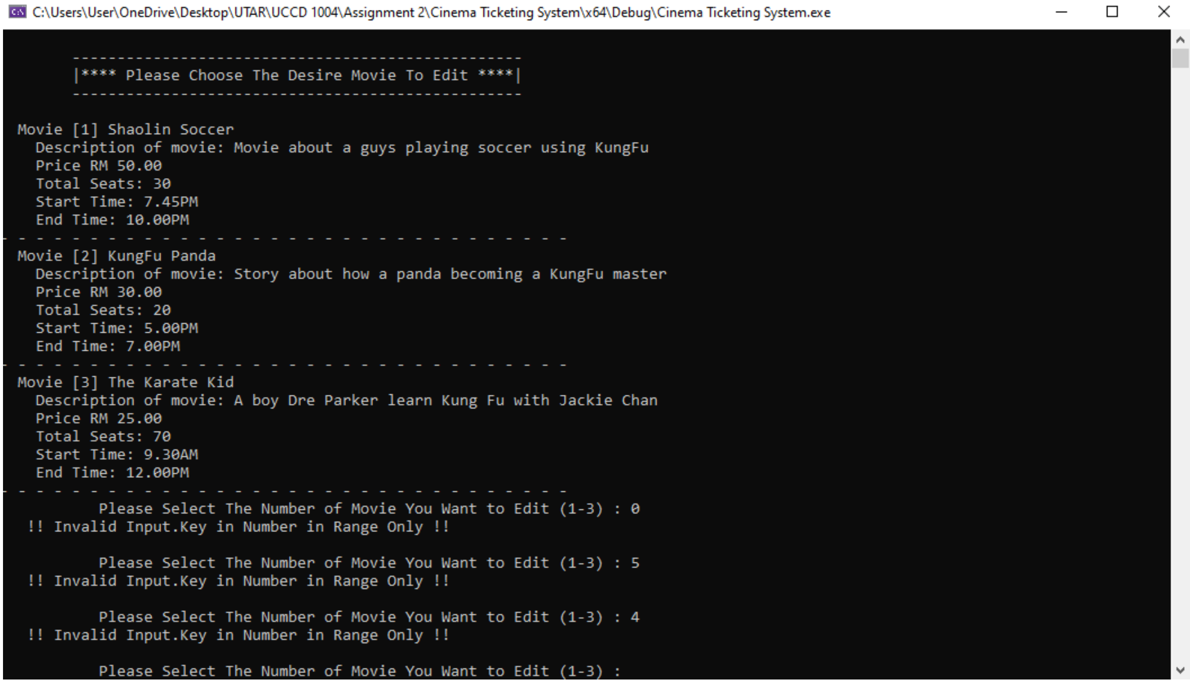
C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
    End Time: 7.00PM
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  Movie [3] The Karate Kid
    Description of movie: A boy Dre Parker learn Kung Fu with Jackie Chan
    Price RM 25.00
    Total Seats: 70
    Start Time: 9.30AM
    End Time: 12.00PM
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
           Please Select The Number of Movie You Want to Edit (1-3) : 1
        =================================
           A. Title

           B. Description

           C. Price

           D. Seat

           E. Start time

           F. End time

        =================================

           << Please select what part of the movie you want to edit: >> D
                   New Total Seat: 0
                ****New Seat Updated****

Press any key to continue . . .
```

Invalid Input:

1. Select the Number of Movie that are not in range

System will display Invalid Input and prompt admin to select movie to edit again.

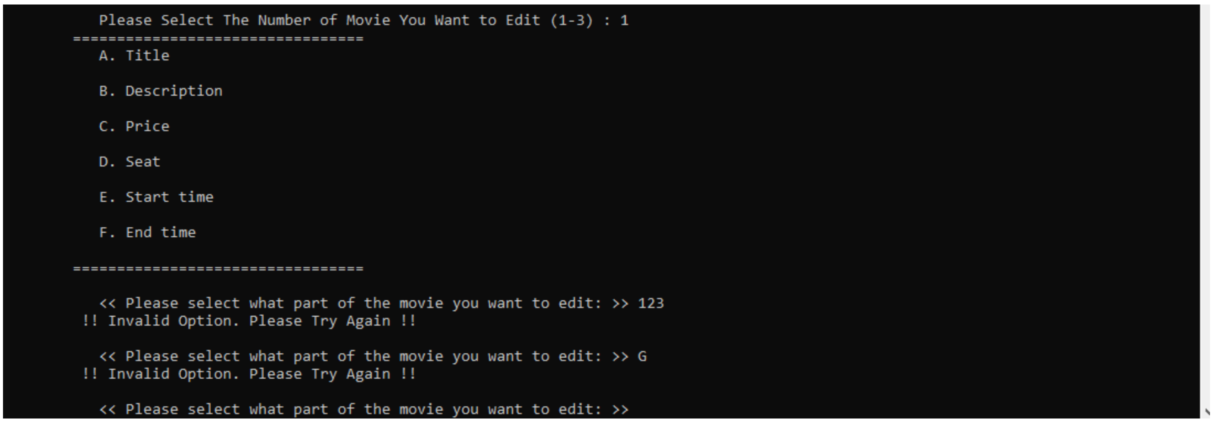


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
       -------------------------------------------------
       |**** Please Choose The Desire Movie To Edit ****|
       -------------------------------------------------

  Movie [1] Shaolin Soccer
    Description of movie: Movie about a guys playing soccer using KungFu
    Price RM 50.00
    Total Seats: 30
    Start Time: 7.45PM
    End Time: 10.00PM
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  Movie [2] KungFu Panda
    Description of movie: Story about how a panda becoming a KungFu master
    Price RM 30.00
    Total Seats: 20
    Start Time: 5.00PM
    End Time: 7.00PM
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  Movie [3] The Karate Kid
    Description of movie: A boy Dre Parker learn Kung Fu with Jackie Chan
    Price RM 25.00
    Total Seats: 70
    Start Time: 9.30AM
    End Time: 12.00PM
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          Please Select The Number of Movie You Want to Edit (1-3) : 0
   !! Invalid Input.Key in Number in Range Only !!

          Please Select The Number of Movie You Want to Edit (1-3) : 5
   !! Invalid Input.Key in Number in Range Only !!

          Please Select The Number of Movie You Want to Edit (1-3) : 4
   !! Invalid Input.Key in Number in Range Only !!

          Please Select The Number of Movie You Want to Edit (1-3) :
```

2. Character except uppercase or lowercase for “A”, “B”, “C”, “D”, “E” and “F” for edit setting

System will display Invalid Input and prompt admin to select the part of movie to edit again.



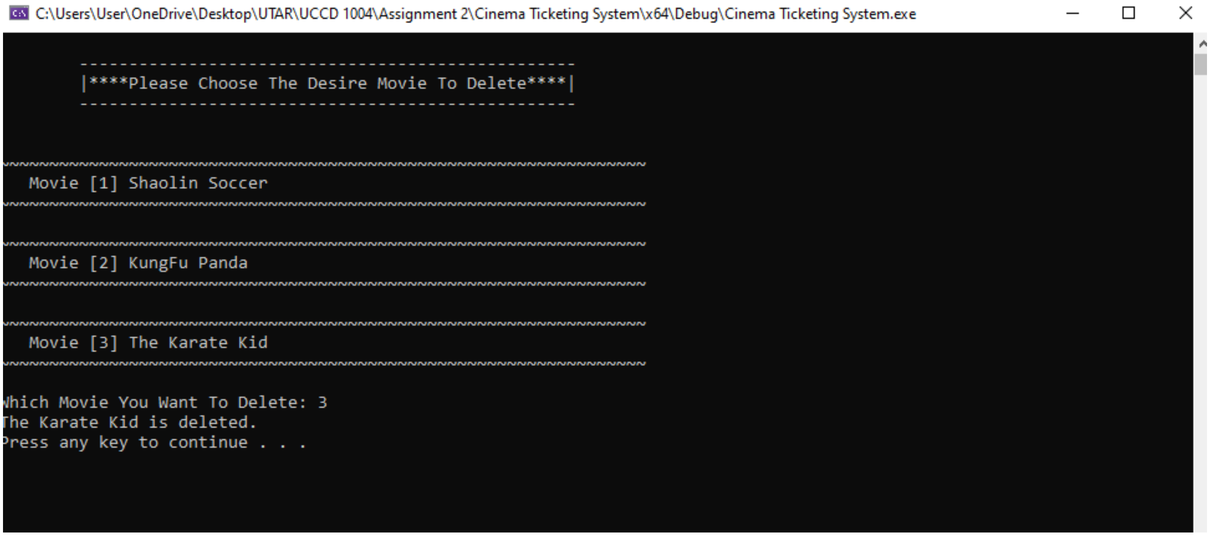
```
           Please Select The Number of Movie You Want to Edit (1-3) : 1
        =================================
           A. Title

           B. Description

           C. Price

           D. Seat

           E. Start time

           F. End time

        =================================

           << Please select what part of the movie you want to edit: >> 123
         !! Invalid Option. Please Try Again !!

           << Please select what part of the movie you want to edit: >> G
         !! Invalid Option. Please Try Again !!

           << Please select what part of the movie you want to edit: >>
```

Test Cases for Delete Movie module – function deleteMovie()

Valid Input:

1. Movie to delete is in range

System will display movie deleted and back to admin interface.



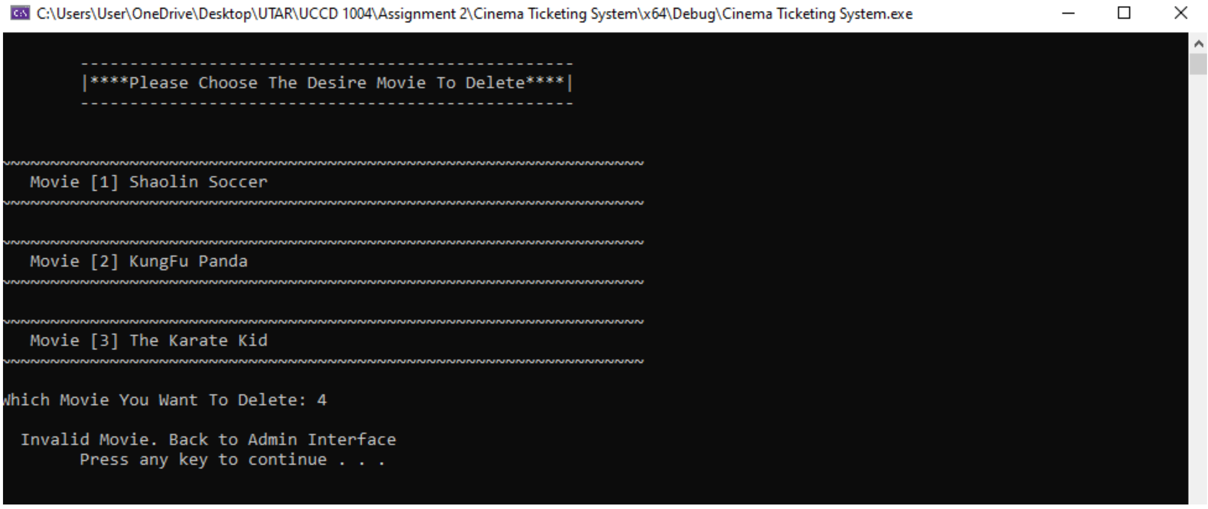
C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
        --------------------------------------------------
        |****Please Choose The Desire Movie To Delete****|
        --------------------------------------------------


~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
   Movie [1] Shaolin Soccer
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
   Movie [2] KungFu Panda
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
   Movie [3] The Karate Kid
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

hich Movie You Want To Delete: 3
he Karate Kid is deleted.
ress any key to continue . . .
```

Invalid Input:

1. Movie to delete out of range.

System will display Invalid Movie and back to admin interface.

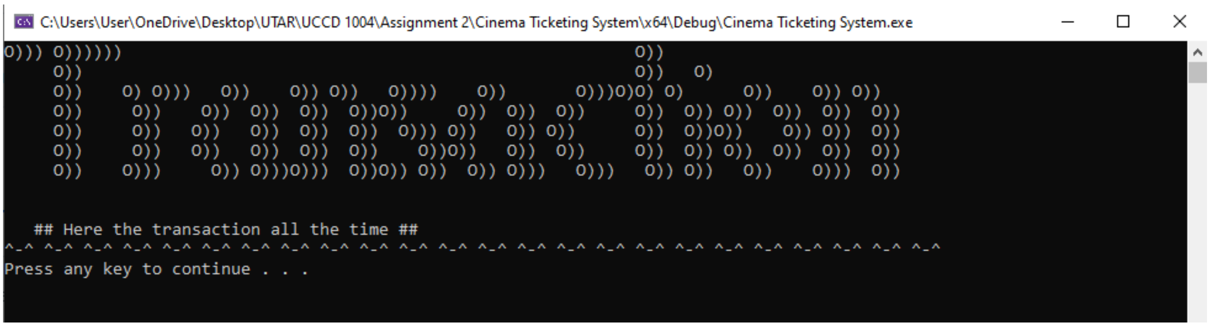


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

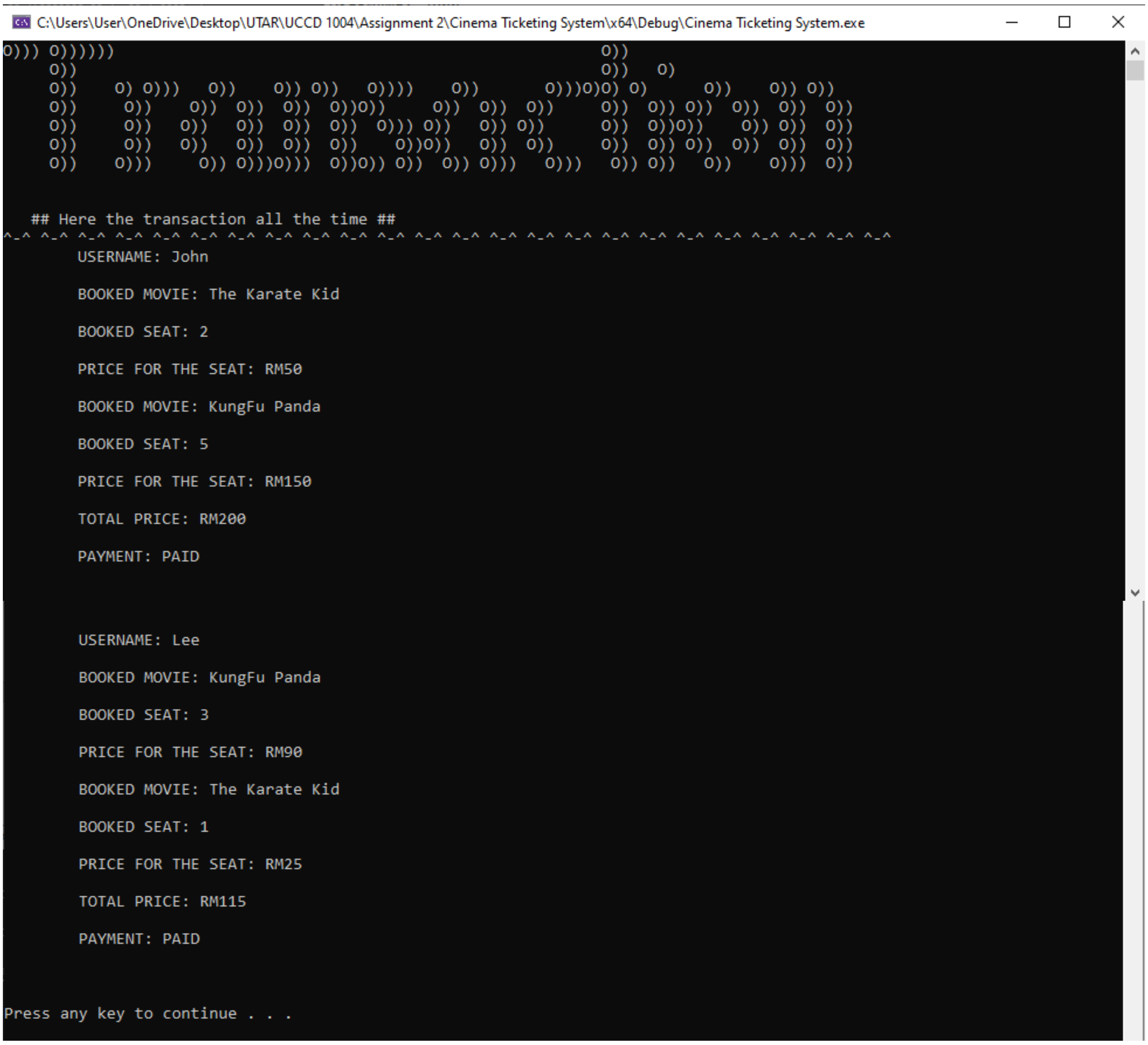
```
        --------------------------------------------------
        |****Please Choose The Desire Movie To Delete****|
        --------------------------------------------------


~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
   Movie [1] Shaolin Soccer
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
   Movie [2] KungFu Panda
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
   Movie [3] The Karate Kid
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

hich Movie You Want To Delete: 4

  Invalid Movie. Back to Admin Interface
        Press any key to continue . . .
```

Test Cases for View Transaction module – function ViewTrans()

No need input. System will direct display transaction of all the users. Will show nothing if there is no transaction done.


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
O))) O))))))                                                    O))
     O))                                                        O))   O)
     O))    O) O)))   O))    O)) O))   O))))    O))       O)))O)O) O)      O))    O)) O))
     O))     O))    O))  O))  O))  O))O))     O))  O))  O))     O))  O)) O))  O))  O))  O))
     O))     O))   O))   O))  O))  O))  O))) O))   O)) O))      O))  O))O))    O)) O))  O))
     O))     O))   O))   O))  O))  O))    O))O))   O))  O))     O))  O)) O))  O))  O))  O))
     O))    O)))     O)) O)))O)))  O))O)) O))  O)) O)))   O)))   O)) O))   O))    O)))  O))


   ## Here the transaction all the time ##
^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^
Press any key to continue . . .
```


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
O))) O))))))                                                    O))
     O))                                                        O))   O)
     O))    O) O)))   O))    O)) O))   O))))    O))       O)))O)O) O)      O))    O)) O))
     O))     O))    O))  O))  O))  O))O))     O))  O))  O))     O))  O)) O))  O))  O))  O))
     O))     O))   O))   O))  O))  O))  O))) O))   O)) O))      O))  O))O))    O)) O))  O))
     O))     O))   O))   O))  O))  O))    O))O))   O))  O))     O))  O)) O))  O))  O))  O))
     O))    O)))     O)) O)))O)))  O))O)) O))  O)) O)))   O)))   O)) O))   O))    O)))  O))


   ## Here the transaction all the time ##
^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^ ^_^
        USERNAME: John

        BOOKED MOVIE: The Karate Kid

        BOOKED SEAT: 2

        PRICE FOR THE SEAT: RM50

        BOOKED MOVIE: KungFu Panda

        BOOKED SEAT: 5

        PRICE FOR THE SEAT: RM150

        TOTAL PRICE: RM200

        PAYMENT: PAID


        USERNAME: Lee

        BOOKED MOVIE: KungFu Panda

        BOOKED SEAT: 3

        PRICE FOR THE SEAT: RM90

        BOOKED MOVIE: The Karate Kid

        BOOKED SEAT: 1

        PRICE FOR THE SEAT: RM25

        TOTAL PRICE: RM115

        PAYMENT: PAID


Press any key to continue . . .
```

Test Cases for User Register and Login module – function LoginResgister()

Valid Input:

1. “Y”, “y”, “N” and “n” to continue.

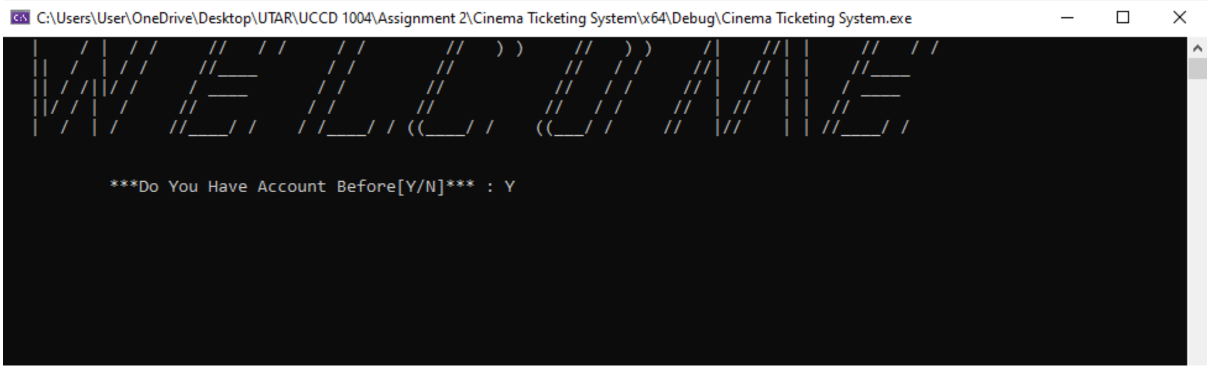
Invalid Input:

1. Number
2. Character other than “Y”, “y”, “N” and “n”

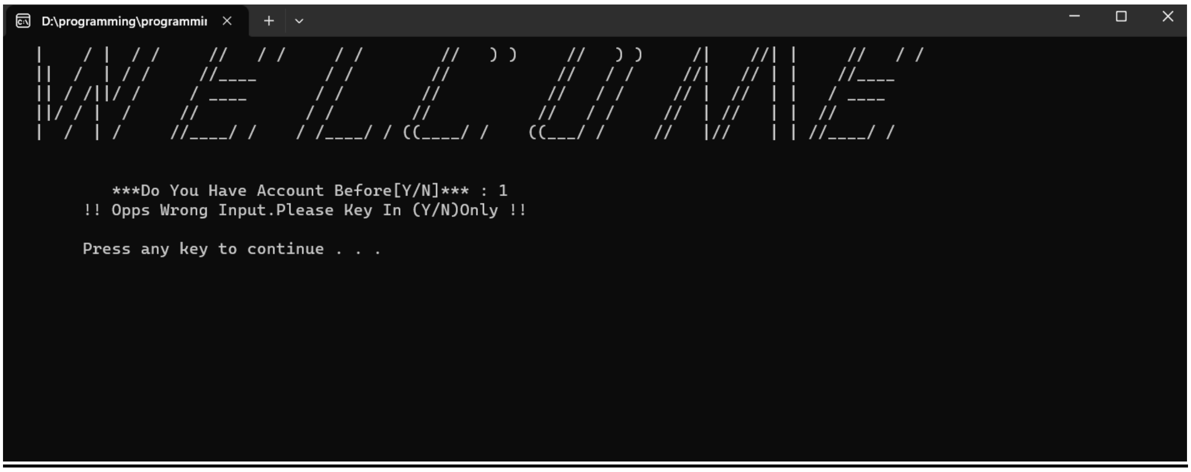
System will display Invalid Input and remind user to key in Y/N only then back to Login Register interface.

1. More than one character

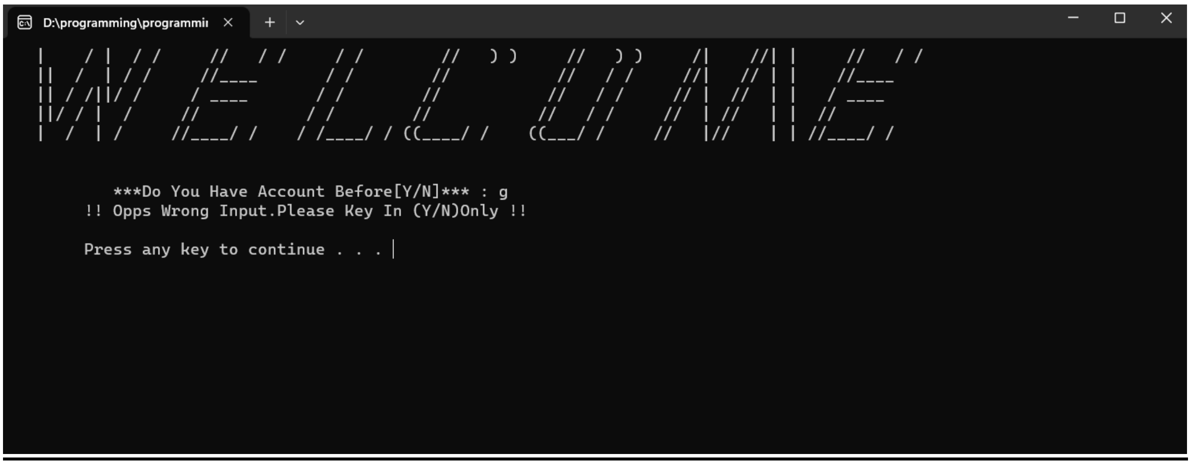
System will display Invalid Input and remind user to key in one letter only then back to Login Register interface.


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

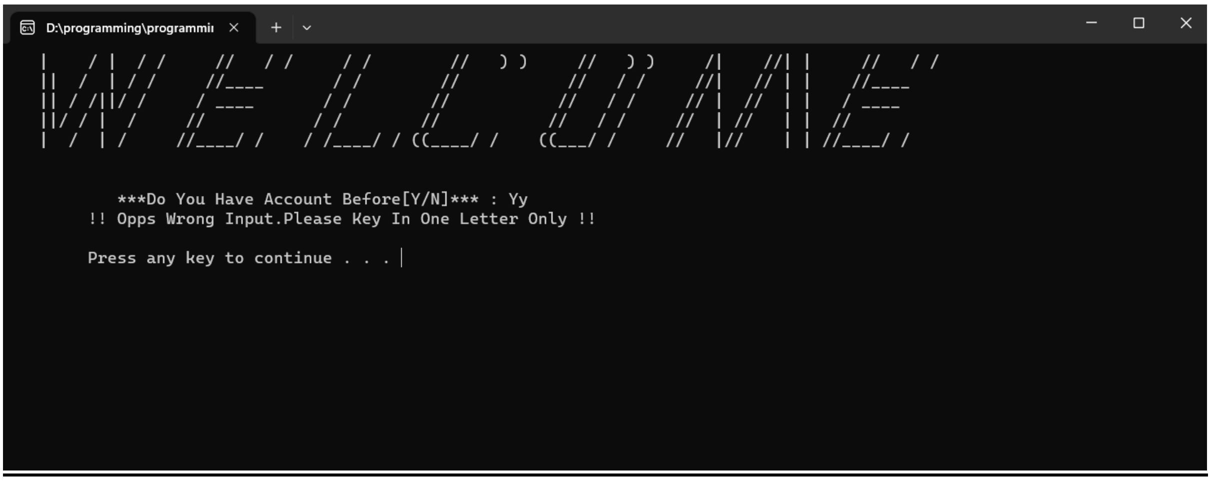
```
        ***Do You Have Account Before[Y/N]*** : Y
```



```
        ***Do You Have Account Before[Y/N]*** : 1
      !! Opps Wrong Input.Please Key In (Y/N)Only !!

      Press any key to continue . . .
```

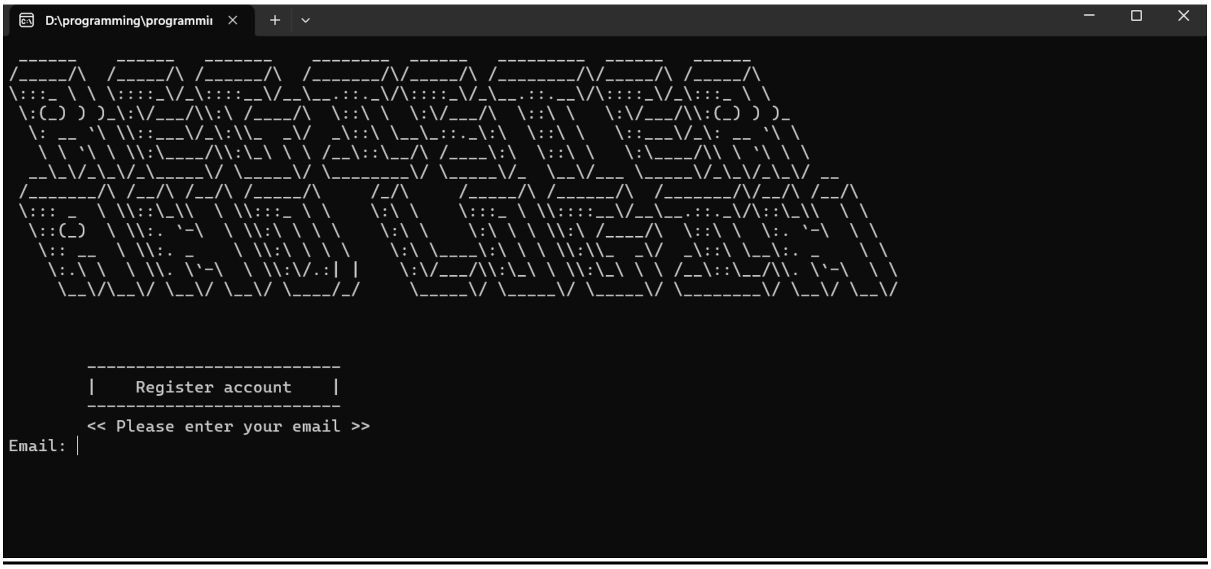


```
        ***Do You Have Account Before[Y/N]*** : g
      !! Opps Wrong Input.Please Key In (Y/N)Only !!

      Press any key to continue . . .
```



```
  |   / |  / /    //   / /    / /       //   ) )    //   ) )    /|    //| |    //   / /
  ||  /  | / /    //____     / /       //          //   / /    //|   // | |    //____
  || / /||/ /    / ____     / /       //          //   / /    // |  //  | |   / ____
  ||/ / |  /    //         / /       //          //   / /    //  | //   | |  //
  |  /  | /    //____/ /  / /____/ / ((____/ /   ((___/ /    //   |//    | | //____/ /


          ***Do You Have Account Before[Y/N]*** : Yy
      !! Opps Wrong Input.Please Key In One Letter Only !!

      Press any key to continue . . .
```

Key in N proceed to register interface to register an account.



```
 ______    ______   _______    ________  ______   _________  ______    ______
/_____/\  /_____/\ /______/\  /_______/\/_____/\ /________/\/_____/\ /_____/\
\:::_ \ \ \::::_\/_\::::__\/__\__.::._\/\::::_\/_\__.::.__\/\::::_\/_\:::_ \ \
 \:(_) ) )_\:\/___/\\:\ /____/\  \::\ \  \:\/___/\  \::\ \   \:\/___/\\:(_) ) )_
  \: __ `\ \\::___\/_\:\\_  _\/  _\::\ \__\_::._\:\  \::\ \   \::___\/_\: __ `\ \
   \ \ `\ \ \\:\____/\\:\_\ \ \ /__\::\__/\ /____\:\  \::\ \   \:\____/\\ \ `\ \ \
    \_\/ \_\/ \_____\/ \_____\/ \________\/ \_____\/_  \__\/___ \_____\/_\_\/_\_\/ __
 /_______/\ /__/\ /__/\ /_____/\     /_/\     /_____/\ /______/\  /_______/\/__/\ /__/\
 \::: _  \ \\::\_\\  \ \\:::_ \ \    \:\ \    \:::_ \ \\:::::__\/__\__.::._\/\::\_\\  \ \
  \::(_)  \ \\:. `-\  \ \\:\ \ \ \    \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
   \:: __  \ \\:. _    \ \\:\ \ \ \    \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
    \:.\ \  \ \\. \`-\  \ \\:\/.:| |    \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
     \__\/\__\/ \__\/ \__\/ \____/_/     \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/



        --------------------------
        |    Register account    |
        --------------------------
        << Please enter your email >>
Email:
```

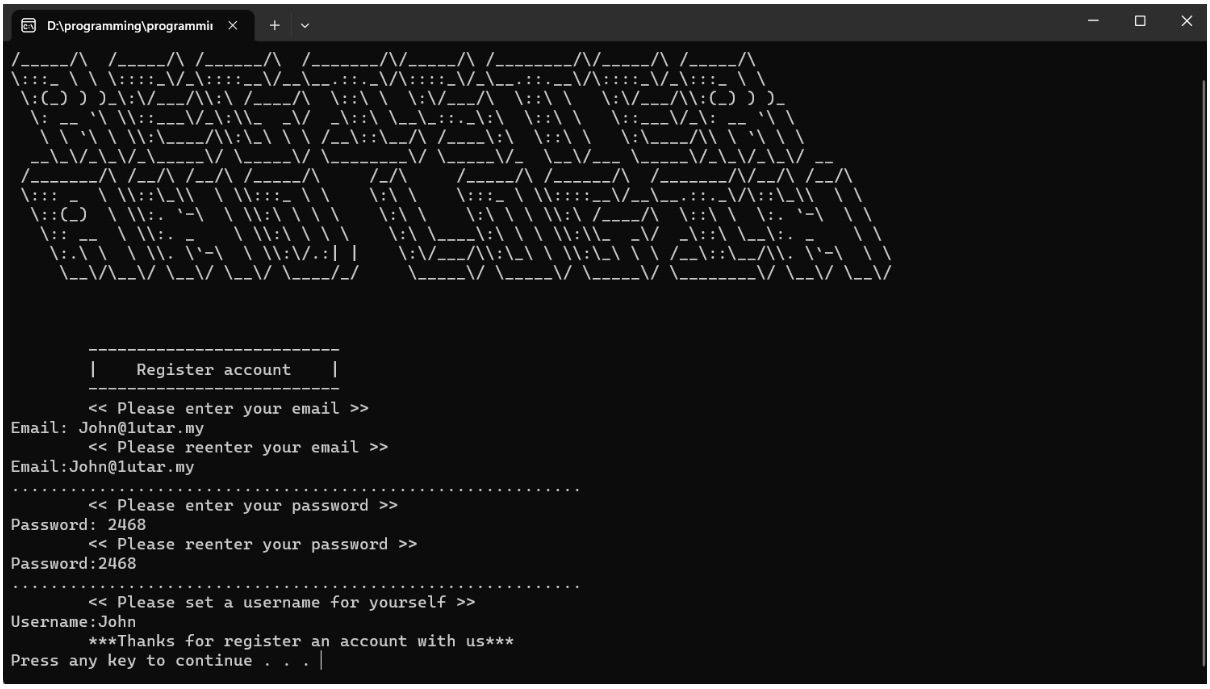
Sample register

Email: John@1utar.my

Password: 2468

Username: John

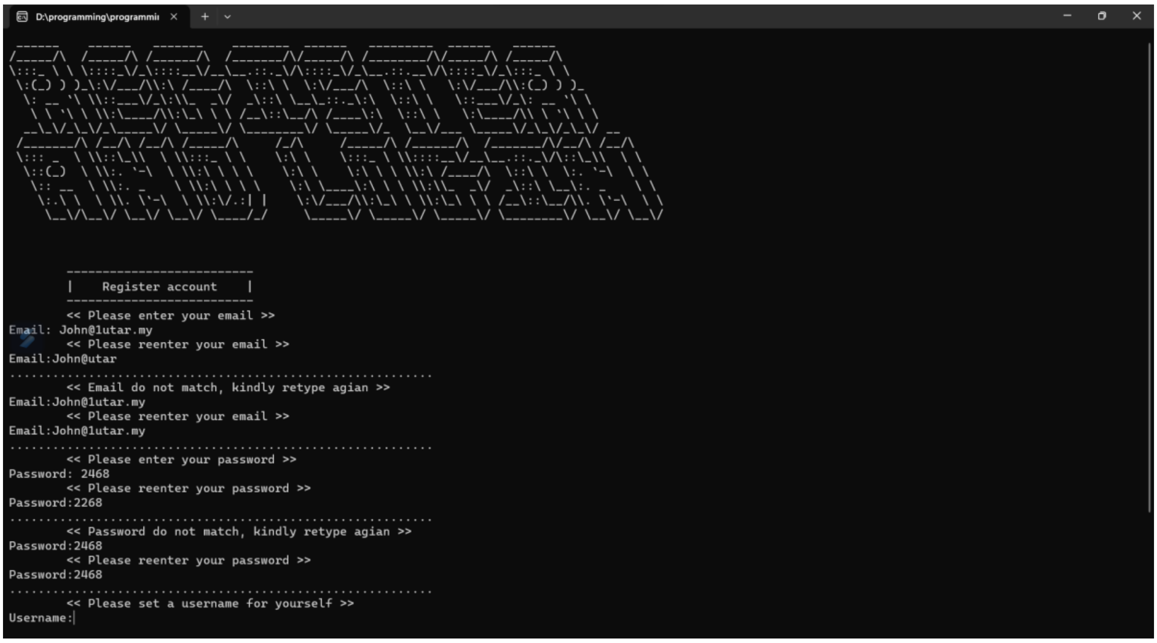
System will proceed to Login interface.



```
/_____/\  /_____/\ /______/\  /_______/\/_____/\ /________/\/_____/\ /_____/\
\:::_ \ \ \::::_\/_\::::__\/__\__.::._\/\::::_\/_\__.::.__\/\::::_\/_\:::_ \ \
 \:(_) ) )_\:\/___/\\:\ /____/\  \::\ \  \:\/___/\  \::\ \   \:\/___/\\:(_) ) )_
  \: __ `\ \\::___\/_\:\\_  _\/  _\::\ \__\_::._\:\  \::\ \   \::___\/_\: __ `\ \
   \ \ `\ \ \\:\____/\\:\_\ \ \ /__\::\__/\ /____\:\  \::\ \   \:\____/\\ \ `\ \ \
  __\_\/_\_\/_\_____\/ \_____\/ \________\/ \_____\/_  \__\/___ \_____\/_\_\/_\_\/ __
 /_______/\ /__/\ /__/\ /_____/\     /_/\     /_____/\ /______/\  /_______/\/__/\ /__/\
 \::: _  \ \\::\_\\  \ \\:::_ \ \    \:\ \    \:::_ \ \\::::__\/__\__.::._\/\::\_\\  \ \
  \::(_)  \ \\:. `-\  \ \\:\ \ \ \    \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
   \:: __  \ \\:. _    \ \\:\ \ \ \    \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
    \:.\ \  \ \\. \`-\  \ \\:\/.:| |    \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
     \__\/\__\/ \__\/ \__\/ \____/_/     \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/



        --------------------------
        |    Register account    |
        --------------------------
        << Please enter your email >>
Email: John@1utar.my
        << Please reenter your email >>
Email:John@1utar.my
...........................................................
        << Please enter your password >>
Password: 2468
        << Please reenter your password >>
Password:2468
...........................................................
        << Please set a username for yourself >>
Username:John
        ***Thanks for register an account with us***
Press any key to continue . . .
```

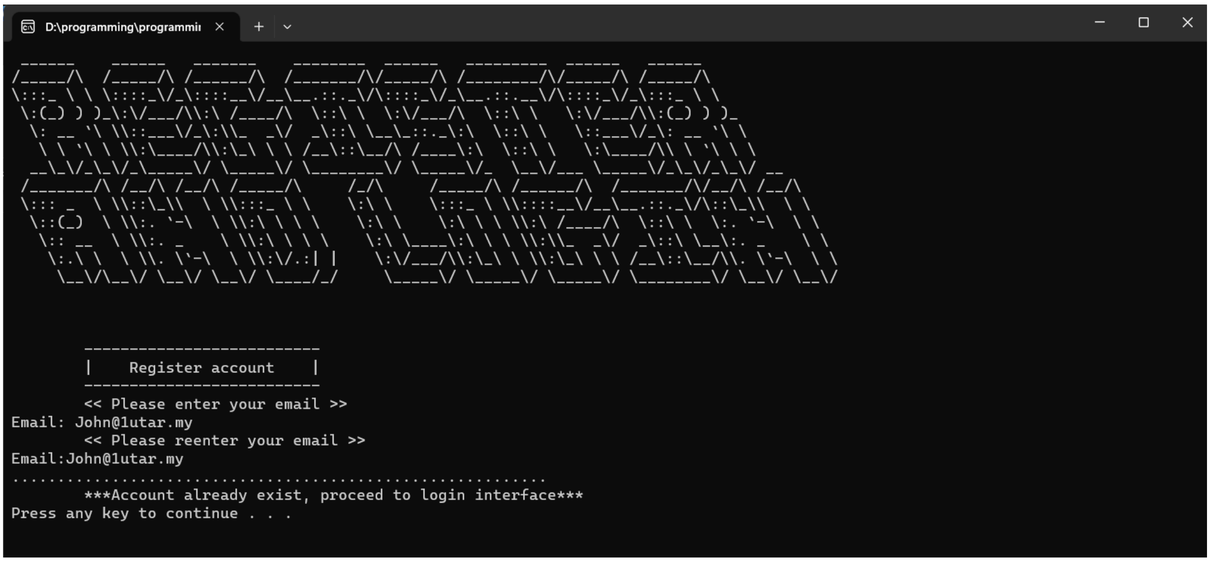
User prompt to key in email and password two times for confirmation.

When email or password input in the second time did not match the first input, system will ask user to reenter the email and password.



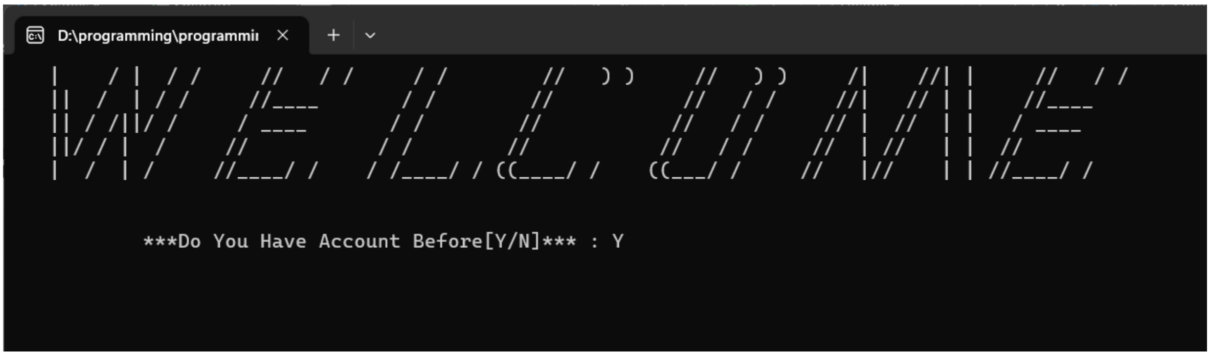
```
 ______    ______   _______    ________  ______   _________  ______   ______
/_____/\  /_____/\ /______/\  /_______/\/_____/\ /________/\/_____/\ /_____/\
\:::_ \ \ \::::_\/_\::::__\/__\__.::._\/\::::_\/_\__.::.__\/\::::_\/_\:::_ \ \
 \:(_) ) )_\:\/___/\\:\ /____/\  \::\ \  \:\/___/\  \::\ \   \:\/___/\\:(_) ) )_
  \: __ `\ \\::___\/_\:\\_  _\/  _\::\ \__\_::._\:\  \::\ \   \::___\/_\: __ `\ \
   \ \ `\ \ \\:\____/\\:\_\ \ \ /__\::\__/\ /____\:\  \::\ \   \:\____/\\ \ `\ \ \
  __\_\/_\_\/_\_____\/ \_____\/ \________\/ \_____\/_  \__\/___ \_____\/_\_\/_\_\/ __
 /_______/\ /__/\ /__/\ /_____/\     /_/\     /_____/\ /______/\  /_______/\/__/\ /__/\
 \::: _  \ \\::\_\\  \ \\:::_ \ \    \:\ \    \:::_ \ \\::::__\/__\__.::._\/\::\_\\  \ \
  \::(_)  \ \\:. `-\  \ \\:\ \ \ \    \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
   \:: __  \ \\:. _    \ \\:\ \ \ \    \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
    \:.\ \  \ \\. \`-\  \ \\:\/.:| |    \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
     \__\/\__\/ \__\/ \__\/ \____/_/     \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/



        --------------------------
        |    Register account    |
        --------------------------
        << Please enter your email >>
Email: John@1utar.my
        << Please reenter your email >>
Email:John@utar
...........................................................
        << Email do not match, kindly retype agian >>
Email:John@1utar.my
        << Please reenter your email >>
Email:John@1utar.my
...........................................................
        << Please enter your password >>
Password: 2468
        << Please reenter your password >>
Password:2268
...........................................................
        << Password do not match, kindly retype agian >>
Password:2468
        << Please reenter your password >>
Password:2468
...........................................................
        << Please set a username for yourself >>
Username:
```

If account already exist system will proceed to login interface

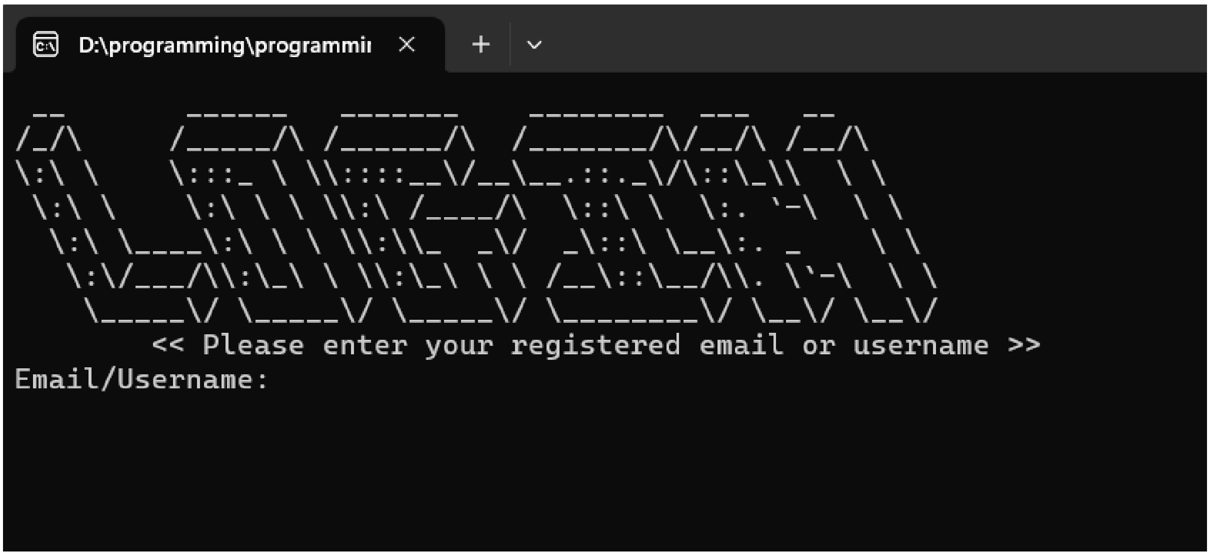


```
        -------------------------
        |    Register account    |
        -------------------------
        << Please enter your email >>
Email: John@1utar.my
        << Please reenter your email >>
Email:John@1utar.my
...........................................................
        ***Account already exist, proceed to login interface***
Press any key to continue . . .
```

Key in Y in the login register interface or after the register of account system will proceed to login interface.



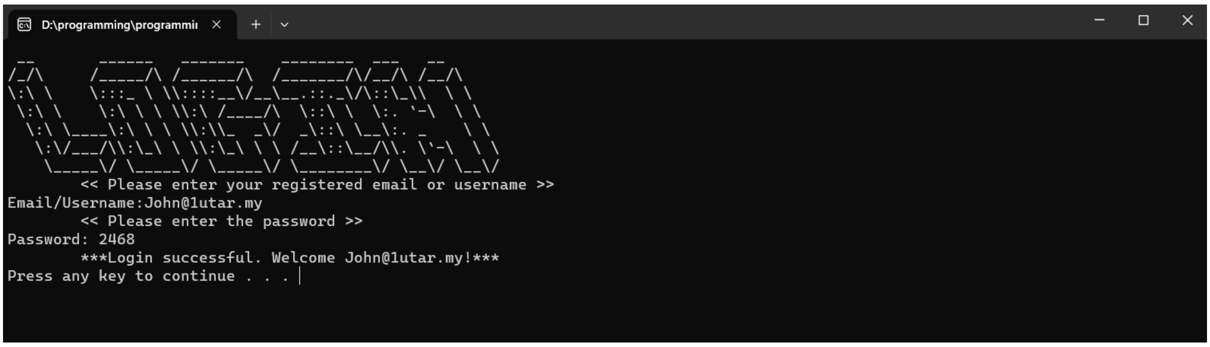
```
          ***Do You Have Account Before[Y/N]*** : Y
```



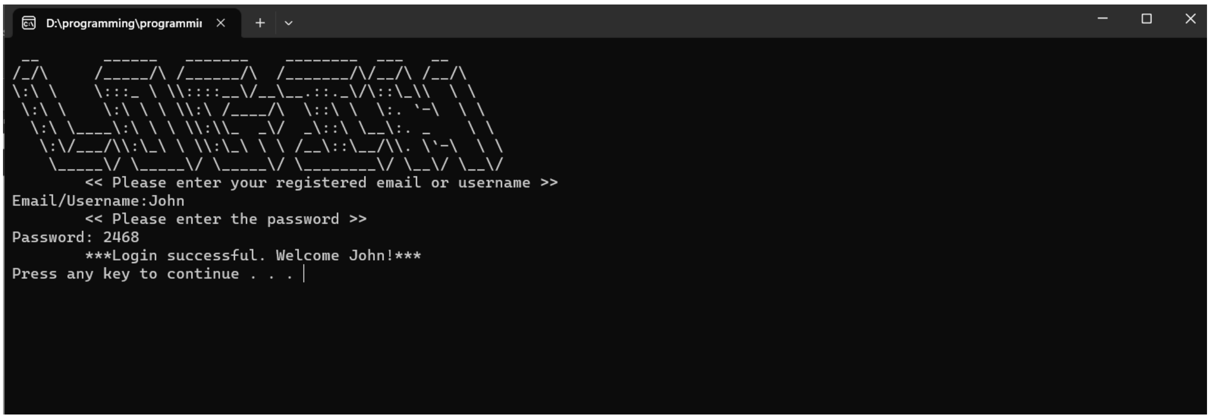
```
        << Please enter your registered email or username >>
Email/Username:
```

Login with the email / username that already registered.

After login system will proceed to User Interface

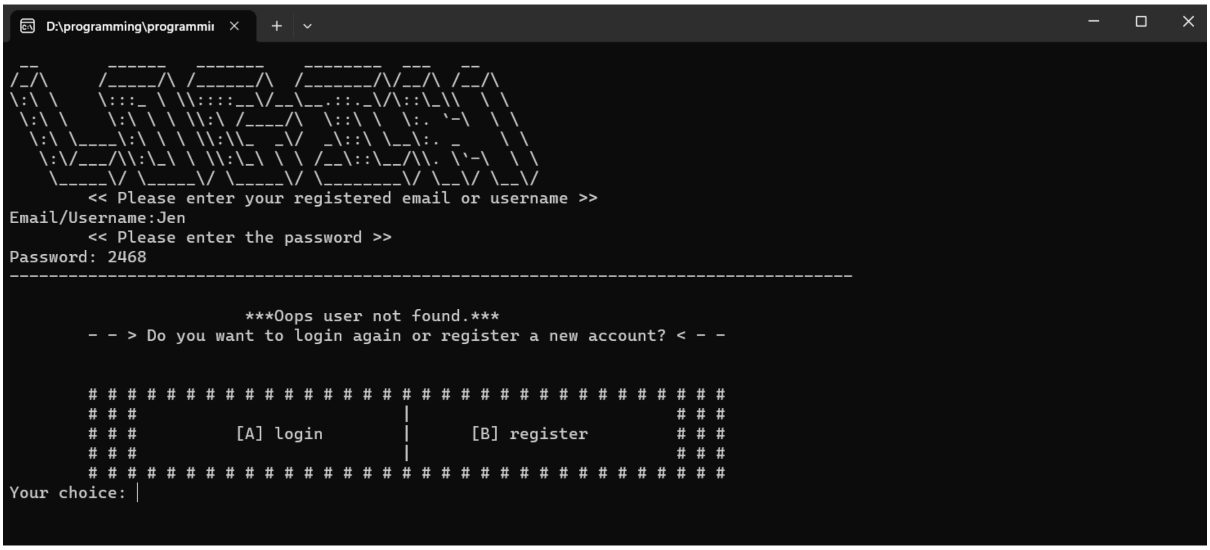


```
 __       ______   _______    ________  ___   __
/_/\     /_____/\ /______/\  /_______/\/__/\ /__/\
\:\ \    \:::_ \ \\::::__\/__\__.::._\/\::\_\\  \ \
 \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
  \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
   \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
    \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/
        << Please enter your registered email or username >>
Email/Username:John@1utar.my
        << Please enter the password >>
Password: 2468
        ***Login successful. Welcome John@1utar.my!***
Press any key to continue . . .
```



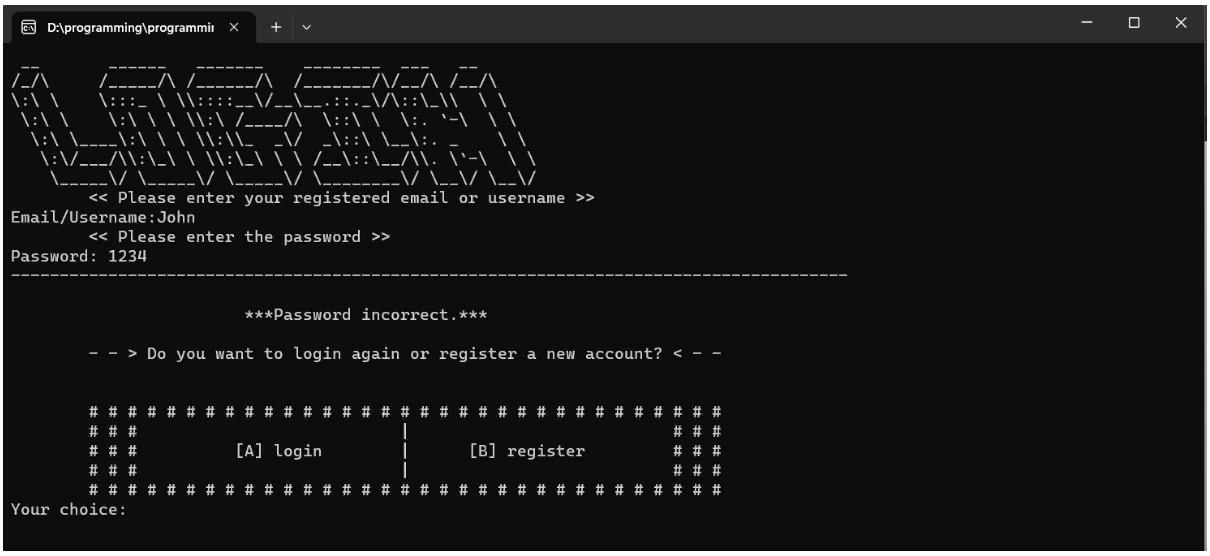
```
 __       ______   _______    ________  ___   __
/_/\     /_____/\ /______/\  /_______/\/__/\ /__/\
\:\ \    \:::_ \ \\::::__\/__\__.::._\/\::\_\\  \ \
 \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
  \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
   \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
    \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/
        << Please enter your registered email or username >>
Email/Username:John
        << Please enter the password >>
Password: 2468
        ***Login successful. Welcome John!***
Press any key to continue . . .
```

Key in the wrong username/email, system will tell user that user not found and let user to choose to proceed to login or register.



```
 __       ______   _______    ________  ___   __
/_/\     /_____/\ /______/\  /_______/\/__/\ /__/\
\:\ \    \:::_ \ \\::::__\/__\__.::._\/\::\_\\  \ \
 \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
  \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
   \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
    \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/
        << Please enter your registered email or username >>
Email/Username:Jen
        << Please enter the password >>
Password: 2468
--------------------------------------------------------------------------------------

                        ***Oops user not found.***
        - - > Do you want to login again or register a new account? < - -


        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
        # # #                     |                           # # #
        # # #        [A] login       |       [B] register         # # #
        # # #                     |                           # # #
        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
Your choice:
```

If user input wrong password, system will tell user that password incorrect and let user to choose to proceed to login or register.



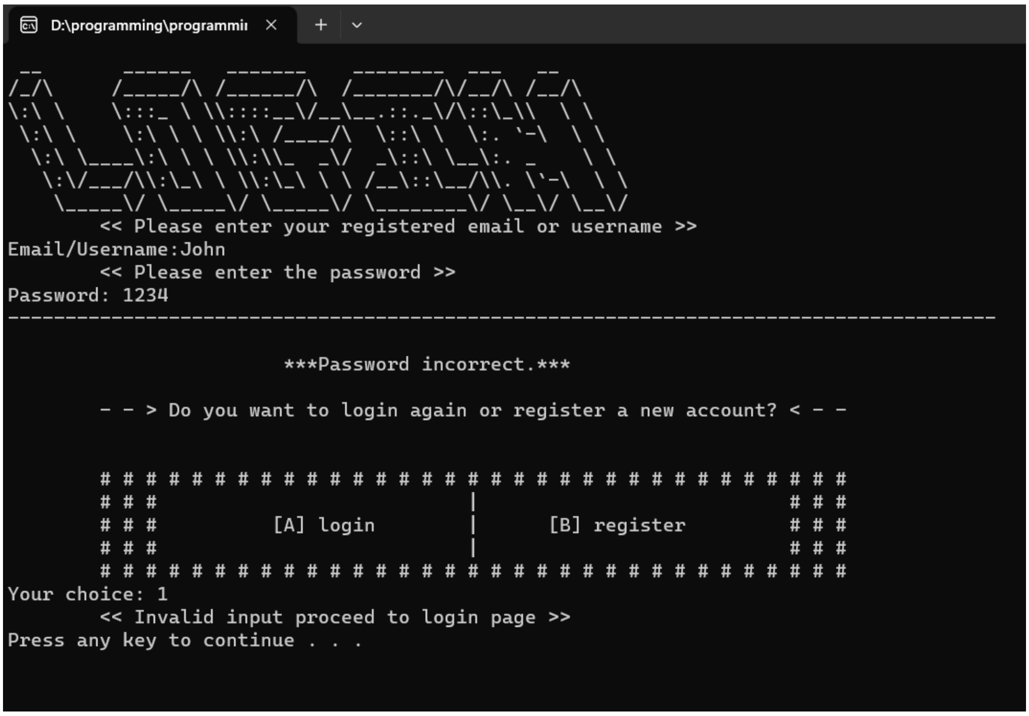
```
 __       ______   _______    ________  ___   __
/_/\     /_____/\ /______/\  /________/\/__/\ /__/\
\:\ \    \:::_ \ \\::::__\/__\__.::._\/\::\_\\  \ \
 \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
  \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
   \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
    \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/
        << Please enter your registered email or username >>
Email/Username:John
        << Please enter the password >>
Password: 1234
--------------------------------------------------------------------------------------

                        ***Password incorrect.***

        - - > Do you want to login again or register a new account? < - -


        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
        # # #                     |                           # # #
        # # #          [A] login         |       [B] register        # # #
        # # #                     |                           # # #
        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
Your choice:
```

Valid Input:

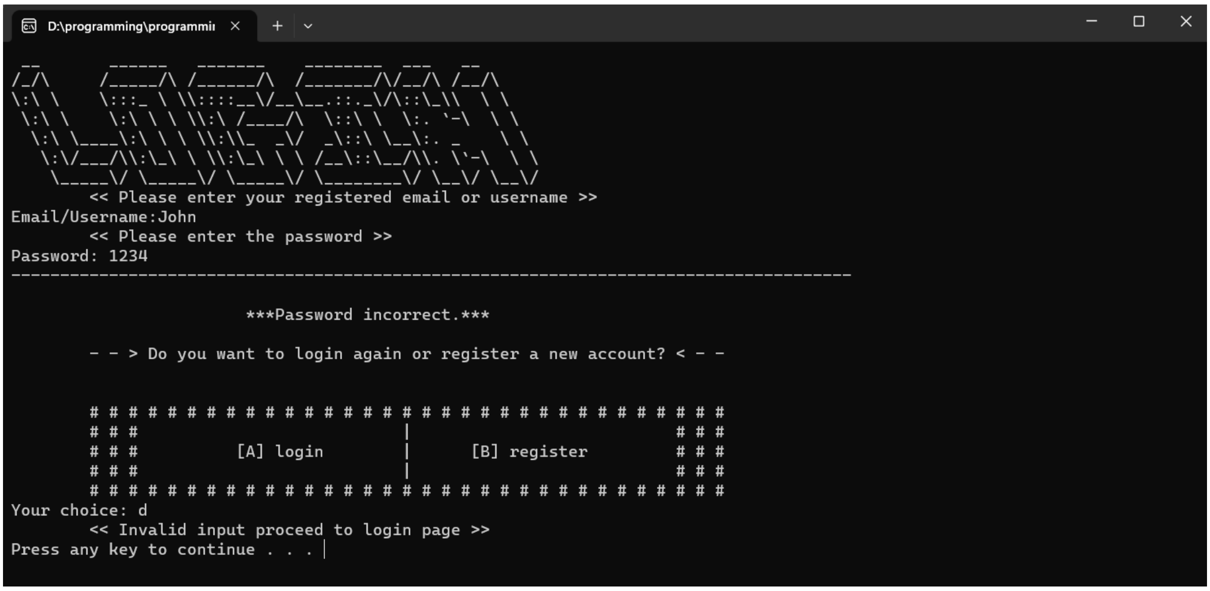
1. “A”, “a”, “B” and “b” to continue.

Invalid Input:

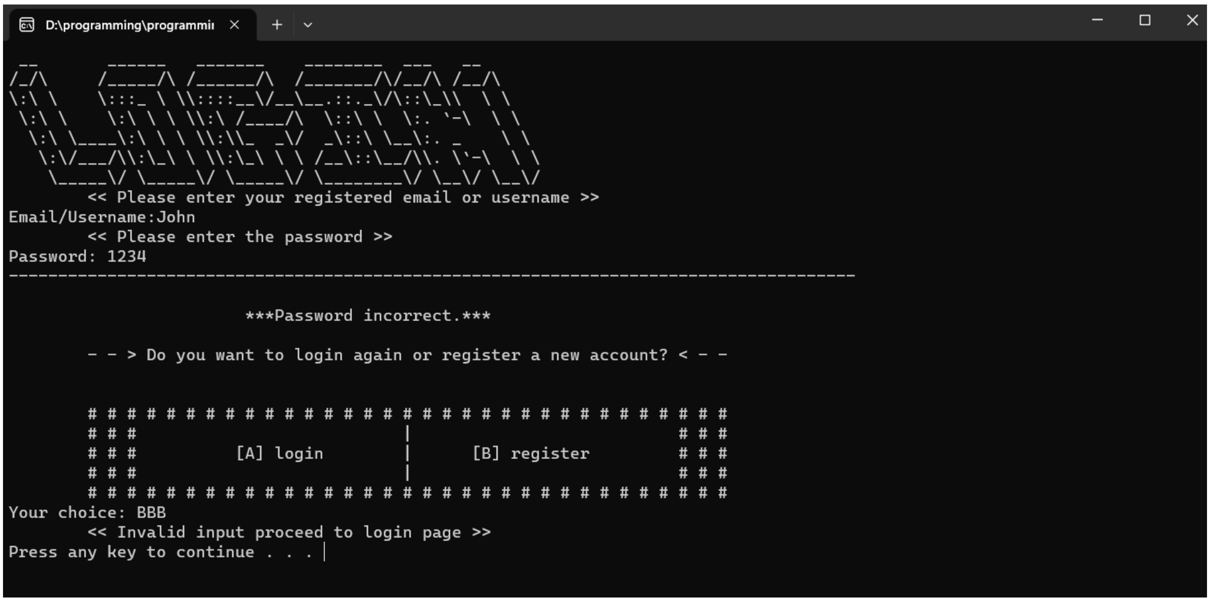
1. Number
2. Character other than “Y”, “y”, “N” and “n”
3. More than one character



```
 __       ______   _______    ________  ___   __
/_/\     /_____/\ /______/\  /________/\/__/\ /__/\
\:\ \    \:::_ \ \\::::__\/__\__.::._\/\::\_\\  \ \
 \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
  \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
   \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
    \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/
        << Please enter your registered email or username >>
Email/Username:John
        << Please enter the password >>
Password: 1234
--------------------------------------------------------------------------------------

                        ***Password incorrect.***

        - - > Do you want to login again or register a new account? < - -


        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
        # # #                     |                           # # #
        # # #          [A] login         |       [B] register        # # #
        # # #                     |                           # # #
        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
Your choice: 1
        << Invalid input proceed to login page >>
Press any key to continue . . .
```



```
 __       ______   _______    ________  ___   __
/_/\     /_____/\ /______/\  /_______/\/__/\ /__/\
\:\ \    \:::_ \ \\::::__\/__\__.::._\/\::\_\\  \ \
 \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
  \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
   \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
    \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/
        << Please enter your registered email or username >>
Email/Username:John
        << Please enter the password >>
Password: 1234
--------------------------------------------------------------------------------------

                        ***Password incorrect.***

        - - > Do you want to login again or register a new account? < - -


        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
        # # #                           |                           # # #
        # # #          [A] login        |      [B] register         # # #
        # # #                           |                           # # #
        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
Your choice: d
        << Invalid input proceed to login page >>
Press any key to continue . . .
```



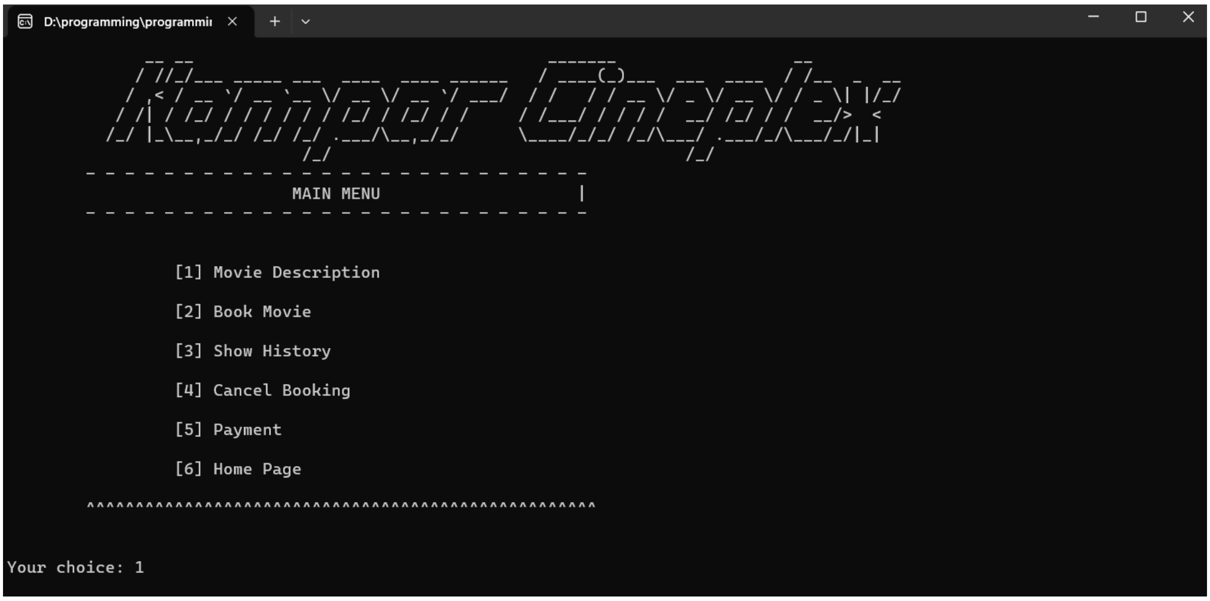
```
 __       ______   _______    ________  ___   __
/_/\     /_____/\ /______/\  /_______/\/__/\ /__/\
\:\ \    \:::_ \ \\::::__\/__\__.::._\/\::\_\\  \ \
 \:\ \    \:\ \ \ \\:\ /____/\  \::\ \  \:. `-\  \ \
  \:\ \____\:\ \ \ \\:\\_  _\/  _\::\ \__\:. _    \ \
   \:\/___/\\:\_\ \ \\:\_\ \ \ /__\::\__/\\. \`-\  \ \
    \_____\/ \_____\/ \_____\/ \________\/ \__\/ \__\/
        << Please enter your registered email or username >>
Email/Username:John
        << Please enter the password >>
Password: 1234
--------------------------------------------------------------------------------------

                        ***Password incorrect.***

        - - > Do you want to login again or register a new account? < - -


        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
        # # #                           |                           # # #
        # # #          [A] login        |      [B] register         # # #
        # # #                           |                           # # #
        # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
Your choice: BBB
        << Invalid input proceed to login page >>
Press any key to continue . . .
```

Test Cases for User Interface – function userUI()

Valid Input:

1. Integer within the range 1-6

System will proceed to respective modules based on user’s choice.



```
       __ __                                   _______                 __
      / //_/___ _____ ___  ____  ____ ______  / ____(_)___  ___  ____  / /__  _  __
     / ,< / __ `/ __ `__ \/ __ \/ __ `/ ___/ / /   / / __ \/ _ \/ __ \/ / _ \| |/_/
    / /| / /_/ / / / / / / /_/ / /_/ / /    / /___/ / / / /  __/ /_/ / /  __/>  <
   /_/ |_\__,_/_/ /_/ /_/ .___/\__,_/_/     \____/_/_/ /_/\___/ .___/_/\___/_/|_|
                       /_/                                   /_/
  - - - - - - - - - - - - - - - - - - - - - - - - - -
                     MAIN MENU                     |
  - - - - - - - - - - - - - - - - - - - - - - - - - -


           [1] Movie Description

           [2] Book Movie

           [3] Show History

           [4] Cancel Booking

           [5] Payment

           [6] Home Page

  ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^


Your choice: 1
```

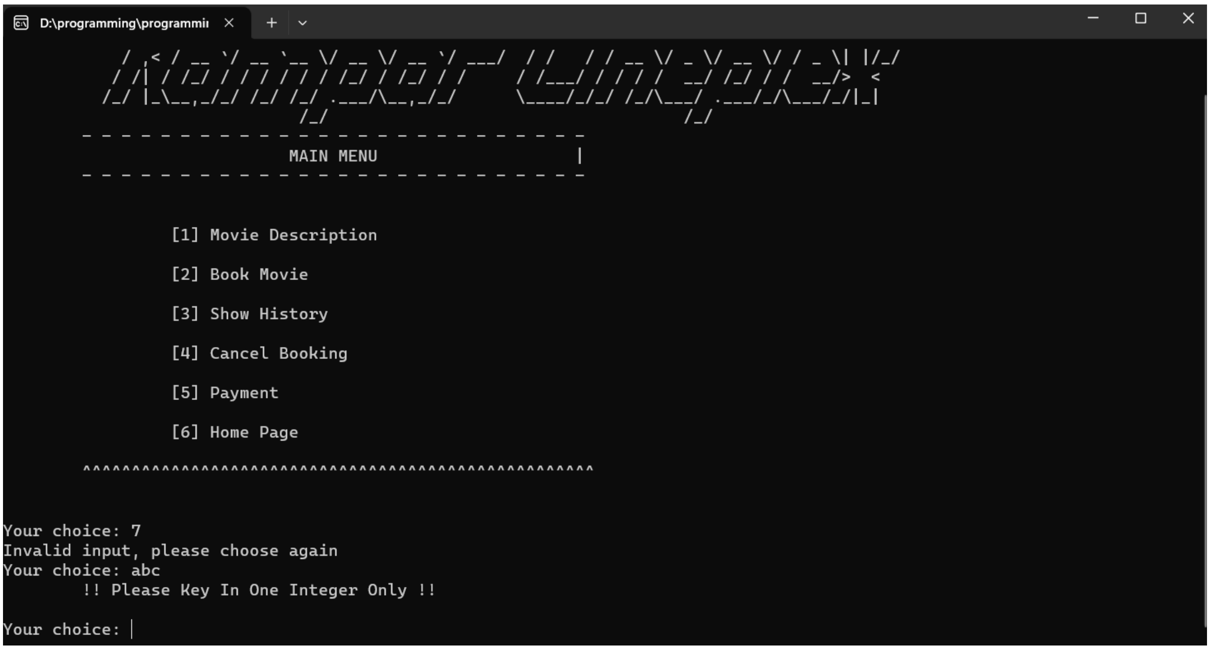
Invalid Input:

1. Integer not in the range 1-6.

System will display Invalid Input and ask user to choose again.

2. Input character.

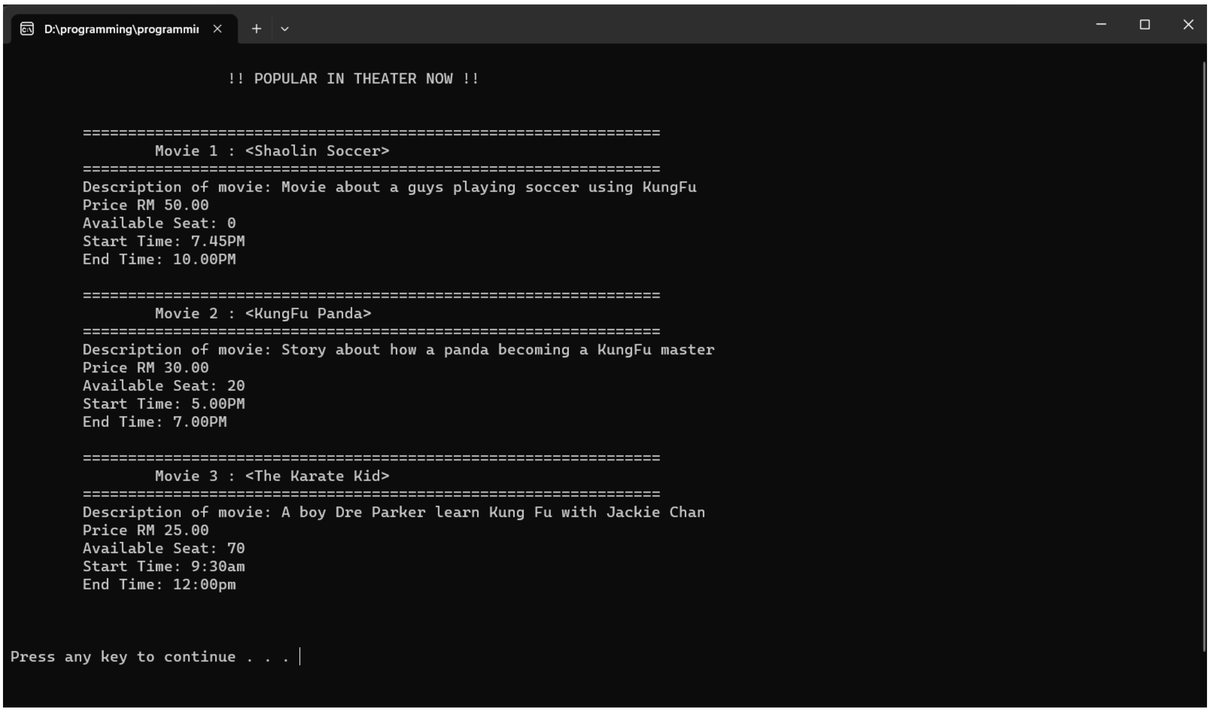
System will remind user to key in one integer only.



```
     / ,< / __ `/ __ `__ \/ __ \/ __ `/ ___/ / /   / / __ \/ _ \/ __ \/ / _ \| |/_/
    / /| / /_/ / / / / / / /_/ / /_/ / /    / /___/ / / / /  __/ /_/ / /  __/>  <
   /_/ |_\__,_/_/ /_/ /_/ .___/\__,_/_/     \____/_/_/ /_/\___/ .___/_/\___/_/|_|
                       /_/                                   /_/
  - - - - - - - - - - - - - - - - - - - - - - - - - -
                     MAIN MENU                     |
  - - - - - - - - - - - - - - - - - - - - - - - - - -


           [1] Movie Description

           [2] Book Movie

           [3] Show History

           [4] Cancel Booking

           [5] Payment

           [6] Home Page

  ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^


Your choice: 7
Invalid input, please choose again
Your choice: abc
        !! Please Key In One Integer Only !!

Your choice:
```

Test Cases for Show Movie Description Module – function showMovie()

All the movie details will show to user without any input.

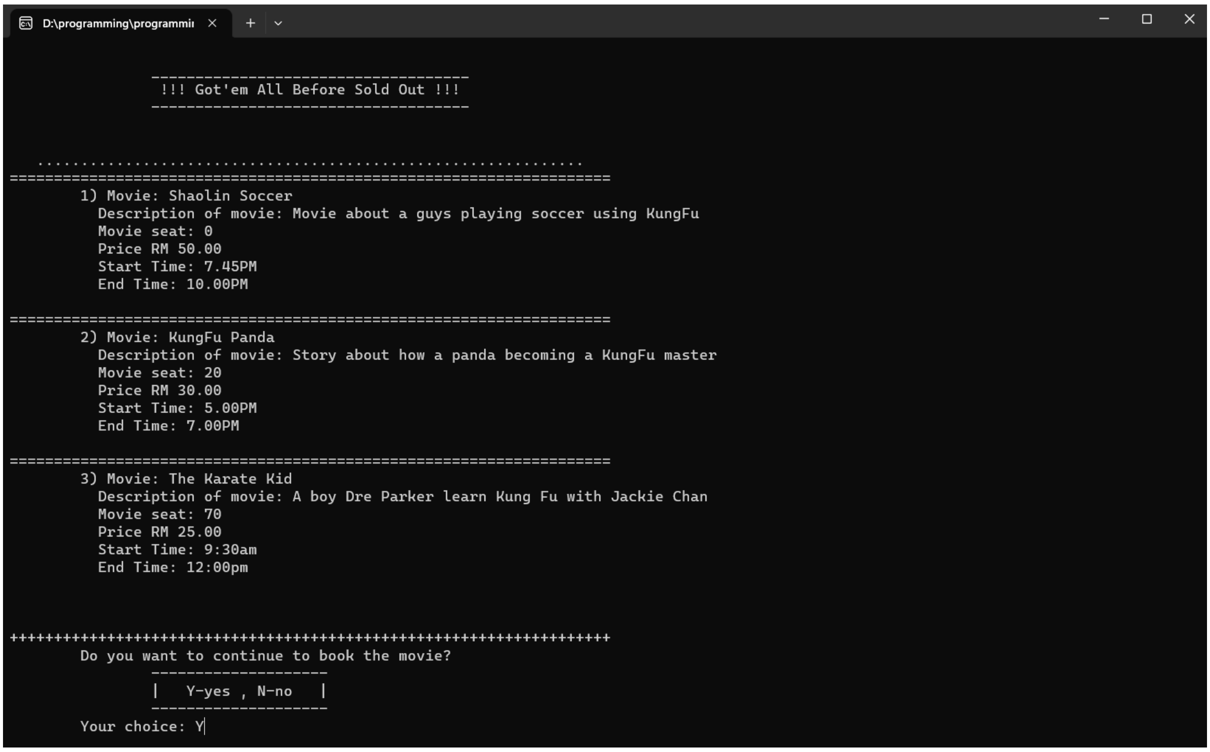


```
                        !! POPULAR IN THEATER NOW !!


        ================================================================
                Movie 1 : <Shaolin Soccer>
        ================================================================
        Description of movie: Movie about a guys playing soccer using KungFu
        Price RM 50.00
        Available Seat: 0
        Start Time: 7.45PM
        End Time: 10.00PM

        ================================================================
                Movie 2 : <KungFu Panda>
        ================================================================
        Description of movie: Story about how a panda becoming a KungFu master
        Price RM 30.00
        Available Seat: 20
        Start Time: 5.00PM
        End Time: 7.00PM

        ================================================================
                Movie 3 : <The Karate Kid>
        ================================================================
        Description of movie: A boy Dre Parker learn Kung Fu with Jackie Chan
        Price RM 25.00
        Available Seat: 70
        Start Time: 9:30am
        End Time: 12:00pm



Press any key to continue . . .
```

Test Cases for Book Movie Module – function bookMovie()

Valid Input:

1. “Y” or “y” to continue book movie.
2. “N” or “n” will return to user interface.

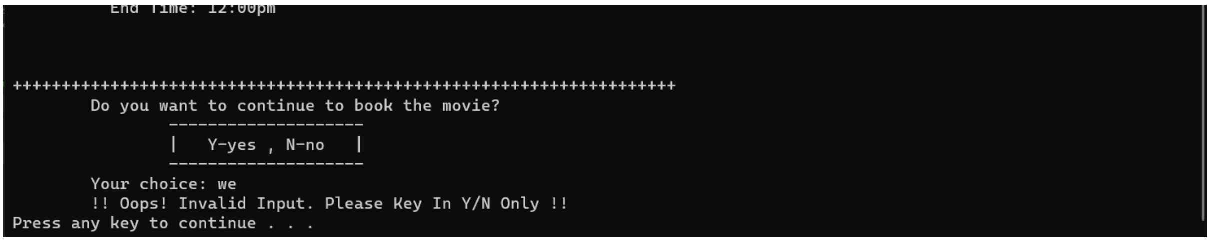


```
                ------------------------------------
                 !!! Got'em All Before Sold Out !!!
                ------------------------------------


   .............................................................
====================================================================
        1) Movie: Shaolin Soccer
          Description of movie: Movie about a guys playing soccer using KungFu
          Movie seat: 0
          Price RM 50.00
          Start Time: 7.45PM
          End Time: 10.00PM

====================================================================
        2) Movie: KungFu Panda
          Description of movie: Story about how a panda becoming a KungFu master
          Movie seat: 20
          Price RM 30.00
          Start Time: 5.00PM
          End Time: 7.00PM

====================================================================
        3) Movie: The Karate Kid
          Description of movie: A boy Dre Parker learn Kung Fu with Jackie Chan
          Movie seat: 70
          Price RM 25.00
          Start Time: 9:30am
          End Time: 12:00pm



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
        Do you want to continue to book the movie?
                --------------------
                |   Y-yes , N-no   |
                --------------------
        Your choice: Y
```

Invalid Input:

1. Input except uppercase and lowercase of character “Y” and “N”

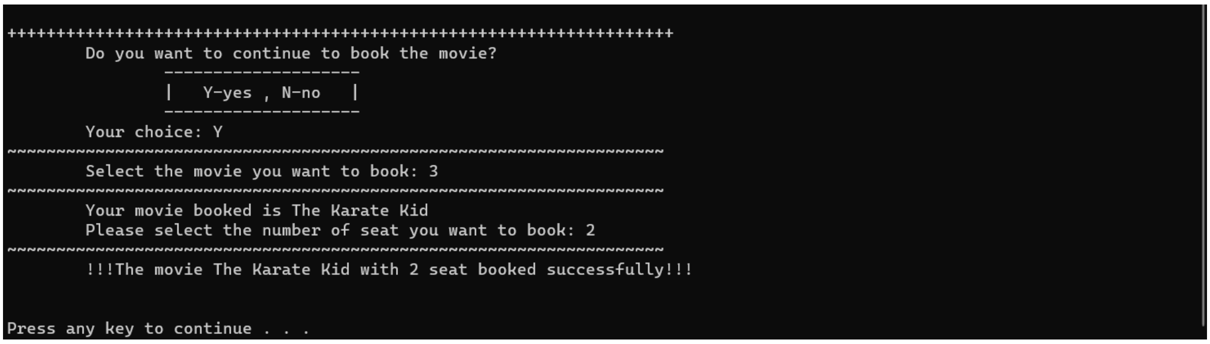
System will show invalid input and remind user to key in “Y” or “N” only. User will choose again.



```
          End Time: 12:00pm



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
        Do you want to continue to book the movie?
                --------------------
                |   Y-yes , N-no   |
                --------------------
        Your choice: we
        !! Oops! Invalid Input. Please Key In Y/N Only !!
Press any key to continue . . .
```

Valid Input:

To book movie, user need to key in movie number that want to book and key in the number of seat that user want to book.

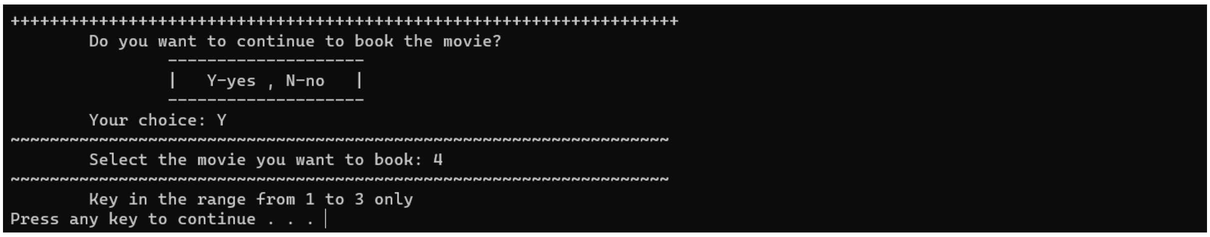


```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
        Do you want to continue to book the movie?
                --------------------
                |   Y-yes , N-no   |
                --------------------
        Your choice: Y
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Select the movie you want to book: 3
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Your movie booked is The Karate Kid
        Please select the number of seat you want to book: 2
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        !!!The movie The Karate Kid with 2 seat booked successfully!!!


Press any key to continue . . .
```

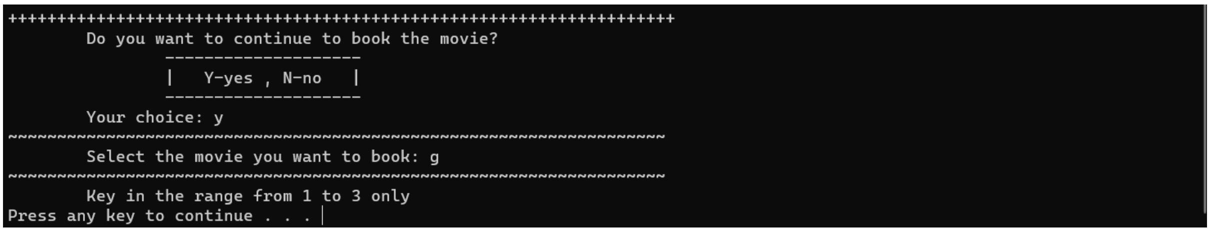
Invalid Input:

1. Number of movie key in out of the range of number of movies available.
2. Input alphabet

System will remind the user to give input in the range of number and then system will continue.

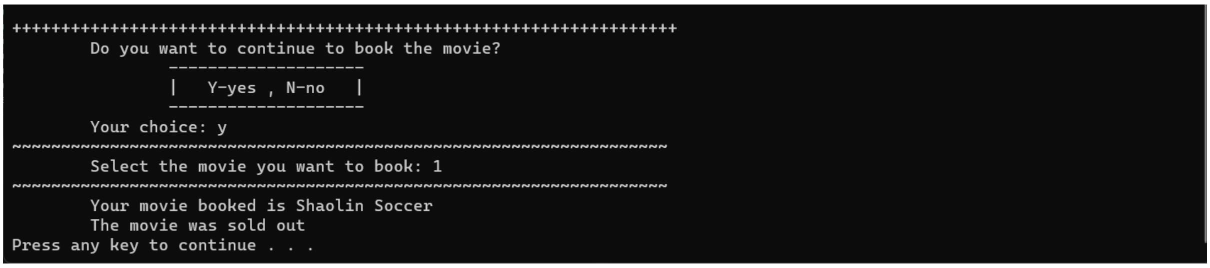


```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
        Do you want to continue to book the movie?
                --------------------
                |   Y-yes , N-no   |
                --------------------
        Your choice: Y
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Select the movie you want to book: 4
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Key in the range from 1 to 3 only
Press any key to continue . . .
```



```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
        Do you want to continue to book the movie?
                --------------------
                |   Y-yes , N-no   |
                --------------------
        Your choice: y
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Select the movie you want to book: g
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Key in the range from 1 to 3 only
Press any key to continue . . .
```

If user choose the movie that already sold out all the seat, system will tell user that movie was sold out



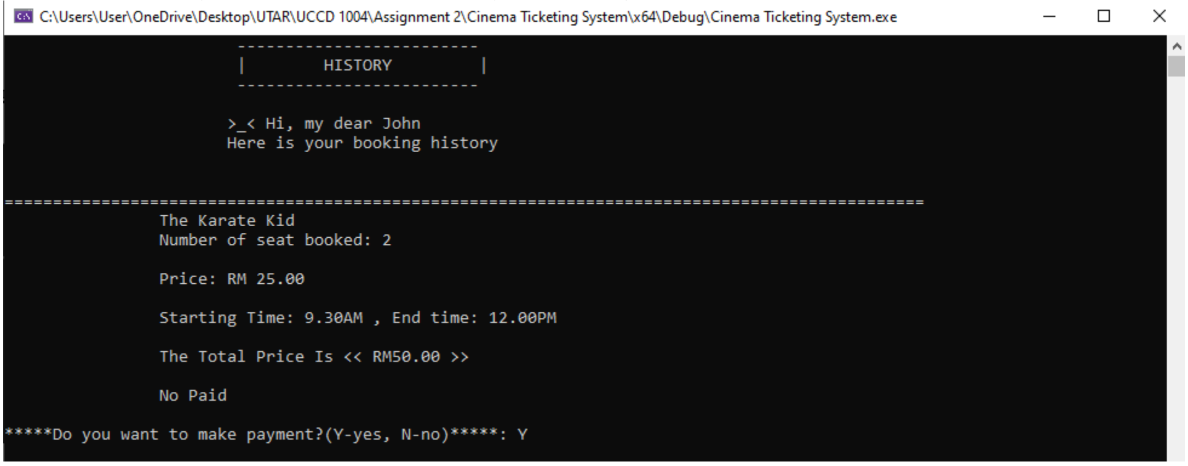
```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
        Do you want to continue to book the movie?
                --------------------
                |   Y-yes , N-no   |
                --------------------
        Your choice: y
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Select the movie you want to book: 1
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Your movie booked is Shaolin Soccer
        The movie was sold out
Press any key to continue . . .
```

Test Cases for Show History Module – function showHistory()

System will display user’s booking history and ask whether user want to make payment or not

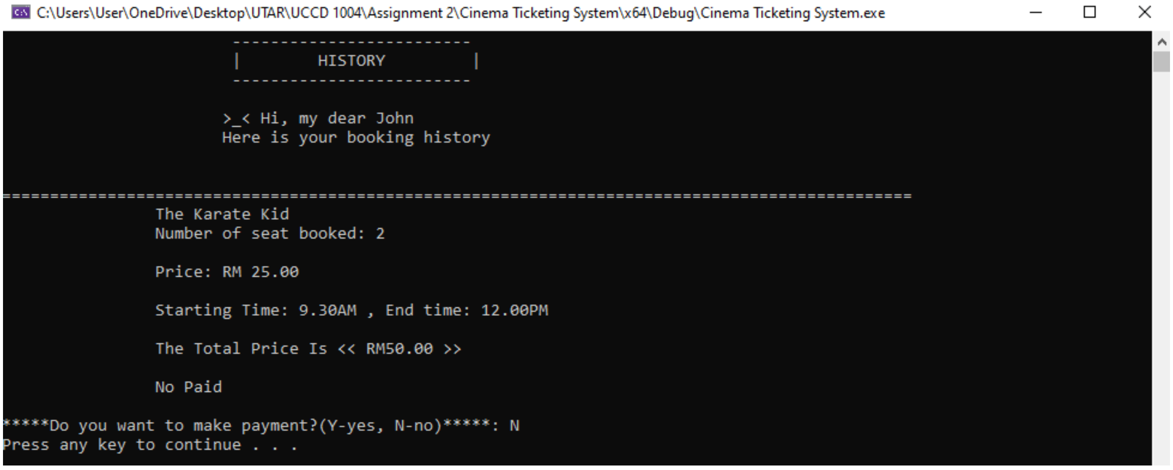
Valid Input:

1. “Y” or “y” to proceed to make payment – payment interface


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
                        -------------------------
                        |        HISTORY         |
                        -------------------------


                       >_< Hi, my dear John
                       Here is your booking history


===============================================================================================
                The Karate Kid
                Number of seat booked: 2

                Price: RM 25.00

                Starting Time: 9.30AM , End time: 12.00PM

                The Total Price Is << RM50.00 >>

                No Paid

*****Do you want to make payment?(Y-yes, N-no)*****: Y
```

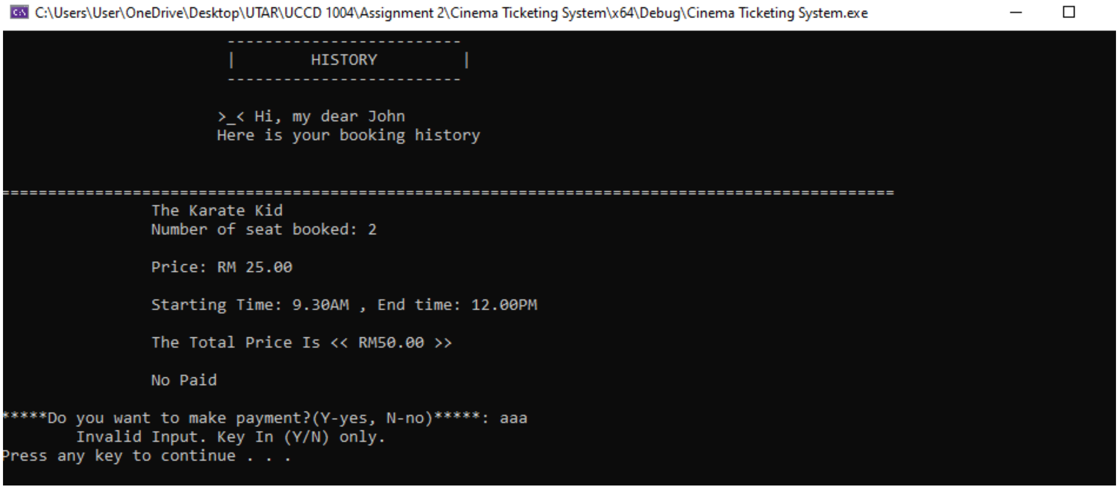
2. “N” or “n” to back to user interface.


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
                        -------------------------
                        |        HISTORY         |
                        -------------------------


                       >_< Hi, my dear John
                       Here is your booking history


===============================================================================================
                The Karate Kid
                Number of seat booked: 2

                Price: RM 25.00

                Starting Time: 9.30AM , End time: 12.00PM

                The Total Price Is << RM50.00 >>

                No Paid

*****Do you want to make payment?(Y-yes, N-no)*****: N
Press any key to continue . . .
```

Invalid Input :

1. Any input rather than “Y”, “y” , “N” and “n” will display Invalid Input and prompt user to enter again.

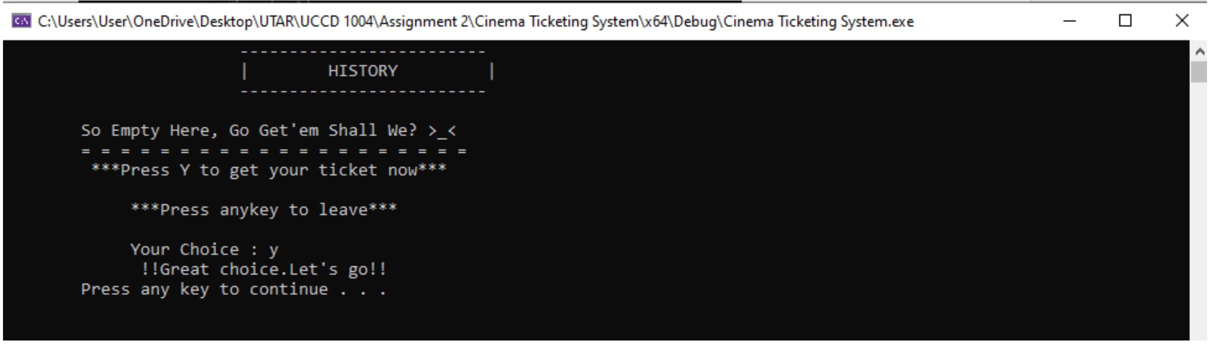

C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
                        -------------------------
                        |        HISTORY         |
                        -------------------------


                       >_< Hi, my dear John
                       Here is your booking history


===============================================================================================
                The Karate Kid
                Number of seat booked: 2

                Price: RM 25.00

                Starting Time: 9.30AM , End time: 12.00PM

                The Total Price Is << RM50.00 >>

                No Paid

*****Do you want to make payment?(Y-yes, N-no)*****: aaa
        Invalid Input. Key In (Y/N) only.
Press any key to continue . . .
```

System will show Empty if user does not book any movie.

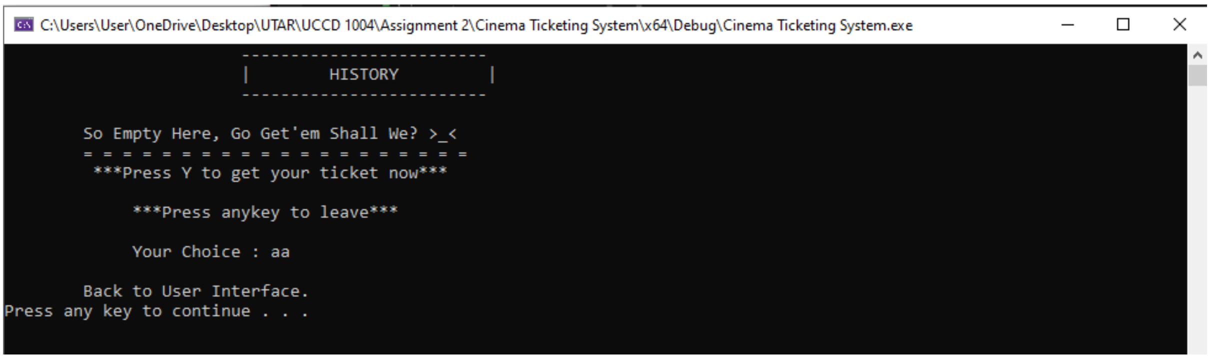
Valid Input:

1. “Y” or “y” to proceed to book movie.
2. Any other input except “Y” and “y” will back to user interface.



C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
                        -------------------------
                        |        HISTORY         |
                        -------------------------


        So Empty Here, Go Get'em Shall We? >_<
        = = = = = = = = = = = = = = = = = = = =
         ***Press Y to get your ticket now***

             ***Press anykey to leave***

             Your Choice : y
              !!Great choice.Let's go!!
        Press any key to continue . . .
```



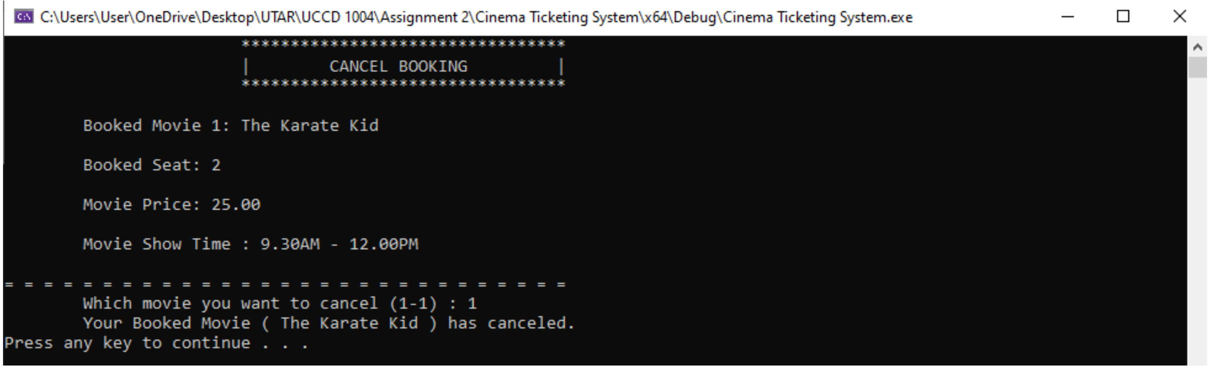
C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
                        -------------------------
                        |        HISTORY         |
                        -------------------------


        So Empty Here, Go Get'em Shall We? >_<
        = = = = = = = = = = = = = = = = = = = =
         ***Press Y to get your ticket now***

             ***Press anykey to leave***

             Your Choice : aa

        Back to User Interface.
Press any key to continue . . .
```

Test Cases for Cancel Booking Module – function cancelBooking()

Valid Input:

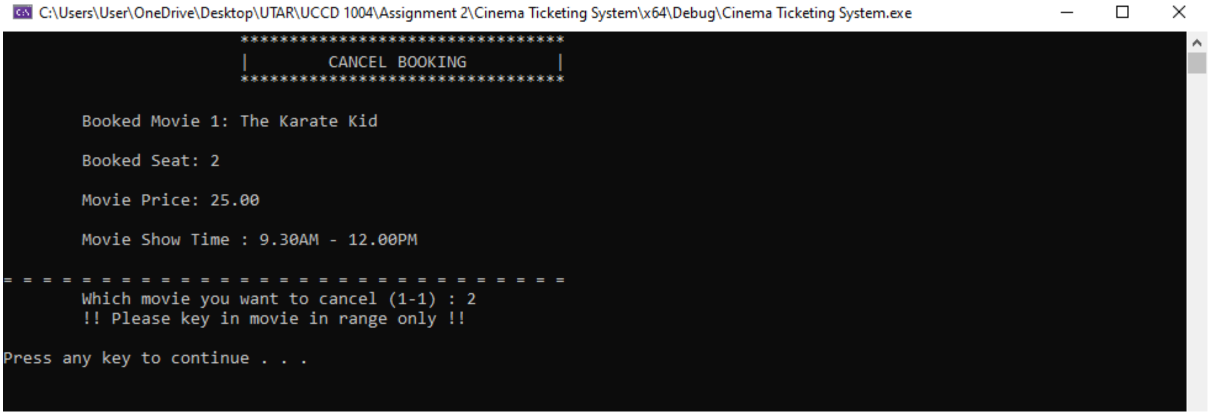
1. Cancel the booking in range given.


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
                        *********************************
                        |        CANCEL BOOKING         |
                        *********************************

        Booked Movie 1: The Karate Kid

        Booked Seat: 2

        Movie Price: 25.00

        Movie Show Time : 9.30AM - 12.00PM

= = = = = = = = = = = = = = = = = = = = = = = = = = = = =
        Which movie you want to cancel (1-1) : 1
        Your Booked Movie ( The Karate Kid ) has canceled.
Press any key to continue . . .
```

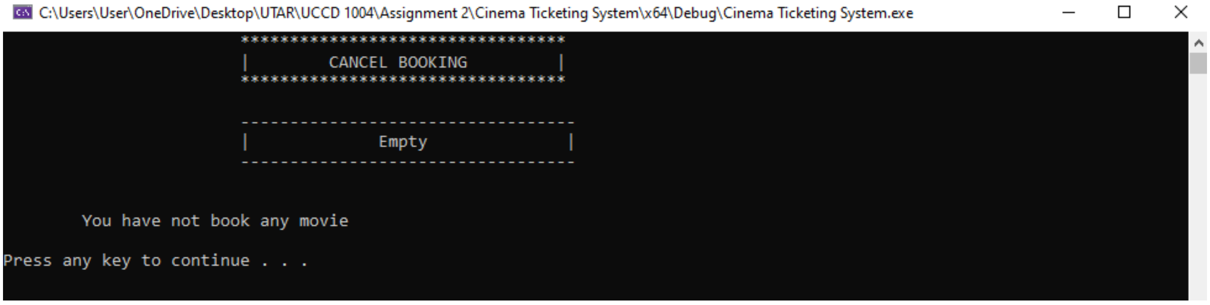
Invalid Input:

1. Cancel the booking out of the range given.


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
                        *********************************
                        |        CANCEL BOOKING         |
                        *********************************

        Booked Movie 1: The Karate Kid

        Booked Seat: 2

        Movie Price: 25.00

        Movie Show Time : 9.30AM - 12.00PM

= = = = = = = = = = = = = = = = = = = = = = = = = = = = =
        Which movie you want to cancel (1-1) : 2
        !! Please key in movie in range only !!

Press any key to continue . . .
```

System will display “Empty” message if there was booking without any input.

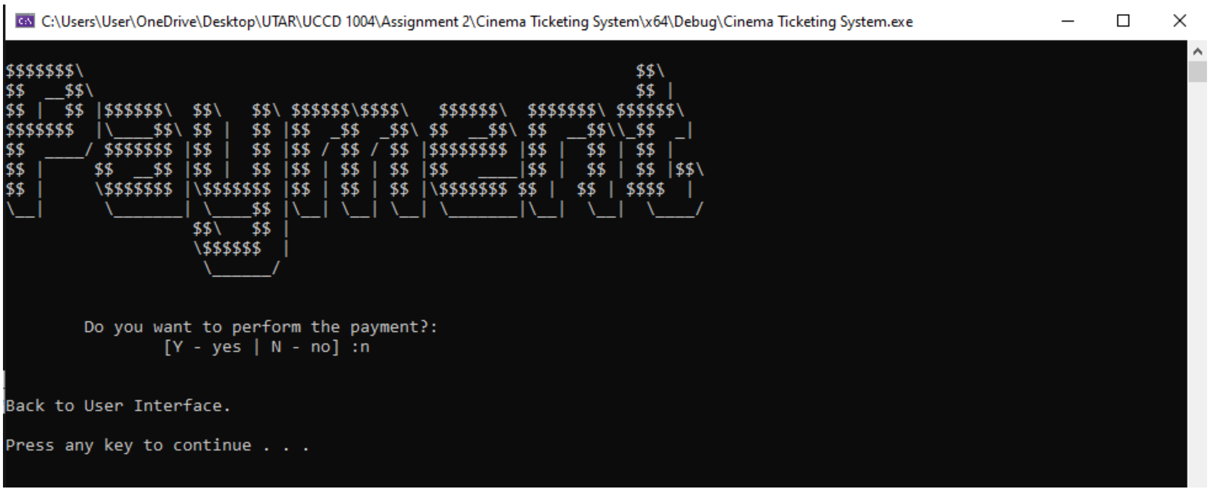

C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
                        *********************************
                        |        CANCEL BOOKING         |
                        *********************************

                        ----------------------------------
                        |             Empty              |
                        ----------------------------------


        You have not book any movie

Press any key to continue . . .
```

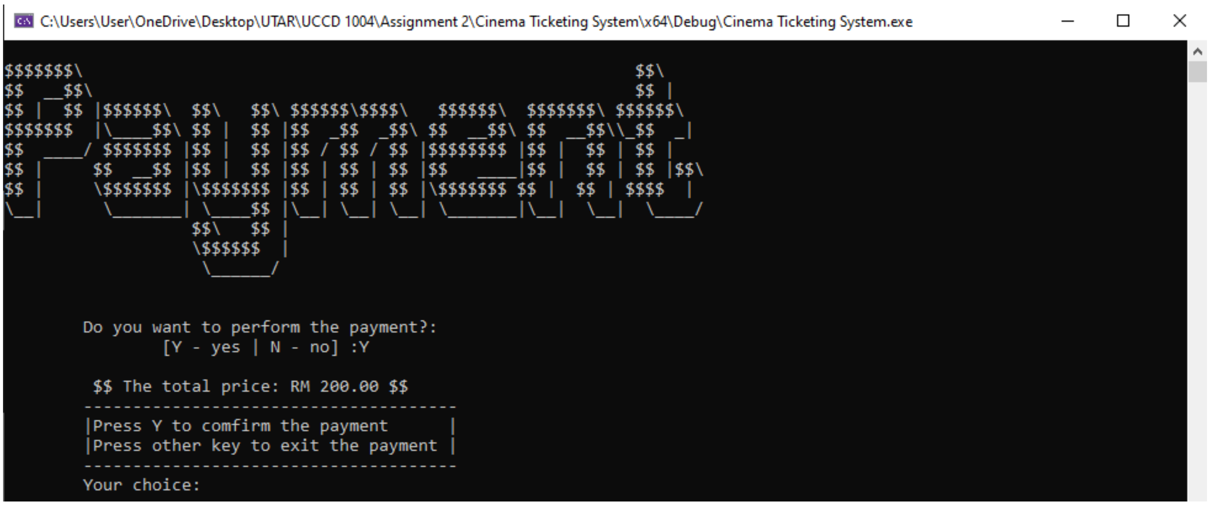
Test Cases for Payment Module – function paybill()

Valid Input:

1. “Y” or “y” to make payment.
2. “N” or “n” will back to user interface.


C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
$$$$$$$\                                                        $$\
$$  __$$\                                                       $$ |
$$ |  $$ |$$$$$$\  $$\   $$\ $$$$$$\$$$$\   $$$$$$\  $$$$$$$\ $$$$$$\
$$$$$$$  |\____$$\ $$ |  $$ |$$  _$$  _$$\ $$  __$$\ $$  __$$\\_$$  _|
$$  ____/ $$$$$$$ |$$ |  $$ |$$ / $$ / $$ |$$$$$$$$ |$$ |  $$ | $$ |
$$ |     $$  __$$ |$$ |  $$ |$$ | $$ | $$ |$$   ____|$$ |  $$ | $$ |$$\
$$ |     \$$$$$$$ |\$$$$$$$ |$$ | $$ | $$ |\$$$$$$$ $$ |  $$ | $$$$  |
\__|      \_______| \____$$ |\__| \__| \__| \_______|\__|  \__|  \____/
                   $$\   $$ |
                   \$$$$$$  |
                    \______/


        Do you want to perform the payment?:
                [Y - yes | N - no] :n


Back to User Interface.

Press any key to continue . . .
```

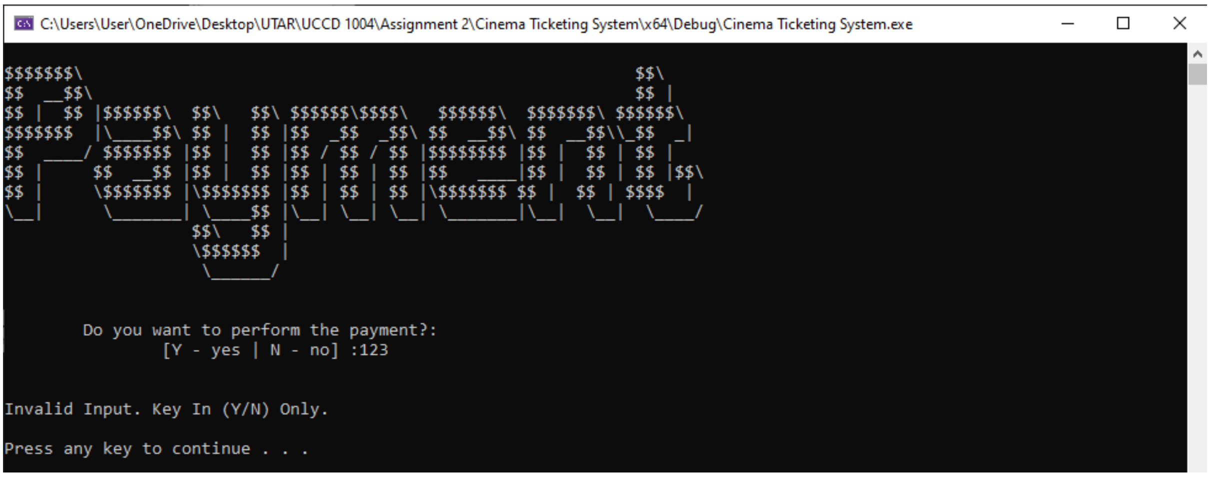

C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
$$$$$$$\                                                        $$\
$$  __$$\                                                       $$ |
$$ |  $$ |$$$$$$\  $$\   $$\ $$$$$$\$$$$\   $$$$$$\  $$$$$$$\ $$$$$$\
$$$$$$$  |\____$$\ $$ |  $$ |$$  _$$  _$$\ $$  __$$\ $$  __$$\\_$$  _|
$$  ____/ $$$$$$$ |$$ |  $$ |$$ / $$ / $$ |$$$$$$$$ |$$ |  $$ | $$ |
$$ |     $$  __$$ |$$ |  $$ |$$ | $$ | $$ |$$   ____|$$ |  $$ | $$ |$$\
$$ |     \$$$$$$$ |\$$$$$$$ |$$ | $$ | $$ |\$$$$$$$ $$ |  $$ | $$$$  |
\__|      \_______| \____$$ |\__| \__| \__| \_______|\__|  \__|  \____/
                   $$\   $$ |
                   \$$$$$$  |
                    \______/


        Do you want to perform the payment?:
                [Y - yes | N - no] :Y

         $$ The total price: RM 200.00 $$
        --------------------------------------
        |Press Y to comfirm the payment      |
        |Press other key to exit the payment |
        --------------------------------------
        Your choice:
```

Invalid Input:

1. Input except uppercase or lowercase of “Y” and “N”

System will display Invalid Input and prompt user to key in again.

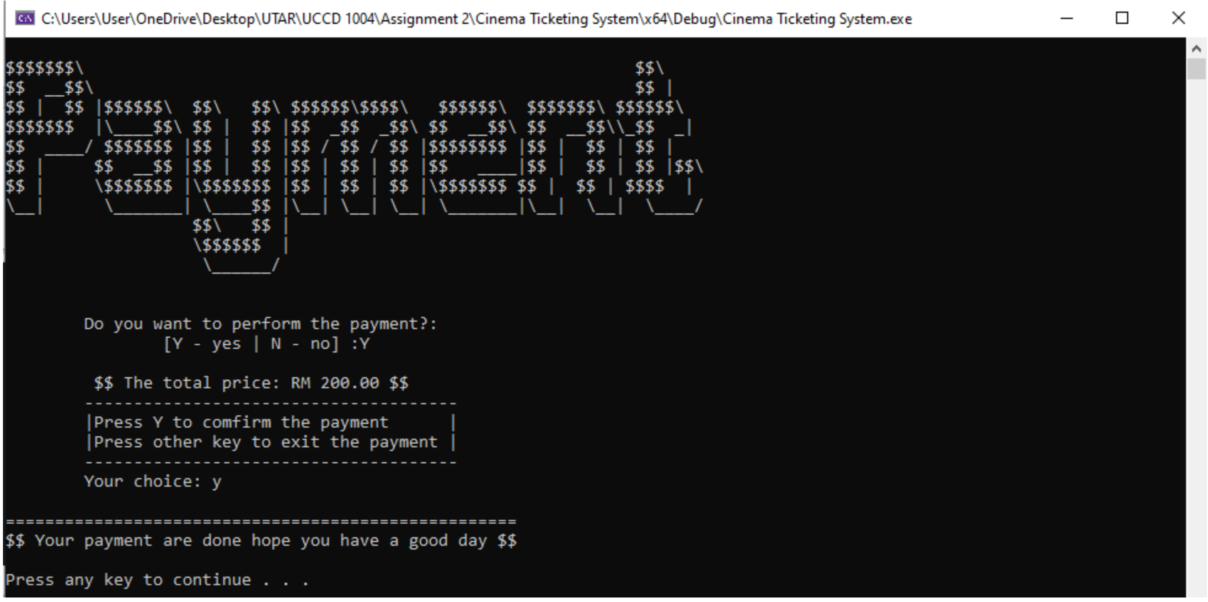

C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
$$$$$$$\                                                        $$\
$$  __$$\                                                       $$ |
$$ |  $$ |$$$$$$\  $$\   $$\ $$$$$$\$$$$\   $$$$$$\  $$$$$$$\ $$$$$$\
$$$$$$$  |\____$$\ $$ |  $$ |$$  _$$  _$$\ $$  __$$\ $$  __$$\\_$$  _|
$$  ____/ $$$$$$$ |$$ |  $$ |$$ / $$ / $$ |$$$$$$$$ |$$ |  $$ | $$ |
$$ |     $$  __$$ |$$ |  $$ |$$ | $$ | $$ |$$   ____|$$ |  $$ | $$ |$$\
$$ |     \$$$$$$$ |\$$$$$$$ |$$ | $$ | $$ |\$$$$$$$ $$ |  $$ | $$$$  |
\__|      \_______| \____$$ |\__| \__| \__| \_______|\__|  \__|  \____/
                   $$\   $$ |
                   \$$$$$$  |
                    \______/


        Do you want to perform the payment?:
                [Y - yes | N - no] :123


Invalid Input. Key In (Y/N) Only.

Press any key to continue . . .
```

System will ask user to confirm the payment after that.

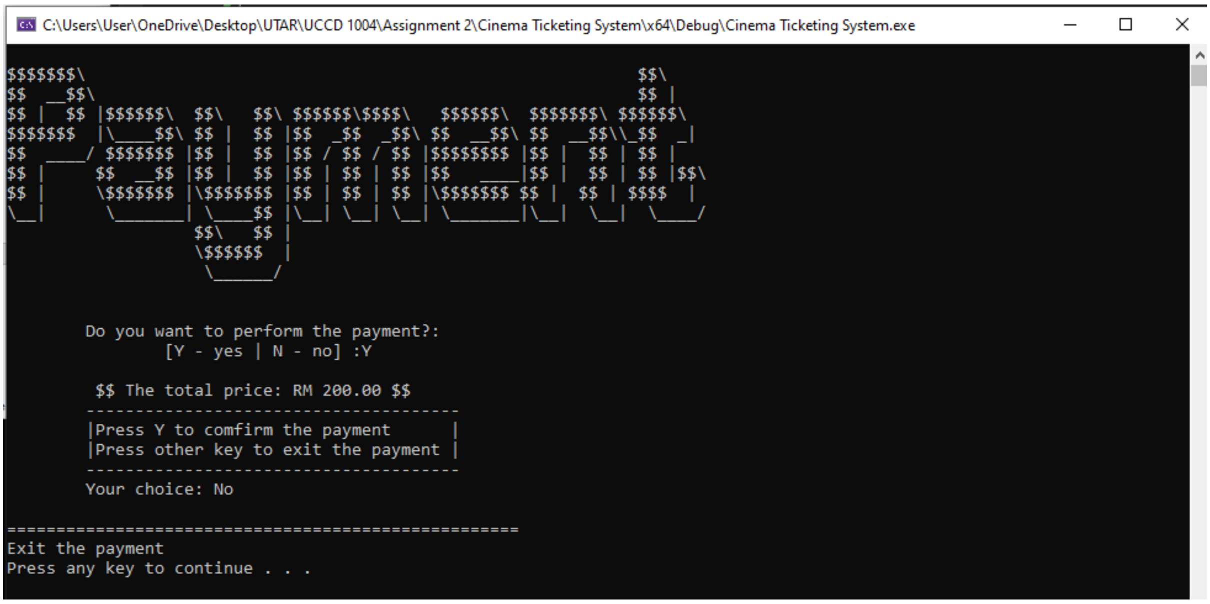
Valid Input:

1. “Y” or “y” to confirm the payment.
2. Any other input except “Y” or “y” to exit payment.



C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
$$$$$$$\                                                         $$\
$$  __$$\                                                        $$ |
$$ |  $$ |$$$$$$\  $$\   $$\ $$$$$$\$$$$\   $$$$$$\  $$$$$$$\ $$$$$$\
$$$$$$$  |\____$$\ $$ |  $$ |$$  _$$  _$$\ $$  __$$\ $$  __$$\\_$$  _|
$$  ____/ $$$$$$$ |$$ |  $$ |$$ / $$ / $$ |$$$$$$$$ |$$ |  $$ | $$ |
$$ |     $$  __$$ |$$ |  $$ |$$ | $$ | $$ |$$   ____|$$ |  $$ | $$ |$$\
$$ |     \$$$$$$$ |\$$$$$$$ |$$ | $$ | $$ |\$$$$$$$  $$ |  $$ | $$$$  |
\__|      \_______| \____$$ |\__| \__| \__| \_______|\__|  \__|  \____/
                   $$\   $$ |
                   \$$$$$$  |
                    \______/


        Do you want to perform the payment?:
                [Y - yes | N - no] :Y

         $$ The total price: RM 200.00 $$
        --------------------------------------
        |Press Y to comfirm the payment      |
        |Press other key to exit the payment |
        --------------------------------------
        Your choice: y

====================================================
$$ Your payment are done hope you have a good day $$

Press any key to continue . . .
```



C:\Users\User\OneDrive\Desktop\UTAR\UCCD 1004\Assignment 2\Cinema Ticketing System\x64\Debug\Cinema Ticketing System.exe

```
$$$$$$$\                                                         $$\
$$  __$$\                                                        $$ |
$$ |  $$ |$$$$$$\  $$\   $$\ $$$$$$\$$$$\   $$$$$$\  $$$$$$$\ $$$$$$\
$$$$$$$  |\____$$\ $$ |  $$ |$$  _$$  _$$\ $$  __$$\ $$  __$$\\_$$  _|
$$  ____/ $$$$$$$ |$$ |  $$ |$$ / $$ / $$ |$$$$$$$$ |$$ |  $$ | $$ |
$$ |     $$  __$$ |$$ |  $$ |$$ | $$ | $$ |$$   ____|$$ |  $$ | $$ |$$\
$$ |     \$$$$$$$ |\$$$$$$$ |$$ | $$ | $$ |\$$$$$$$  $$ |  $$ | $$$$  |
\__|      \_______| \____$$ |\__| \__| \__| \_______|\__|  \__|  \____/
                   $$\   $$ |
                   \$$$$$$  |
                    \______/


        Do you want to perform the payment?:
                [Y - yes | N - no] :Y

         $$ The total price: RM 200.00 $$
        --------------------------------------
        |Press Y to comfirm the payment      |
        |Press other key to exit the payment |
        --------------------------------------
        Your choice: No

====================================================
Exit the payment
Press any key to continue . . .
```

Source Code

```
#include<iostream>

#include<string>

#include<iomanip>

#include<fstream>

#include <cstring>

#include <cctype>


using namespace std;


void userUI();

void loginadmin();

void admin();

void home();

void mainpage();


// admin interf func

void addMovie();

void editMovie();

void deleteMovie();

void ViewTrans();

void adminShowMovie();


//login/register func

void LoginResgister();

void Register();

void Login();

bool userExist(string email_1);


// user interf func

void showMovie();

void bookMovie();

void showHistory();
void cancelBooking();
void paybill();

// pls call when u want to use array
void storeInfoInArray(int&);
void storeBookedInfoInArray(int&);



// store info in array
// every one can use the array
string MovieTitle[100], MovieDesc[100];
double MoviePrice[100] = { 0 };
int MovieSeat[100];
string startTime[100], endTime[100];
short i = 0;
string title, describe;
double price;
int seat;
string sTime, eTime;
double totalPrice = 0;

// booked item
int totalBookedMovie = 0;
string btitle;
int bSeat;
double bprice;
string bStartTime, bEndTime;
string bMovietitle[100];
string bMovieStartTime[100], bMovieEndTime[100];
int bNumMovieSeat[100];
double bMoviePrice[100];
string paidStatus = "No Paid";
// Global Variable
```

```
int totalMovie = 0;


// user info
string username;


// main function
int main()
{
      cout << fixed << setprecision(2);
      mainpage();
      home();
}


void mainpage()
{
      cout << "\t\t[] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^
[] ^ [] ^ [] ^ [] ^ [] ^ [] ^ []^" << endl;
      cout << "\t\t ^      __ __
_______                  __            []" << endl;
      cout << "\t\t[]     / //_/___ _____ ___  ____  ____ ______   /
____(_)___  ___  ____  / /__  _  __  ^" << endl;
      cout << "\t\t ^    / ,< / __ `/ __ `__ \\/ __ \\/ __ `/ ___/  / /
/ / __ \\/ _ \\/ __ \\/ / _ \\| |/_/  []" << endl;
      cout << "\t\t[]   / /| / /_/ / / / / / / /_/ / /_/ / /     / /___/ /
/ / /  __/ /_/ / /  __/>  <    ^" << endl;
      cout << "\t\t ^  /_/ |_\\__,_/_/ /_/ /_/ .___/\\__,_/_/
\\____/_/_/ /_/\\___/ .___/_/\\___/_/|_|    [] " << endl;
      cout << "\t\t[]                      /_/
/_/                     ^" << endl;
      cout << "\t\t ^
[]" << endl;
      cout << "\t\t[]\t\t\t\t\t\t\t\t\t\t       ^" << endl;
      cout << "\t\t ^\t\t\t\t\t\t\t\t\t\t       []" << endl;
      cout << "\t\t[]      __ __ __   ______   __       ______   ______
___ __ __   ______               ^" << endl;
      cout << "\t\t ^     /_//_//_/\\ /_____/\\ /_/\\     /_____/\\
/_____/\\ /__//_//_/\\ /_____/\\             [] " << endl;
```

```
      cout << "\t\t[]     \\:\\\\:\\\\:\\ \\\\::::_\\/_\\:\\ \\
\\:::__\\/ \\:::_ \\ \\\\::\\| \\| \\ \\\\::::_\\/_            ^" << endl;
      cout << "\t\t ^      \\:\\\\:\\\\:\\ \\\\:\\/___/\\\\:\\ \\    \\:\\
\\  __\\:\\ \\ \\ \\\\:.      \\ \\\\:\\/___/\\       []" << endl;
      cout << "\t\t[]       \\:\\\\:\\\\:\\ \\\\::___\\/_\\:\\ \\____\\:\\
\\/_/\\\\:\\ \\ \\ \\\\:.\\-/\\  \\ \\\\::___\\/_           ^" << endl;
      cout << "\t\t ^        \\:\\\\:\\\\:\\
\\\\:\\____/\\\\:\\/___/\\\\:\\_\\ \\ \\\\:\\_\\ \\ \\\\. \\  \\  \\
\\\\:\\____/\\         []" << endl;
      cout << "\t\t[]         \\_______\\/ \\_____\\/ \\_____\\/
\\_____\\/ \\_____\\/ \\__\\/ \\__\\/ \\_____\\/            ^" << endl;
      cout << "\t\t ^\t\t\t\t\t\t\t\t\t\t       []" << endl;
      cout << "\t\t[]\t\t\t\t\t\t\t\t\t\t       ^" << endl;
      cout << "\t\t ^\t\t\t\t\t\t\t\t\t\t       []" << endl;
      cout << "\t\t[]\t\t\t\t\t\t\t\t\t\t       ^" << endl;
      cout << "\t\t ^\t\t\t\t\t\t\t\t\t\t       []" << endl;
      cout << "\t\t[] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^ [] ^
[] ^ [] ^ [] ^ [] ^ [] ^ [] ^[] ^" << endl << endl << endl << endl;
      cout << "\t\t    ";
      system("pause");
}


void home()
{
      system("cls");
      cout << " _______         _                  ____
_                          _" << endl;
      cout << "(_______) _     (_)_   ____  _     (____)
____           (_)                   ____ (_) _            " << endl;
      cout << "   (_)   (_)__  (___) (____)(_)__ (_)__    ____    ___
(____)      ___ (_)__    ___    ___  (____) _ (_)__    ____ " << endl;
      cout << "   (_)   (____) (_)  (_)_(_)(____)(____)  (____)
_(___)(_)_(_)    _(___)(____)  (___)  (___) (_)__ (_)(____)  (____)" <<
endl;
      cout << " __(_)__ (_) (_)(_)_ (__)__ (_)   (_)    ( )_( )(_)___
(__)__    (_)___ (_) (_)(_)_(_)(_)_(_) _(__)(_)(_) (_)( )_(_)" << endl;
      cout << "(_______)(_) (_) (__) (____)(_)   (_)     (__)_) (____)
(____)    (____)(_) (_) (___)  (___) (____)(_)(_) (_) (____)" << endl;
```

```
      cout << "
(_)_(_)" << endl;

      cout << "
(___) " << endl;

      char interfaceChoose[10];

      cout << endl;

      cout << endl;

      cout << "\t***please choose your interface before further action***"
<< endl << endl;

      cout << "\t================= " << "\t" << "================= " <<
"\t" << "================= " << endl;

      cout << "\t#  !! ADMIN[A]  # " << "\t" << "#  !! GUEST[G]  # " <<
"\t" << "#  !! EXIT[E]   # " << endl;

      cout << "\t================= " << "\t" << "================= " <<
"\t" << "================= " << endl;

      cout << endl;


      do

      {

            cout << "\tPlease Choose The Interface: ";

            cin >> interfaceChoose;

            if (strlen(interfaceChoose) != 1)

            {

                  cout << "\tInvalid Input. Please Enter One Character
Only." << endl;

                  cout << "\t--------------------------------------------
--" << endl << endl;

                  continue;

            }

            else if (strcmp(interfaceChoose, "A") == 0 ||
strcmp(interfaceChoose, "a") == 0)

            {

                  loginadmin();

            }

            else if (strcmp(interfaceChoose, "G") == 0 ||
strcmp(interfaceChoose, "g") == 0)

            {
```

```
			LoginResgister();

			userUI();

		}

		else if (strcmp(interfaceChoose, "E") == 0 ||
strcmp(interfaceChoose, "e") == 0)

		{

			cout << "\tSee You Again >_<" << endl;

			exit(0);

			system("pause");

		}

		else

		{

			cout << "\tInvalid Input.Please Key In (A,G,E) Only." <<
endl;

			cout << "\t-----------------------------------------" <<
endl << endl;

		}

	} while (strcmp(interfaceChoose, "A") != 0 &&
strcmp(interfaceChoose, "a") != 0

		&& strcmp(interfaceChoose, "G") != 0 &&
strcmp(interfaceChoose, "g") != 0

		&& strcmp(interfaceChoose, "E") != 0 &&
strcmp(interfaceChoose, "e") != 0);

}


//**********************************************

//

//

//	below all admin interface!!!!!!

//

//

//***********************************************


void loginadmin()

{

	char id[50];
```

```
      char pass[50];
      bool correct = true;
      do
      {
            system("cls");
            cout <<
"  :::         ::::::::   ::::::::  ::::::::::  :::::   ::: " << endl;
            cout <<
"  :+:        :+:    :+: :+:    :+:     :+:     :+:+:   :+: " << endl;
            cout << "  +:+        +:+    +:+ +:+            +:+     :+:+:+
+:+ " << endl;
            cout << "  +#+        +#+    +:+ :#:            +#+     +#+
+:+ +#+ " << endl;
            cout << "  +#+        +#+    +#+ +#+   +#+#     +#+     +#+
+#+#+# " << endl;
            cout << "  #+#        #+#    #+# #+#    #+#     #+#     #+#
#+#+# " << endl;
            cout << "  ##########  ########   ########  ########### ###
#### \n\n\n";
            cout << "\t<< Welcome Admin >>" << endl;
            cout << "\t~~~~~~~~~~~~~~~~~~~" << endl << endl;
            cout << "\tUsername: ";
            cin >> id;
            if (strcmp(id, "admin") == 0)
            {
                  cout << "\tPassword: ";
                  cin >> pass;
                  cout << endl;
                  if (strcmp(pass, "admin") == 0)
                  {
                        cout << "\t***Correct Username and Password***" <<
endl;
                        correct = false;
                        cout << endl;
                        cout << "\t";
                        system("pause");
```

```
                admin();
            }
            else
            {
                cout << "\t !! Wrong password.Please Try Again" << 
endl;
                cout << "\t\t  [Hint: admin]" << endl << endl << 
endl << endl;
                cout << "\t";
                system("pause");
            }
        }
        else
        {
            cout << "\t !! Wong username.Please Try Again" << endl;
            cout << "\t\t  [Hint: admin]" << endl << endl << endl;
            cout << "\t";
            system("pause");
        }
    } while (correct == true);
}

void admin()
{


    system("cls");
    char choice[20];
    bool stop = true;
    cout << " ________   ______   ___ __ __    ________  ___   __" << 
endl;
    cout << "/_______/\\ /_____/\\ /__//_//_/\\  /_______/\\/__/\\ 
/__/\\    " << endl;
    cout << "\\::: _  \\ \\\\:::_ \\ \\\\::\\| \\| \\ \\ 
\\__.::._\\/\\::\\_\\\\  \\ \\   " << endl;
    cout << " \\::(_)  \\ \\\\:\\ \\ \\ \\\\:.      \\ \\   \\::\\ \\ 
\\:. `-\\  \\ \\  " << endl;
```

```
      cout << "  \\:: __  \\ \\\\:\\ \\ \\ \\\\. \\-/\\  \\ \\  _\\::\\
\\__\\:. _    \\ \\ " << endl;
      cout << "   \\:.\\ \\  \\ \\\\:\\/.:| |\\. \\  \\  \\
\\/__\\::\\__/\\\\. \\`-\\  \\ \\" << endl;
      cout << "    \\__\\/\\__\\/ \\____/_/ \\__\\/ \\__\\/\\________\\/
\\__\\/ \\__\\/" << endl << endl << endl << endl;
      cout << "\t## What's the plan taday ?" << endl << endl;
      cout << "\t------------MAIN MENU------------" << endl << endl;
      cout << "\t\t[1] Show Movie            " << endl << endl;
      cout << "\t\t[2] Add Movie             " << endl << endl;
      cout << "\t\t[3] Edit Movie              " << endl << endl;
      cout << "\t\t[4] Delete Movie        " << endl << endl;
      cout << "\t\t[5] View Transaction      " << endl << endl;
      cout << "\t\t[6] Main Page             " << endl << endl;
      cout << "\t\t[7] Exit Program      " << endl << endl;
      cout << "\t---------------------------------" << endl << endl;



      do
      {
            cout << "\tYour choice: ";
            cin >> choice;
            if (strlen(choice) != 1)
            {
                  cout << " \t!! Please Key In One Integer Only !! " <<
endl << endl;
                  continue;
            }
            else
            {
                  if (strcmp(choice, "1") == 0)
                  {
                        adminShowMovie();
                        break;
                  }
                  else if (strcmp(choice, "2") == 0)
                  {
                        addMovie();
                        break;
                  }
                  else if (strcmp(choice, "3") == 0)
                  {
                        editMovie();
                        break;
                  }
                  else if (strcmp(choice, "4") == 0)
                  {
                        deleteMovie();
                        break;
                  }
                  else if (strcmp(choice, "5") == 0)
                  {
                        ViewTrans();
                        break;
                  }
                  else if (strcmp(choice, "6") == 0)
                  {
                        home();
                        break;
                  }
                  else if (strcmp(choice, "7") == 0)
                  {
                        exit(0);
                        system("pause");
                  }
                  else
                  {
                        cout << " \t!! Please Key In (1-7) Only !!" <<
endl << endl;
```

```
                        continue;
                    }
                }
        } while (stop == true);
}



void adminShowMovie()
{
        cout << fixed << setprecision(2);

        system("cls");
        cout << "\n\t\t\t== Movie List == " << endl << endl << endl;
        storeInfoInArray(totalMovie);
        for (int i = 0; i < totalMovie - 1; i++)
        {
                cout << 
"\t================================================================" << 
endl;
                cout << "\t\tMovie " << i + 1 << " : <" << MovieTitle[i] << "> 
" << endl;
                cout << 
"\t================================================================" << 
endl;
                cout << "\tDescription of movie: " << MovieDesc[i] << endl;
                cout << fixed << setprecision(2);
                cout << "\tPrice RM " << MoviePrice[i] << endl;
                cout << "\tAvailable Seat: " << MovieSeat[i] << endl;
                cout << "\tStart Time: " << startTime[i] << endl;
                cout << "\tEnd Time: " << endTime[i] << endl;
                cout << endl << endl << endl;
        }
        system("pause");
        admin();
}
```

```
void addMovie()
{
      cout << fixed << setprecision(2);
      // variable for new movie
      system("cls");
      string newMovieTitle, MovieDesc;
      double price;
      int seat;
      string sTime, eTime;
      int addedM = 0;
      ofstream outMovieFile;
      outMovieFile.open("MovieList.txt", ios::app);

      char choice[20];
      cin.ignore();
      cout << "\t- - - - - - - - - - - - - - - - - - - - - - - - -     "
<< endl;
      cout << "\t|                  Add Movie                    |     "
<< endl;
      cout << "\t- - - - - - - - - - - - - - - - - - - - - - - - -     "
<< endl;
      cout << "\t   =============                                      "
<< endl;
      cout << "\t   !! EXAMPLE !!                                      "
<< endl;
      cout << "\t   =============                                      "
<< endl;
      cout << "\t   Movie Title: POKEMON                               "
<< endl << endl;
      cout << "\t   Movie Price: RM15.00                               "
<< endl << endl;
      cout << "\t   Total Seats: 30                                    "
<< endl << endl;
      cout << "\t   Movie Description: Adventure of Ash and Pikachu    "
<< endl << endl;
```

```
      cout << "\t   Movie Start Time: 8:00PM                           "
<< endl << endl;

      cout << "\t   Movie End Time: 11:00PM                           " <<
endl << endl;

      cout << "\t* * * * * * * * * * * * * * * * * * * * * * * * *      "
<< endl << endl;

      bool again = true;

      bool yes = true;

      do

      {

            cout << "\t   New Movie Title: ";

            getline(cin, newMovieTitle);

            cout << endl;

            outMovieFile << newMovieTitle;

            outMovieFile << endl;


            cout << "\t   New Movie Price: RM";

            cin >> price;

            cout << endl;

            outMovieFile << price;

            outMovieFile << endl;


            cout << "\t   New Total Seats: ";

            cin >> seat;

            cout << endl;

            outMovieFile << seat;

            outMovieFile << endl;


            cin.ignore();

            cout << "\t   New Movie Description: ";

            getline(cin, MovieDesc);

            cout << endl;

            outMovieFile << MovieDesc;

            outMovieFile << endl;
            cout << "\t   New Movie Starting Time: ";
            getline(cin, sTime);
            cout << endl;
            outMovieFile << sTime;
            outMovieFile << endl;

            cout << "\t   New Movie Ending Time: ";
            getline(cin, eTime);
            cout << endl;
            outMovieFile << eTime;
            outMovieFile << endl;
            cout << "\n\t***********************************************"
<< endl;;
            addedM++;

            do
            {
                  cout << "\n\n\t   ^^^Do you want to continue to add
movie?(Y/N):^^^ ";
                  cin >> choice;
                  cout <<
"\n\t***********************************************" << endl << endl;
                  cin.ignore();
                  if (strlen(choice) != 1)
                  {
                        cout << "\t   !! PLease Key In One Character
Only !! " << endl;
                        cout <<
"\n\t***********************************************" << endl << endl;
                  }
                  else
                  {
                        if (strcmp(choice, "Y") == 0 || strcmp(choice,
"y") == 0)
                        {
                              break;
                        }
                        else if (strcmp(choice, "N") == 0 ||
strcmp(choice, "n") == 0)
                        {
                              again = false;
                              yes = false;
                              cout << "\n\n\t   Total " << addedM << " New
Movie Added." << endl;
                              cout << endl << "\t";
                              system("pause");
                        }
                        else
                        {
                              cout << "\t   !! Please Key In (Y/N)
Only !!" << endl;
                              cout <<
"\n\t**********************************************" << endl << endl;
                        }
                  }
            } while (yes);
      } while (again);
      outMovieFile.close();
      system("cls");
      admin();
}

// edit movie by edit in the array
// store the array that already edit into the txt file
void editMovie()
{
      cout << fixed << setprecision(2);
      system("cls");
      storeInfoInArray(totalMovie);
      cout << "\n\t--------------------------------------------------" <<
endl;
      cout << "\t|**** Please Choose The Desire Movie To Edit ****|" <<
endl;
      cout << "\t--------------------------------------------------" <<
endl << endl;
      for (int i = 0; i < totalMovie - 1; i++)
      {
            cout << "  Movie [" << i + 1 << "] " << MovieTitle[i] << endl;
            cout << "    Description of movie: " << MovieDesc[i] << endl;
            cout << "    Price RM " << MoviePrice[i] << endl;
            cout << "    Total Seats: " << MovieSeat[i] << endl;
            cout << "    Start Time: " << startTime[i] << endl;
            cout << "    End Time: " << endTime[i] << endl;
            cout << "- - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - -" << endl;
      }
      bool check = false;
      int choice;
      do
      {
            cout << "\t   Please Select The Number of Movie You Want to
Edit (1-" << totalMovie - 1 << ") : ";
            cin >> choice;
            cin.ignore();
            if (choice > totalMovie - 1 || choice <= 0)
            {
                  cout << "   !! Invalid Input.Key in Number in Range
Only !!" << endl << endl;
            }
            else
            {
                  check = true;
            }
      } while (check == false);
```

```
    for (int i = 0; i < totalMovie - 1; i++)
    {
        if (i == choice - 1)
        {
            cout << "\t=================================" << endl;
            cout << "\t   A. Title" << endl << endl;
            cout << "\t   B. Description" << endl << endl;
            cout << "\t   C. Price" << endl << endl;
            cout << "\t   D. Seat" << endl << endl;
            cout << "\t   E. Start time" << endl << endl;
            cout << "\t   F. End time" << endl << endl;
            cout << "\t=================================" << endl <<
endl;

            char editChoice[20];
            bool stop = true;
            do
            {
                cout << "\t   << Please select what part of the
movie you want to edit: >> ";
                cin >> editChoice;
                cin.ignore();

                if (strcmp(editChoice, "A") == 0 ||
strcmp(editChoice, "a") == 0)
                {
                    string newTitle;
                    cout << "\t\t   New title: ";
                    getline(cin, newTitle);
                    MovieTitle[i] = newTitle;
                    cout << "\t\t" << "****New Title
Updated****" << endl << endl;
                    stop = false;
                }
```

```
                        else if (strcmp(editChoice, "B") == 0 ||
strcmp(editChoice, "b") == 0)
                        {
                              string newDescription;
                              cout << "\t\t   New description: ";
                              getline(cin, newDescription);
                              MovieDesc[i] = newDescription;
                              cout << "\t\t" << "****New Description
Updated****" << endl << endl;
                              stop = false;
                        }
                        else if (strcmp(editChoice, "C") == 0 ||
strcmp(editChoice, "c") == 0)
                        {
                              double newPrice;
                              cout << "\t\t   New price: ";
                              cin >> newPrice;
                              MoviePrice[i] = newPrice;
                              cout << "\t\t" << "****New Price
Updated****" << endl << endl;
                              stop = false;
                        }
                        else if (strcmp(editChoice, "D") == 0 ||
strcmp(editChoice, "d") == 0)
                        {
                              int newSeat;
                              cout << "\t\t   New Total Seat: ";
                              cin >> newSeat;
                              MovieSeat[i] = newSeat;
                              cout << "\t\t" << "****New Seat Updated****"
<< endl << endl;
                              stop = false;
                        }
                        else if (strcmp(editChoice, "E") == 0 ||
strcmp(editChoice, "e") == 0)
                        {
                              string newStartTime;
                              cout << "\t\t   New starting time: ";
                              cin >> newStartTime;
                              startTime[i] = newStartTime;
                              cout << "\t\t" << "****New Starting Time
Updated****" << endl << endl;
                              stop = false;
                        }
                        else if (strcmp(editChoice, "F") == 0 ||
strcmp(editChoice, "f") == 0)
                        {
                              string newEndTime;
                              cout << "\t\t   New ending time: ";
                              cin >> newEndTime;
                              endTime[i] = newEndTime;
                              cout << "\t\t" << "****New Ending Time
Updated****" << endl << endl;
                              stop = false;
                        }
                        else
                        {
                              cout << "\t !! Invalid Option. Please Try
Again !!" << endl << endl;
                        }
                  } while (stop == true);

            }
      }

      // store the array info into txt file
      ofstream outMovieFile;
      outMovieFile.open("MovieList.txt");

      for (int i = 0; i < totalMovie - 1; i++)
      {
            outMovieFile << MovieTitle[i] << endl;
            outMovieFile << MoviePrice[i] << endl;
            outMovieFile << MovieSeat[i] << endl;
            outMovieFile << MovieDesc[i] << endl;
            outMovieFile << startTime[i] << endl;
            outMovieFile << endTime[i] << endl;
      }
      system("pause");
      admin();
}


void deleteMovie()
{
      cout << fixed << setprecision(2);
      int n;
      system("cls");
      cout << "\n\t--------------------------------------------------" <<
endl;
      cout << "\t|****Please Choose The Desire Movie To Delete****|" <<
endl;
      cout << "\t--------------------------------------------------" <<
endl << endl << endl;
      ofstream DeleteMovieFile;
      storeInfoInArray(totalMovie);
      n = totalMovie;
      for (int i = 0; i < n - 1; i++)
      {
            cout <<
"~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~" <<
endl;
            cout << "   Movie [" << i + 1 << "] " << MovieTitle[i] <<
endl;
            cout <<
"~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~" <<
endl << endl;
```

```
    }
    cout << "Which Movie You Want To Delete: ";
    cin >> i;
    if (i >= totalMovie)
    {
        cout << "\n  Invalid Movie. Back to Admin Interface\n\t";
        system("pause");
        admin();
    }
    cout << MovieTitle[i - 1] << " is deleted." << endl;
    for (i = i; i < n - 1; i++)
    {
        MovieTitle[i - 1] = MovieTitle[i];
        MoviePrice[i - 1] = MoviePrice[i];
        MovieSeat[i - 1] = MovieSeat[i];
        MovieDesc[i - 1] = MovieDesc[i];
        startTime[i - 1] = startTime[i];
        endTime[i - 1] = endTime[i];
    }
    n--;
    DeleteMovieFile.open("MovieList.txt");
    for (int i = 0; i < n - 1; i++)
    {
        DeleteMovieFile << MovieTitle[i] << endl;
        DeleteMovieFile << MoviePrice[i] << endl;
        DeleteMovieFile << MovieSeat[i] << endl;
        DeleteMovieFile << MovieDesc[i] << endl;
        DeleteMovieFile << startTime[i] << endl;
        DeleteMovieFile << endTime[i] << endl;
    }
    system("pause");
    admin();
}
```

```
void ViewTrans()
{
      cout << fixed << setprecision(2);
      system("cls");
      cout << "O))) O))))))
O))                                 " << endl;
      cout << "     O))
O))   O)                   " << endl;
      cout << "     O))    O) O)))   O))    O)) O))   O))))    O))
O)))O)O) O)      O))    O)) O))  " << endl;
      cout << "     O))     O))    O))  O))  O))  O))O))     O))  O))  O))
O))  O)) O))  O))  O))  O))" << endl;
      cout << "     O))     O))   O))   O))  O))  O))  O))) O))   O)) O))
O))  O))O))    O)) O))  O))" << endl;
      cout << "     O))     O))   O))   O))  O))  O))    O))O))   O))  O))
O))  O)) O))  O))  O))  O))" << endl;
      cout << "     O))    O)))     O)) O)))O)))  O))O)) O))  O)) O)))
O)))   O)) O))   O))    O)))  O))" << endl << endl << endl;


      string line;
      cout << "   ## Here the transaction all the time ##" << endl;
      cout << "^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^
^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ ^-^ " << endl;
      ifstream adminview;
      adminview.open("AdminView.txt");
      if (adminview.is_open())
      {
            while (getline(adminview, line))
            {
                  cout << "\t" << line << endl << endl;
            }
            adminview.close();
      }
      system("pause");
      admin();
```

```
}



//*************************************************
//
//
//      below all user interface!!!!!!
//          below all login register interface!!!!!!
//
//
//
//**************************************************

void LoginResgister()
{
      system("cls");
      cout << "   |    / |  / /     //   / /     / /        //   ) )
//   ) )     /|    //| |     //   / / " << endl;
      cout << "   ||  /  | / /     //____       / /        //            //
/ /     //|   // | |    //____    " << endl;
      cout << "   || / /||/ /     / ____       / /        //            //
/ /     // |  //  | |   / ____     " << endl;
      cout << "   ||/ / |  /     //           / /        //            //
/ /     //  | //   | |  //          " << endl;
      cout << "   |  /  | /     //____/ /    / /____/ / ((____/ /
((___/ /     //   |//    | | //____/ /    " << endl << endl << endl;
      char choose[100];
      bool check = false;
      do
      {
            cout << "\t   ***Do You Have Account Before[Y/N]*** : ";
            cin >> choose;
            if (strlen(choose) != 1)
            {
                  cout << "\t!! Opps Wrong Input.Please Key In One Letter
Only !!" << endl << endl;
```

```
            cout << "\t";
            system("pause");
            LoginResgister();
        }
        else if (strcmp(choose, "y") == 0 || strcmp(choose, "Y") == 0)
        {
            check = true;
            Login();

        }
        else if (strcmp(choose, "n") == 0 || strcmp(choose, "N") == 0)
        {
            check = true;
            Register();
        }
        else {
            cout << "\t!! Opps Wrong Input.Please Key In
(Y/N)Only !!" << endl << endl;
            cout << "\t";
            system("pause");
            LoginResgister();
        }
    } while (check == false);
}



bool userExist(string email_1)
{
    ifstream userregister("userregister.txt");
    if (userregister.is_open()) {
        string username, password, email;
        while (!userregister.eof()) {
            userregister >> email >> password >> username;
            if (email_1 == email) {
```

```
                        userregister.close();
                        return true;
                        break;
                    }
                }
                userregister.close();
            }
            return false;
}



void Register()
{
            system("cls");
            cout << " ______    ______   _______    ________  ______   _________
______   ______" << endl;
            cout << "/_____/\\  /_____/\\ /______/\\  /_______/\\/_____/\\
/________/\\/_____/\\ /_____/\\      " << endl;
            cout << "\\:::_ \\ \\
\\::::_\\/_\\::::__\\/__\\__.::._\\/\\::::_\\/_\\__.::.__\\/\\::::_\\/_\\:
::_ \\ \\     " << endl;
            cout << " \\:(_) ) )_\\:\\/___/\\\\:\\ /____/\\  \\::\\ \\
\\:\\/___/\\  \\::\\ \\   \\:\\/___/\\\\:(_) ) )_   " << endl;
            cout << "  \\: __ `\\ \\\\::___\\/_\\:\\\\_  _\\/  _\\::\\
\\__\\_::._\\:\\  \\::\\ \\   \\::___\\/_\\: __ `\\ \\  " << endl;
            cout << "   \\ \\ `\\ \\ \\\\:\\____/\\\\:\\_\\ \\ \\ /__\\::\\__/\\
/____\\:\\  \\::\\ \\   \\:\\____/\\\\ \\ `\\ \\ \\ " << endl;
            cout << "  __\\_\\/_\\_\\/_\\_____\\/ \\_____\\/ \\________\\/
\\_____\\/_  \\__\\/___ \\_____\\/_\\_\\/_\\_\\/ __      " << endl;
            cout << " /_______/\\ /__/\\ /__/\\ /_____/\\     /_/\\
/_____/\\ /______/\\  /_______/\\/__/\\ /__/\\    " << endl;
            cout << " \\::: _  \\ \\\\::\\_\\\\  \\ \\\\:::_ \\ \\    \\:\\ \\
\\:::_ \\ \\\\::::__\\/__\\__.::._\\/\\::\\_\\\\  \\ \\   " << endl;
            cout << "  \\::(_)  \\ \\\\:. `-\\  \\ \\\\:\\ \\ \\ \\    \\:\\ \\
\\:\\ \\ \\ \\\\:\\ /____/\\  \\::\\ \\  \\:. `-\\  \\ \\  " << endl;
            cout << "   \\:: __  \\ \\\\:. _    \\ \\\\:\\ \\ \\ \\    \\:\\
\\____\\:\\ \\ \\ \\\\:\\\\_  _\\/  _\\::\\ \\__\\:. _    \\ \\ " << endl;
```

```
      cout << "    \\:.\\ \\  \\ \\\\. \\`-\\  \\ \\\\:\\/.:| |
\\:\\/___/\\\\:\\_\\ \\ \\\\:\\_\\ \\ \\ /__\\::\\__/\\\\. \\`-\\  \\ \\"
<< endl;

      cout << "     \\__\\/\\__\\/ \\__\\/ \\__\\/ \\____/_/
\\_____\\/ \\_____\\/ \\_____\\/ \\________\\/ \\__\\/ \\__\\/" << endl <<
endl << endl << endl;


      cout << "\t--------------------------" << endl;

      cout << "\t|    Register account    |" << endl;

      cout << "\t--------------------------" << endl;


      string email_1, email_2, password_1, password_2;

      ofstream userregister;

      userregister.open("userregister.txt", ios::app);

      if (userregister.is_open())

      {

            cout << "\t<< Please enter your email >>\n" << "Email: ";

            cin >> email_1;

            cout << "\t<< Please reenter your email >>\n" << "Email:";

            cin >> email_2;

            cout <<
"..........................................................." << endl;


            // check for email

            while (email_1 != email_2)

            {

                  cout << "\t<< Email do not match, kindly retype
agian >>\n" << "Email:";

                  cin >> email_1;

                  cout << "\t<< Please reenter your email >>\n" <<
"Email:";

                  cin >> email_2;

                  cout <<
"..........................................................." << endl;

            }

            if (userExist(email_1))
            {
                  cout << "\t***Account already exist, proceed to login 
interface***" << endl;
                  system("pause");
                  cout << endl;
                  Login();
            }

            // check for password
            cout << "\t<< Please enter your password >>\n" << "Password: 
";
            cin >> password_1;
            cout << "\t<< Please reenter your password >>\n" << 
"Password:";
            cin >> password_2;
            cout << 
"............................................................." << endl;
            while (password_1 != password_2)
            {
                  cout << "\t<< Password do not match, kindly retype 
agian >>\n" << "Password:";
                  cin >> password_1;
                  cout << "\t<< Please reenter your password >>\n" << 
"Password:";
                  cin >> password_2;
                  cout << 
"............................................................." << endl;
            }

            cout << "\t<< Please set a username for yourself >>\n" << 
"Username:";
            cin >> username;

            // input the email and password into the unresgister.txt
            userregister << email_1 << endl;
            userregister << password_1 << endl;
            userregister << username << endl;


            cout << "\t***Thanks for register an account with us***" <<
endl;
            userregister.close();
            system("pause");
            Login();
      }
      else
            cout << "\t!! cant open file !!";
      system("pause");
}



void Login()
{
      system("cls");
      cout << " __       ______   _______    ________  ___   __      " <<
endl;
      cout << "/_/\\     /_____/\\ /______/\\  /_______/\\/__/\\ /__/\\
" << endl;
      cout << "\\:\\ \\    \\:::_ \\
\\\\::::__\\/__\\__.::._\\/\\::\\_\\\\  \\ \\   " << endl;
      cout << " \\:\\ \\    \\:\\ \\ \\ \\\\:\\ /____/\\  \\::\\ \\  \\:.
`-\\  \\ \\  " << endl;
      cout << "  \\:\\ \\____\\:\\ \\ \\ \\\\:\\\\_  _\\/  _\\::\\
\\__\\:. _    \\ \\ " << endl;
      cout << "   \\:\\/___/\\\\:\\_\\ \\ \\\\:\\_\\ \\ \\
/__\\::\\__/\\\\. \\`-\\  \\ \\" << endl;
      cout << "    \\_____\\/ \\_____\\/ \\_____\\/ \\________\\/ \\__\\/
\\__\\/" << endl;


      bool loggedIn = false;
      string  _password, _input;
      cout << "\t<< Please enter your registered email or username >>" <<
endl << "Email/Username:";
      cin >> _input;
```

```
    cout << "\t<< Please enter the password >>" << endl << "Password: ";
    cin >> _password;
    ifstream userregister;
    userregister.open("userregister.txt");

    if (userregister.is_open())
    {
        string email, username, password;
        while (!userregister.eof())
        {
            getline(userregister, email);
            getline(userregister, password);
            getline(userregister, username);

            if (email == _input && password == _password) {
                loggedIn = true;

                // write the username into a file
                ofstream userNameFile("username.txt");
                userNameFile << _input;
                break;
            }
            else if (username == _input && password == _password) {
                loggedIn = true;
                break;
            }
            else {
                loggedIn = false;
            }
        }
        userregister.close();
        if (loggedIn) {
            cout << "\t***Login successful. Welcome " << _input <<
"!***" << endl;
```

```
                  cout << "\t" << system("pause");
                  userUI();
            }
            else {
                  if (password != _password)
                  {
                        cout << "-----------------------------------------
---------------------------------------------" << endl;
                        cout << "\n\t\t\t***Password incorrect.***" <<
endl << endl;
                  }
                  else
                  {
                        cout << "-----------------------------------------
---------------------------------------------" << endl;
                        cout << "\n\t\t\t***Oops user not found.***" <<
endl;
                  }

                  while (loggedIn == false) {
                        char choose[10];
                        cout << "\t- - > Do you want to login again or
register a new account? < - -" << endl << endl << endl;
                        cout << "\t# # # # # # # # # # # # # # # # # # #
# # # # # # # # # # # # #" << endl;
                        cout << "\t# #                           |
# # #" << endl;
                        cout << "\t# #          [A] login        |
[B] register         # # #" << endl;
                        cout << "\t# #                           |
# # #" << endl;
                        cout << "\t# # # # # # # # # # # # # # # # # # #
# # # # # # # # # # # # #" << endl;
                        cout << "Your choice: ";
                        cin >> choose;
                        if (strcmp(choose, "A") == 0 || strcmp(choose,
"a") == 0) {
                              Login();
                        }
                        else if (strcmp(choose, "B") == 0 ||
strcmp(choose, "b") == 0)
                        {
                              Register();
                        }
                        else {
                              cout << "\t<< Invalid input proceed to login
page >>" << endl;
                              system("pause");
                              Login();
                        }
                  }
            }

      }
      else {
            cout << " !! Error: Failed to open users file !! " << endl;
            system("pause");
            LoginResgister();
      }
}




void userUI()
{
      system("cls");
      cout << "\t      __ __                                    _______
__           " << endl;
      cout << "\t     / //_/___ _____ ___  ____  ____ ______   /
____(_)___  ___  ____  / /__  _  __  " << endl;
      cout << "\t    / ,< / __ `/ __ `__ \\/ __ \\/ __ `/ ___/  / /   / /
__ \\/ _ \\/ __ \\/ / _ \\| |/_/  " << endl;
      cout << "\t   / /| / /_/ / / / / / / /_/ / /_/ / /     / /___/ / / /
/  __/ /_/ / /  __/>  <    " << endl;
```

```
      cout << "\t  /_/ |_\\__,_/_/ /_/ /_/ .___/\\__,_/_/      \\____/_/_/
/_/\\___/ .___/_/\\___/_/|_|     " << endl;
      cout << "\t                      /_/
/_/                     " << endl;


      char choice[25];
      cout << "\t- - - - - - - - - - - - - - - - - - - - - - - - - - " <<
endl;
      cout << "\t                     MAIN MENU                    | " <<
endl;
      cout << "\t- - - - - - - - - - - - - - - - - - - - - - - - - - " <<
endl;
      cout << "\t                                          " << endl <<
endl;
      cout << "\t         [1] Movie Description             " << endl <<
endl;
      cout << "\t         [2] Book Movie                    " << endl <<
endl;
      cout << "\t         [3] Show History                  " << endl <<
endl;
      cout << "\t         [4] Cancel Booking                " << endl <<
endl;
      cout << "\t         [5] Payment                       " << endl <<
endl;
      cout << "\t         [6] Home Page                     " << endl <<
endl;
      cout << "\t^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^" <<
endl << endl << endl;



      do
      {
            cout << "Your choice: ";
            cin >> choice;
            if (strlen(choice) != 1)
            {
                  cout << " \t!! Please Key In One Integer Only !! " <<
endl << endl;
                  continue;
```

```
}
else
{
      if (strcmp(choice, "1") == 0)
      {
            showMovie();
            break;
      }
      else if (strcmp(choice, "2") == 0)
      {
            bookMovie();
            break;
      }
      else if (strcmp(choice, "3") == 0)
      {
            showHistory();
            break;
      }
      else if (strcmp(choice, "4") == 0)
      {
            cancelBooking();
            break;
      }
      else if (strcmp(choice, "5") == 0)
      {
            paybill();
            break;
      }
      else if (strcmp(choice, "6") == 0)
      {
            home();
            break;
      }
```

```
            else
            {
                cout << "Invalid input, please choose again" <<
endl;
                continue;
            }
        }

    } while (true);

}




// correct le
void showMovie()
{
    cout << fixed << setprecision(2);
    system("cls");
    cout << "\n\t\t\t!! POPULAR IN THEATER NOW !! " << endl << endl <<
endl;
    storeInfoInArray(totalMovie);
    for (int i = 0; i < totalMovie - 1; i++)
    {
        cout <<
"\t================================================================" <<
endl;
        cout << "\t\tMovie " << i + 1 << " : <" << MovieTitle[i] << ">
" << endl;
        cout <<
"\t================================================================" <<
endl;
        cout << "\tDescription of movie: " << MovieDesc[i] << endl;
        cout << "\tPrice RM " << MoviePrice[i] << endl;
        cout << "\tAvailable Seat: " << MovieSeat[i] << endl;
        cout << "\tStart Time: " << startTime[i] << endl;
```

```
            cout << "\tEnd Time: " << endTime[i] << endl;
            cout << endl;


      }
      cout << endl << endl;
      system("pause");
      userUI();
}



void bookMovie()
{
      cout << fixed << setprecision(2);
      int noSeat;
      system("cls");
      //display movie for cust to choose
      storeInfoInArray(totalMovie);


      cout << "\n\t\t____________________________________" << endl;
      cout << "\t\t !!! Got'em All Before Sold Out !!!" << endl;
      cout << "\t\t------------------------------------" << endl << endl
<< endl;
      cout <<
"   ..............................................................." <<
endl;




      for (int i = 0; i < totalMovie - 1; i++)
      {
            cout <<
"=====================================================================" <<
endl;
            cout << "\t" << i + 1 << ") Movie: " << MovieTitle[i] << endl;
            cout << "\t" << "  Description of movie: " << MovieDesc[i] <<
endl;
            cout << "\t" << "  Movie seat: " << MovieSeat[i] << endl;
            cout << "\t" << "  Price RM " << MoviePrice[i] << endl;
            cout << "\t" << "  Start Time: " << startTime[i] << endl;
            cout << "\t" << "  End Time: " << endTime[i] << endl;
            cout << endl;

      }

      int movieChoice, bookedMovieNo;
      char custChoice[10];
      cout << endl << endl <<
"++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++" <<
endl;
      cout << "\tDo you want to continue to book the movie?" << endl;
      cout << "\t\t--------------------" << endl;
      cout << "\t\t|   Y-yes , N-no   |" << endl;
      cout << "\t\t--------------------" << endl;
      cout << "\tYour choice: ";
      cin >> custChoice;
      if (strcmp(custChoice, "Y") == 0 || strcmp(custChoice, "y") == 0)
      {
            // let user choose movie
            cout <<
"~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~" <<
endl;
            cout << "\tSelect the movie you want to book: ";
            cin >> movieChoice;
            cin.ignore();
            cout <<
"~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~" <<
endl;
            if (movieChoice > totalMovie - 1 || movieChoice <= 0)
            {
                  cout << "\tKey in the range from 1 to " << totalMovie -
1 << " only" << endl;
                  system("pause");
                  bookMovie();
```

```
            }
            else
            {
                  cout << "\tYour movie booked is " <<
MovieTitle[movieChoice - 1] << endl;
                  bookedMovieNo = movieChoice;
                  if (MovieSeat[movieChoice - 1] <= 0)
                  {
                        cout << "\tThe movie was sold out" << endl;
                        system("pause");
                        bookMovie();
                  }
                  else
                  {

                        cout << "\tPlease select the number of seat you
want to book: ";
                        cin >> noSeat;

                        if (noSeat > MovieSeat[movieChoice - 1])
                        {
                              cout << "\tThe seat left only " <<
MovieSeat[movieChoice - 1] << endl;
                              system("pause");
                              bookMovie();
                        }
                        else
                        {
                              cout <<
"~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~" <<
endl;
                              cout << "\t!!!The movie " <<
MovieTitle[movieChoice - 1] << " with " << noSeat << " seat booked
successfully!!!" << endl << endl << endl;
                        }
```

```
                MovieSeat[movieChoice - 1] = MovieSeat[movieChoice
- 1] - noSeat;

                int n = totalMovie;
                ofstream storeMovieFile;
                storeMovieFile.open("MovieList.txt");
                for (int i = 0; i < n - 1; i++)
                {
                    storeMovieFile << MovieTitle[i] << endl;
                    storeMovieFile << MoviePrice[i] << endl;
                    storeMovieFile << MovieSeat[i] << endl;
                    storeMovieFile << MovieDesc[i] << endl;
                    storeMovieFile << startTime[i] << endl;
                    storeMovieFile << endTime[i] << endl;
                }
                storeMovieFile.close();

            }
        }

        // open text to store the book movie info into a text file for
cust usage
        // store in permenent file
        ofstream outFile("temp_booked_movie_info.txt", ios::app);

        outFile << MovieTitle[movieChoice - 1] << endl;
        outFile << noSeat << endl;
        outFile << MoviePrice[movieChoice - 1] << endl;
        outFile << startTime[movieChoice - 1] << endl;
        outFile << endTime[movieChoice - 1] << endl;
        outFile.close();

    }
```

```
	else if (strcmp(custChoice, "N") == 0 || strcmp(custChoice, "n") ==
0)
	{
		userUI();
	}
	else
	{
		cout << "Invalid input" << endl;
		system("pause");
		bookMovie();
	}
	system("pause");
	userUI();
}


// show cust the book history
void showHistory()
{
	cout << fixed << setprecision(2);
	double totalPrice = 0;
	system("cls");
	storeBookedInfoInArray(totalBookedMovie);
	ifstream nameFile;
	nameFile.open("username.txt");
	if (nameFile.is_open())
	{
		while (!nameFile.eof())
		{
			getline(nameFile, username);
		}
	}
	nameFile.close();
```

```
      if (totalBookedMovie - 1<= 0)
      {
            char choose[10];
            cout << "\t\t\t-------------------------" << endl;
            cout << "\t\t\t|        HISTORY         |" << endl;
            cout << "\t\t\t-------------------------" << endl;
            cout << "\n\tSo Empty Here, Go Get'em Shall We? >_<" << endl;
            cout << "\t= = = = = = = = = = = = = = = = = = = " << endl;
            cout << "\t ***Press Y to get your ticket now***" << endl <<
"\t" << endl;
            cout << "\t     ***Press anykey to leave***" << endl << "\t"
<< endl;
            cout << "\t     Your Choice : ";
            cin >> choose;
            if (strcmp(choose, "y") == 0 || strcmp(choose, "Y") == 0) {
                  cout << "\t      !!Great choice.Let's go!!" << endl;
                  cout << "\t";
                  system("pause");
                  bookMovie();
            }
            else {
                  cout << "\n\tBack to User Interface." << endl;
                  system("pause");
                  userUI();
            }
      }
      else
      {
            cout << "\t\t\t-------------------------" << endl;
            cout << "\t\t\t|        HISTORY         |" << endl;
            cout << "\t\t\t-------------------------" << endl << endl;
            cout << "\t\t       >_< Hi, my dear " << username << endl;
            cout << "\t\t       Here is your booking history" << endl <<
endl << endl;
```

```
            for (int i = 0; i < totalBookedMovie - 1; i++)
            {
                  cout <<
"=========================================================================
======================" << endl;
                  cout << "\t\t" << bMovietitle[i] << endl;
                  cout << "\t\tNumber of seat booked: " <<
bNumMovieSeat[i] << endl << endl;
                  cout << "\t\tPrice: RM " << bMoviePrice[i] << endl <<
endl;
                  cout << "\t\tStarting Time: " << bMovieStartTime[i] <<
" , End time: " << bMovieEndTime[i] << endl << endl;
            }
            for (int i = 0; i < totalBookedMovie - 1; i++)
            {
                  cout << fixed << setprecision(2);
                  totalPrice += bMoviePrice[i] * bNumMovieSeat[i];
            }
            cout << "\t\tThe Total Price Is << RM" << totalPrice << " >> "
<< endl << endl;
            cout << "\t\t" << paidStatus << endl << endl;


            char paychoice[10];
            cout << "*****Do you want to make payment?(Y-yes, N-no)*****:
";
            cin >> paychoice;
            if (strcmp(paychoice, "Y") == 0 || strcmp(paychoice, "y") ==
0)
            {
                  paybill();
            }
            else if (strcmp(paychoice, "N") == 0 || strcmp(paychoice, "n")
== 0)
            {
                  system("pause");
                  userUI();
```

```
        }
        else
        {
            cout << "\tInvalid Input. Key In (Y/N) only." << endl;
            system("pause");
            showHistory();
        }

    }
    cout << endl;


}

void cancelBooking()
{
    cout << fixed << setprecision(2);
    system("cls");
    int choice;
    cout << "\t\t\t*********************************" << endl;
    cout << "\t\t\t|        CANCEL BOOKING         |" << endl;
    cout << "\t\t\t*********************************" << endl << endl;


    storeBookedInfoInArray(totalBookedMovie);
    if (totalBookedMovie - 1 <= 0)
    {

        cout << "\t\t\t----------------------------------" << endl;
        cout << "\t\t\t|             Empty              |" << endl;
        cout << "\t\t\t----------------------------------" << endl;
```

```
            cout << endl << endl << "\tYou have not book any movie" <<
endl << endl;
            system("pause");
            userUI();
      }

      ofstream CancelFile;
      for (int i = 0; i < totalBookedMovie - 1; i++)
      {
            cout << "\tBooked Movie " << i + 1 << ": " << bMovietitle[i]
<< endl << endl;
            cout << "\tBooked Seat: " << bNumMovieSeat[i] << endl << endl;
            cout << "\tMovie Price: " << bMoviePrice[i] << endl << endl;
            cout << "\tMovie Show Time : " << bMovieStartTime[i] << " - "
<< bMovieEndTime[i] << endl << endl;
            cout << "= = = = = = = = = = = = = = = = = = = = = = = = = = =
= = " << endl;
      }
      cout << "\tWhich movie you want to cancel (1-" << totalBookedMovie -
1 << ") : ";
      cin >> choice;
      if (choice > totalBookedMovie-1 || choice <= 0)
      {
            cout << "\t!! Please key in movie in range only !!" << endl <<
endl;
            system("pause");
            cancelBooking();
      }
      else
      {
            cout << "\tYour Booked Movie ( " << bMovietitle[choice - 1] <<
" ) has canceled." << endl;
            for (int i = choice; i < totalBookedMovie - 1; i++)
            {
                  bMovietitle[i - 1] = bMovietitle[i];
                  bNumMovieSeat[i - 1] = bNumMovieSeat[i];
                  bMoviePrice[i - 1] = bMoviePrice[i];
                  bMovieStartTime[i - 1] = bMovieStartTime[i];
                  bMovieEndTime[i - 1] = bMovieEndTime[i];
            }
            CancelFile.open("temp_booked_movie_info.txt");
            for (int i = 0; i < totalBookedMovie - 2; i++)
            {
                  CancelFile << bMovietitle[i] << endl;
                  CancelFile << bNumMovieSeat[i] << endl;
                  CancelFile << bMoviePrice[i] << endl;
                  CancelFile << bMovieStartTime[i] << endl;
                  CancelFile << bMovieEndTime[i] << endl;
            }
            CancelFile.close();
            system("pause");
            userUI();
      }

}

void paybill()
{


      system("cls");
      double totalPrice = 0;
      cout << fixed << setprecision(2);
      cout << "\n$$$$$$$\\
$$\\     " << endl;
      cout << "$$  __$$\\
$$ |    " << endl;
      cout << "$$ |  $$ |$$$$$$\\  $$\\   $$\\ $$$$$$\\$$$$\\   $$$$$$\\
$$$$$$$\\ $$$$$$\\   " << endl;
      cout << "$$$$$$$  |\\____$$\\ $$ |  $$ |$$  _$$  _$$\\ $$  __$$\\
$$  __$$\\\\_$$  _|  " << endl;
```

```
      cout << "$$  ____/ $$$$$$$ |$$ |  $$ |$$ / $$ / $$ |$$$$$$$$ |$$ |
$$ | $$ |    " << endl;
      cout << "$$ |     $$  __$$ |$$ |  $$ |$$ | $$ | $$ |$$   ____|$$ |
$$ | $$ |$$\\ " << endl;
      cout << "$$ |     \\$$$$$$$ |\\$$$$$$$ |$$ | $$ | $$ |\\$$$$$$$\
$$ |  $$ | \$$$$  |" << endl;
      cout << "\\__|      \\_______| \\____$$ |\\__| \\__| \\__|
\\_______|\\__|  \\__|  \\____/ " << endl;
      cout << "                   $$\\   $$ |
                                           " << endl;
      cout << "                   \\$$$$$$  |
                                           " << endl;
      cout << "                    \\______/
                                           " << endl << endl << endl;
      storeBookedInfoInArray(totalBookedMovie);
      ofstream clearFile;
      char choice[15];
      cout << "\tDo you want to perform the payment?: " << endl;
      cout << "\t\t[Y - yes | N - no] :";
      cin >> choice;
      cout << endl;
      if (strcmp(choice, "Y") == 0 || strcmp(choice, "y") == 0)
      {
            for (int i = 0; i < totalBookedMovie - 1; i++)
            {
                  cout << fixed << setprecision(2);
                  totalPrice += bMoviePrice[i] * bNumMovieSeat[i];
            }
            char choice2[20];
            cout << "\t $$ The total price: RM " << totalPrice << " $$" <<
endl;
            cout << "\t--------------------------------------" << endl;
            cout << "\t|Press Y to comfirm the payment      |" << endl;
            cout << "\t|Press other key to exit the payment |" << endl;
            cout << "\t--------------------------------------" << endl;
            cout << "\tYour choice: ";
            cin >> choice2;
            cout << endl <<
"====================================================" << endl;
            if (strcmp(choice2, "Y") == 0 || strcmp(choice2, "y") == 0)
            {
                  cout << "$$ Your payment are done hope you have a good
day $$" << endl << endl;
                  ifstream nameFile;
                  nameFile.open("username.txt");
                  getline(nameFile, username);
                  nameFile.close();
                  storeBookedInfoInArray(totalBookedMovie);
                  ofstream adminFile("AdminView.txt", ios::app);
                  adminFile << "USERNAME: " << username << endl;;
                  for (int i = 0; i < totalBookedMovie - 1; i++)
                  {
                        adminFile << "BOOKED MOVIE: " << bMovietitle[i] <<
endl;
                        adminFile << "BOOKED SEAT: " << bNumMovieSeat[i]
<< endl;
                        cout << fixed << setprecision(2);
                        adminFile << "PRICE FOR THE SEAT: RM" <<
bMoviePrice[i] * bNumMovieSeat[i] << endl;
                  }
                  cout << fixed << setprecision(2);
                  adminFile << "TOTAL PRICE: RM" << totalPrice << endl;
                  adminFile << "PAYMENT: PAID" << endl << endl;


                  adminFile.close();
                  clearFile.open("temp_booked_movie_info.txt");
                  clearFile << "";
                  clearFile.close();
                  system("pause");
                  userUI();
            }
            else
            {
                  cout << "Exit the payment" << endl;
                  system("pause");
                  userUI();
            }

      }
      else if (strcmp(choice, "N") == 0 || strcmp(choice, "n") == 0)
      {
            cout << endl << "Back to User Interface. " << endl << endl;
            system("pause");
            userUI();
      }
      else
      {
            cout << endl << "Invalid Input. Key In (Y/N) Only. " << endl
<< endl;
            system("pause");
            paybill();
      }
}



// function to store the cust info from cust_info.txt to array
// when want to use the array pls call the function
void storeBookedInfoInArray(int& totalBookedMovie)
{
      cout << fixed << setprecision(2);
      int total = 0;
      int i = 0;
      ifstream bookfile;
      bookfile.open("temp_booked_movie_info.txt");
      if (bookfile.is_open())
```

```
    {
        while (!bookfile.eof())
        {
            //bookfile.ignore();
            getline(bookfile, btitle);
            bMovietitle[i] = btitle;

            //bookfile.ignore();
            bookfile >> bSeat;
            bNumMovieSeat[i] = bSeat;

            /*bookfile.ignore();*/
            bookfile >> bprice;
            bMoviePrice[i] = bprice;

            bookfile >> bStartTime;
            bMovieStartTime[i] = bStartTime;

            bookfile >> bEndTime;
            bMovieEndTime[i] = bEndTime;

            i++;
            total++;
            bookfile.ignore();
        }
    }
    totalBookedMovie = total;
    bookfile.close();
}


// function to store the info from txt file to array
// when want to use array please call out this function first
```

```
void storeInfoInArray(int& totalMovie)
{
        cout << fixed << setprecision(2);
        int total = 0;
        int i = 0;
        ifstream moviefile;
        moviefile.open("MovieList.txt");
        if (moviefile.is_open())

                while (!moviefile.eof())
                {
                        getline(moviefile, title);
                        MovieTitle[i] = title;

                        moviefile >> price;
                        MoviePrice[i] = price;

                        moviefile >> seat;
                        MovieSeat[i] = seat;

                        moviefile.ignore();
                        getline(moviefile, describe);
                        MovieDesc[i] = describe;

                        moviefile >> sTime;
                        startTime[i] = sTime;

                        moviefile >> eTime;
                        endTime[i] = eTime;

                        i++;
                        total++;
                        moviefile.ignore();
```

```
            }
        totalMovie = total;
        moviefile.close();
}
```