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**Department of Computer Science and Engineering**

**KARNATAK LAW SOCIETY’S**

**GOGTE INSTITUTE OFTECHNOLOGY**

**UDYAMBAG, BELAGAVI-590008**



**Advanced C and OOPS Lab(16CS36)**

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**Guide:**  Prof. Parimal. T

**Movie Ticket Booking System**

**Problem Defination**

Implement a movie ticket booking system as a backend for a website(theatre) in c++ to demonstrate the various features of c++ with the following functionalities.

1) View movie list: This feature allows the user to check out the list of movies which are currently running in the cinema and the time slots available.

2) Purchase tickets: The motive behind this option is to let the user book tickets for a movie. The user can either complete the payment by card or cash.

3) Offers & Discounts: The user can avail offers and discounts on food and beverages if multiple tickets are bought or if the show is on a weekend.

4) Further Information: The users can contact us for further information about the ticket booking or to give feedback on their experiences.

**Abstract**

The main purpose of our online ticket booking system is to provide an alternate and convenient way for a customer to buy cinema tickets. It is an automatic system. After the data has been fed into the database, the staff does not need to do anything with the order once it is received through the system. In fact, there is similar system on the internet. The goals of our system are:

* To provide a anytime anyplace service for the customer
* To minimize the number of staff at the ticket box
* To promote the film on the internet
* To increase the profit by providing offers and discounts.

**Code**

**#include <iostream>**

**#include <fstream>**

**#include <conio.h>**

**#include <string>**

**#include <math.h>**

**#include <stdlib.h>**

**#include <stdio.h>**

**#include <process.h>**

**#include <time.h>**

**using namespace std;**

**class ticket{**

**public:char name[10];char cno[10];**

**} t;**

**class card : public ticket{**

**public:char address[50];char emailid[20];**

**} v;**

**void pay(int);**

**void random();**

**void card();**

**int main(){**

**system("CLS");**

**int ent, a, b, N, x, cardid;**

**char ans;**

**{time\_t t = time(NULL);**

**tm\* timePtr = localtime(&t);**

**cout << "Current local date and time is:"<<asctime(timePtr);**

**}**

**do{**

**cout<<"\n\t\t\t ----------------------------------";**

**cout<<"\n\t\t\t\t VENUGRAM CINEMAS";**

**cout<<"\n\t\t\t ----------------------------------";**

**cout<<"\n\t\t\t\t Welcome Customer!";**

**cout<<"\n\n\t\t\t\t <1> Now Showing:";**

**cout<<"\n\t\t\t\t <2> Book Tickets";**

**cout<<"\n\t\t\t\t <3> Offers and Discounts";**

**cout<<"\n\t\t\t\t <4> Further Information";**

**cout<<"\n\t\t\t\t <5> Exit \n\n";**

**cout<<"\t\t\t\tEnter Your Choice :"<<"\t";**

**cin>>ent;**

**switch(ent)**

**{**

**case 1:**

**system("CLS");**

**cout<<"\n\n\t\t\t\tThe Shows are :";**

**cout<<"\n\n\t\t\t\t 1. Avengers: Infinity War";**

**cout<<"\n\n\t\t\t\t 2. Antman And The Wasp";**

**cout<<"\n\n\t\t\t\t 3. Deadpool 2";**

**cout<<"\n\n\t\t\t\t 4. Venom";**

**cout<<"\n\n\t\t\t\t 5. Captain Marvel\n";**

**void clrscr();**

**break;**

**case 2: system("CLS");**

**cout<<"\n\n\t\t\t\tThe Shows are :";**

**cout<<"\n\n\t\t\t\t 1. Avengers: Infinity War";**

**cout<<"\n\n\t\t\t\t 2. Antman And The Wasp";**

**cout<<"\n\n\t\t\t\t 3. Deadpool 2";**

**cout<<"\n\n\t\t\t\t 4. Venom";**

**cout<<"\n\n\t\t\t\t 5. Captain Marvel\n";**

**cout<<"\n\t\t\t\tEnter Your Choice :"<<"\t";**

**cin>>a;**

**cout<<"\n\n\t\t\t\t The Timings for the selected show are:";**

**switch(a)**

**{**

**case 1:**

**system("CLS");**

**cout<<"\n\n\t\t\t\t Select the the timings: ";**

**cout<<"\n\t\t\t\t 1. 08:00";**

**cout<<"\n\t\t\t\t 2. 13:00";**

**cout<<"\n\t\t\t\t 3. 14:50";**

**cout<<"\n\t\t\t\t 4. 18:00";**

**cout<<"\n\t\t\t\t 5. 21:00";**

**cout<<"\n\t\t\t\t 6. 01:00 \n";**

**cout<<"\n\n\t\t\t\t Please select the timings: ";**

**cin>>b;**

**cout<<"\n\n\t\t\t\t Enter your name: ";**

**cin>>t.name;**

**cout<<"\n\n\t\t\t\t Enter your contact number: ";**

**cin>>t.cno;**

**cout<<"\n\n\t\t\t\t Enter the number of tickets you want to purchase: ";**

**int x;**

**cin>>x;**

**pay(x);**

**cout<<"\n\n\n\t\t\t\t Your ticket is here: ";**

**cout<<"\n\t\t\t\t Name :"<<t.name;**

**cout<<"\n\t\t\t\t Contact No :"<<t.cno;**

**cout<<"\n\t\t\t\t Show timings :";**

**switch(b)**

**{**

**case 1: cout<<"08:00";**

**break;**

**case 2: cout<<"13:00";**

**break;**

**case 3: cout<<"14:50";**

**break;**

**case 4: cout<<"18:00";**

**break;**

**case 5: cout<<"21:00";**

**break;**

**case 6: cout<<"01:00";**

**break;**

**}**

**cout<<"\n\n\t\t\t\t Do you want to choose another option(y/n)";**

**cin>>ans;**

**system("CLS");**

**break;**

**case 2:**

**system("CLS");**

**cout<<"\n\n\t\t\t\tSelect the the timings:";**

**cout<<"\n\t\t\t\t 1. 09:00";**

**cout<<"\n\t\t\t\t 2. 11:00";**

**cout<<"\n\t\t\t\t 3. 12:50";**

**cout<<"\n\t\t\t\t 4. 15:00";**

**cout<<"\n\t\t\t\t 5. 20:00";**

**cout<<"\n\t\t\t\t 6. 22:00";**

**cout<<"\n\t\t\t\t Please select the timings: ";**

**cin>>b;**

**cout<<"\n\n\t\t\t\t Enter your name: ";**

**cin>>t.name;**

**cout<<"\n\t\t\t\t Enter your contact number: ";**

**cin>>t.cno;**

**cout<<"\n\t\t\t\t Enter the number of tickets you want to purchase: ";**

**cin>>x;**

**pay(x);**

**cout<<"\n\n\t\t\t\t Your ticket is here:";**

**cout<<"\n\t\t\t\t Name :"<<t.name;**

**cout<<"\n\t\t\t\t Contact No :"<<t.cno;**

**cout<<"\n\t\t\t\tShow timings :";**

**switch(b)**

**{**

**case 1: cout<<"08:00";**

**break;**

**case 2: cout<<"13:00";**

**break;**

**case 3: cout<<"14:50";**

**break;**

**case 4: cout<<"18:00";**

**break;**

**case 5: cout<<"21:00";**

**break;**

**case 6: cout<<"01:00";**

**break;**

**}**

**cout<<"\n\n\t\t\t\t Do you want to choose another option(y/n)";**

**cin>>ans;**

**system("CLS");**

**break;**

**case 3:**

**system("CLS");**

**cout<<"\n\n\t\t\t\tSelect the the timings:";**

**cout<<"\n\t\t\t\t 1. 08:00";**

**cout<<"\n\t\t\t\t 2. 13:00";**

**cout<<"\n\t\t\t\t 3. 14:50";**

**cout<<"\n\t\t\t\t 4. 18:00";**

**cout<<"\n\t\t\t\t 5. 21:00";**

**cout<<"\n\t\t\t\t 6. 01:00";**

**cout<<"\n\t\t\t\t Please select the timings";**

**cin>>b;**

**cout<<"\n\t\t\t\t Enter your name: ";**

**cin>>t.name;**

**cout<<"\n\t\t\t\t Enter your contact number: ";**

**cin>>t.cno;**

**cout<<"\n\t\t\t\tEnter the number of tickets you want to purchase: ";**

**cin>>x;**

**pay(x);**

**cout<<"\n\n\t\t\t\t Your ticket is here: ";**

**cout<<"\n\t\t\t\t Name :"<<t.name;**

**cout<<"\n\t\t\t\t Contact No :"<<t.cno;**

**cout<<"\n\t\t\t\t Show timings :";**

**switch(b)**

**{**

**case 1: cout<<"09:00";**

**break;**

**case 2: cout<<"13:00";**

**break;**

**case 3: cout<<"14:50";**

**break;**

**case 4: cout<<"18:00";**

**break;**

**case 5: cout<<"21:00";**

**break;**

**case 6: cout<<"01:00";**

**break;**

**}**

**cout<<"\n\n\t\t\t\t Do you want to choose another option(y/n)";**

**cin>>ans;**

**system("CLS");**

**break;**

**case 4:**

**system("CLS");**

**cout<<"\n\n\t\t\t\tSelect the the timings: ";**

**cout<<"\n\t\t\t\t 1. 08:00";**

**cout<<"\n\t\t\t\t 2. 13:00";**

**cout<<"\n\t\t\t\t 3. 14:50";**

**cout<<"\n\t\t\t\t 4. 18:00";**

**cout<<"\n\t\t\t\t 5. 21:00";**

**cout<<"\n\t\t\t\t 6. 01:00";**

**cout<<"\n\t\t\t\t Please select the timings: ";**

**cin>>b;**

**cout<<"\n\t\t\t\t Enter your name: ";**

**cin>>t.name;**

**cout<<"\n\t\t\t\t Enter your contact number: ";**

**cin>>t.cno;**

**cout<<"\n\t\t\t\t Enter the number of tickets you want to purchase: ";**

**cin>>x;**

**pay(x);**

**cout<<"\n\n\t\t\t\t Your ticket is here: ";**

**cout<<"\n\t\t\t\t Name :"<<t.name;**

**cout<<"\n\t\t\t\t Contact No :"<<t.cno;**

**cout<<"\n\t\t\t\t Show timings :";**

**switch(b)**

**{**

**case 1: cout<<"08:00";**

**break;**

**case 2: cout<<"13:00";**

**break;**

**case 3: cout<<"14:50";**

**break;**

**case 4: cout<<"18:00";**

**break;**

**case 5: cout<<"21:00";**

**break;**

**case 6: cout<<"01:00";**

**break;**

**}**

**cout<<"\n\n\t\t\t\t Do you want to choose another option(y/n)";**

**cin>>ans;**

**system("CLS");**

**break;**

**case 5:**

**system("CLS");**

**cout<<"\n\n\t\t\t\tSelect the the timings:";**

**cout<<"\n\t\t\t\t 1. 08:00";**

**cout<<"\n\t\t\t\t 2. 13:00";**

**cout<<"\n\t\t\t\t 3. 14:50";**

**cout<<"\n\t\t\t\t 4. 18:00";**

**cout<<"\n\t\t\t\t 5. 21:00";**

**cout<<"\n\t\t\t\t 6. 01:00";**

**cout<<"\n\t\t\t\t Please select the timings: ";**

**cin>>b;**

**cout<<"\n\t\t\t\t Enter your name: ";**

**cin>>t.name;**

**cout<<"\n\t\t\t\t Enter your contact number: ";**

**cin>>t.cno;**

**cout<<"\n\t\t\t\t Enter the number of tickets you want to purchase: ";**

**cin>>x;**

**pay(x);**

**cout<<"\n \n\t\t\t\t Your ticket is here: ";**

**cout<<"\n\t\t\t\t Name :"<<t.name;**

**cout<<"\n\t\t\t\t Contact No :"<<t.cno;**

**cout<<"\n\t\t\t\t Show timings :";**

**switch(b)**

**{**

**case 1: cout<<"08:00";**

**break;**

**case 2: cout<<"13:00";**

**break;**

**case 3: cout<<"14:50";**

**break;**

**case 4: cout<<"18:00";**

**break;**

**case 5: cout<<"21:00";**

**break;**

**case 6: cout<<"01:00";**

**break;**

**}**

**cout<<"\n\n\t\t\t\t Do you want to choose another option(y/n)";**

**cin>>ans;**

**system("CLS");**

**break;**

**}break;**

**case 3: system("CLS");**

**cout<<"Choose an offer and we'll get you awesome deals!\n";**

**cout<<"\n\t\t\t\t 1. Buy 5 tickets and get a discount of 200!";**

**cout<<"\n\t\t\t\t 2. Buy 10 or more tickets and get a discount of 400!";**

**cout<<"\n\t\t\t\t 3. Buy 4 tickets and get 2 beverages of your choice at half the price! Show ticket at Food Counter to claim offer.";**

**cout<<"\n\t\t\t\t 4. Buy 4 tickets and get 2 burgers at half the price! Show ticket at Food Counter to claim offer.";**

**int off;**

**cin>>off;**

**switch(off)**

**{**

**case 1: cout<<"Buy 5 tickets and get a discount of 200!";**

**break;**

**case 2: cout<<"Buy 10 or more tickets and get a discount of 400!";**

**break;**

**case 3: cout<<"Buy 4 tickets and get 2 beverages of your choice at half the price! Show ticket at Food Counter to claim offer.";**

**break;**

**case 4: cout<<"Buy 4 tickets and get 2 burgers at half the price! Show ticket at Food Counter to claim offer.";**

**break;**

**}**

**cout<<"\n Do you want to choose another option(y/n)";**

**cin>>ans;**

**system("CLS");**

**break;**

**case 4: system("CLS");**

**cout<<"For further information about movies you can download our Application(from the Google Play Store or from the iOS App Store) or contact us at 01234567896523"; //Finding out more about our cinemas**

**cout<<"\n Do you want to choose another option(y/n)";**

**cin>>ans;**

**system("CLS");**

**break;**

**case 5:**

**system("CLS");**

**cout<<"\n\t\t\t\tThank You for booking tickets with us! Hope You enjoy the movie!\n\n\t\t\t\t";**

**system("PAUSE");**

**exit(0);**

**break;**

**}**

**}while(ans=='y'|| ans=='Y');**

**}**

**void pay(int a)**

**{**

**int normal, gold, amt[2],tmpamt[2],id;**

**time\_t t = time(NULL);**

**tm\* timePtr = localtime(&t);**

**fstream fin;**

**fin.open("card.dat", ios::in|ios::app);**

**fin>>id;**

**cout<<"\t\tThank you for selecting the show. Now we request you to select your type of seating \n\n\t\t\t\t 1.Normal Class \n\t\t\t\t OR \n\t\t\t\t 2. Gold Class: ";**

**int c;**

**cin>>c;**

**if(c==1)**

**{**

**cout<<"\n\n\t\t\t\tYou are booking for a Normal show \n\n\t\t\t\t";**

**system("PAUSE");**

**system("CLS");**

**tmpamt[1] = a \* 250;**

**if(a>5 && a<10)**

**{**

**tmpamt[1]-=200;**

**}**

**else if(a>10)**

**{**

**tmpamt[1]-=400;**

**}**

**amt[1]=tmpamt[1];**

**cout<<"\n\t\t\t\tChoose payment method: ";**

**cout<<"\n\t\t\t\t1. Card\t 2. Cash ";**

**int rep;**

**cin>>rep;**

**cout<<"\n\t\t\t\t"<<"Please Pay :"<<amt[1]<<"\n";**

**switch(rep)**

**{**

**case 1: cout<<"\t\t\t\tName of the card holder: ";**

**char cardname[10];getchar();**

**cin>>(cardname);**

**cout<<"\n\t\t\t\tEnter the card number: \n";**

**char Card[16];**

**cin>>(Card);**

**cout<<"\t\t\t\tExpiry(MM/YYYY)";**

**int expirymm,expiryyy;**

**cin>>expirymm;**

**cout<<"\t\t\t\t/";**

**cin>>expiryyy;**

**while(expirymm<(timePtr->tm\_mon) || expiryyy<(timePtr->tm\_year + 1900)){**

**if(expirymm<=(timePtr->tm\_mon))**

**{**

**cout<<"\t\t\t\tEnter the month again: ";**

**cin>>expirymm;**

**}**

**if(expiryyy<(timePtr->tm\_year + 1900))**

**{**

**cout<<"\t\t\t\tPlease enter a valid year: ";**

**cin>>expiryyy;**

**}**

**};**

**char password[3],vh;**

**int h;**

**puts("\t\t\t\tEnter the CVV/CVV2: ");**

**while (1)**

**{**

**if (h<0)**

**h=0;**

**vh=getch();**

**if (vh==13)**

**break;**

**if (vh==8)**

**{**

**putch(NULL);**

**putch(NULL);**

**putch(NULL);**

**h--;**

**continue;**

**}**

**password[h++]=vh;**

**vh='\*';**

**putch(vh);**

**};**

**password[h]=='\0';**

**}**

**}**

**else**

**{**

**cout<<"\n\n\t\t\t\tYou are booking for a Gold Show \n\t\t\t\t";**

**system("PAUSE");**

**system("CLS");**

**tmpamt[2] = a \* 500;**

**if(a>5 && a<10)**

**{**

**tmpamt[2]-=200;**

**}**

**else if(a>10)**

**{**

**tmpamt[2]-=400;**

**}**

**amt[2]=tmpamt[2];**

**cout<<"\n\t\t\t\tWant to pay by Card(y/n): ";**

**char rep;**

**cin>>rep;**

**cout<<"\n\t\t\t\t"<<"Please Pay :"<<amt[2]<<"\n";**

**if (rep=='y'||rep=='Y')**

**{**

**cout<<"\t\t\t\tName of the card holder: ";**

**char n[10];**

**gets(n);**

**cout<<"\n\t\t\t\tEnter the card number: ";**

**char Card[16];**

**gets(Card);**

**cout<<"\n\t\t\t\tExpiry(MM/YY): ";**

**int expirymm, expiryyy;**

**cin>>expirymm;**

**cout<<"\n/";**

**cin>>expiryyy;**

**while(expirymm<(timePtr->tm\_mon) || expiryyy<(timePtr->tm\_year + 1900)){**

**if(expirymm<=(timePtr->tm\_mon))**

**{**

**cout<<"\n\t\t\t\tEnter the month again: ";**

**cin>>expirymm;**

**}**

**if(expiryyy<(timePtr->tm\_year + 1900))**

**{**

**cout<<"\n\t\t\t\tPlease enter a valid year: ";**

**cin>>expiryyy;**

**}**

**};**

**char password[3],vh;**

**int h;**

**puts("\n\t\t\t\tEnter the CVV/CVV2: ");**

**while (1)**

**{**

**if (h<0)**

**h=0;**

**vh=getch();**

**if (vh==13)**

**break;**

**if (vh==8)**

**{**

**putch(NULL);**

**putch(NULL);**

**putch(NULL);**

**h--;**

**continue;**

**}**

**password[h++]=vh;**

**vh='\*';**

**putch(vh);**

**};**

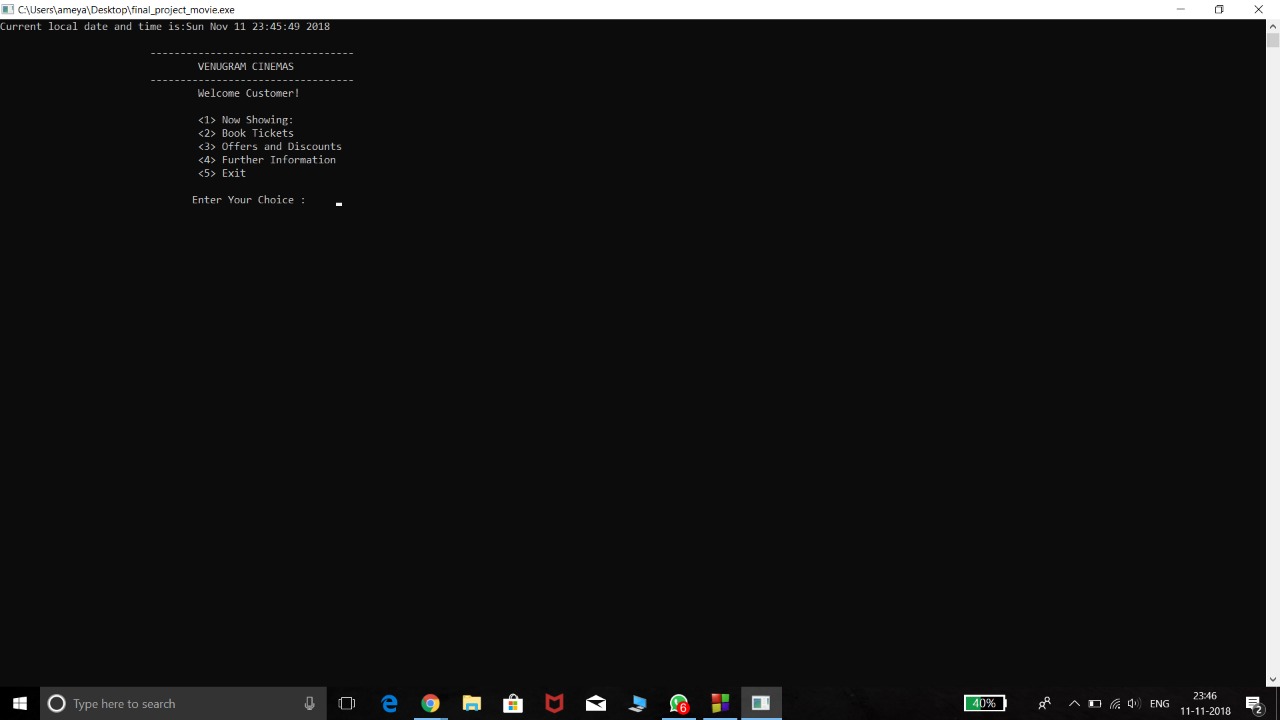
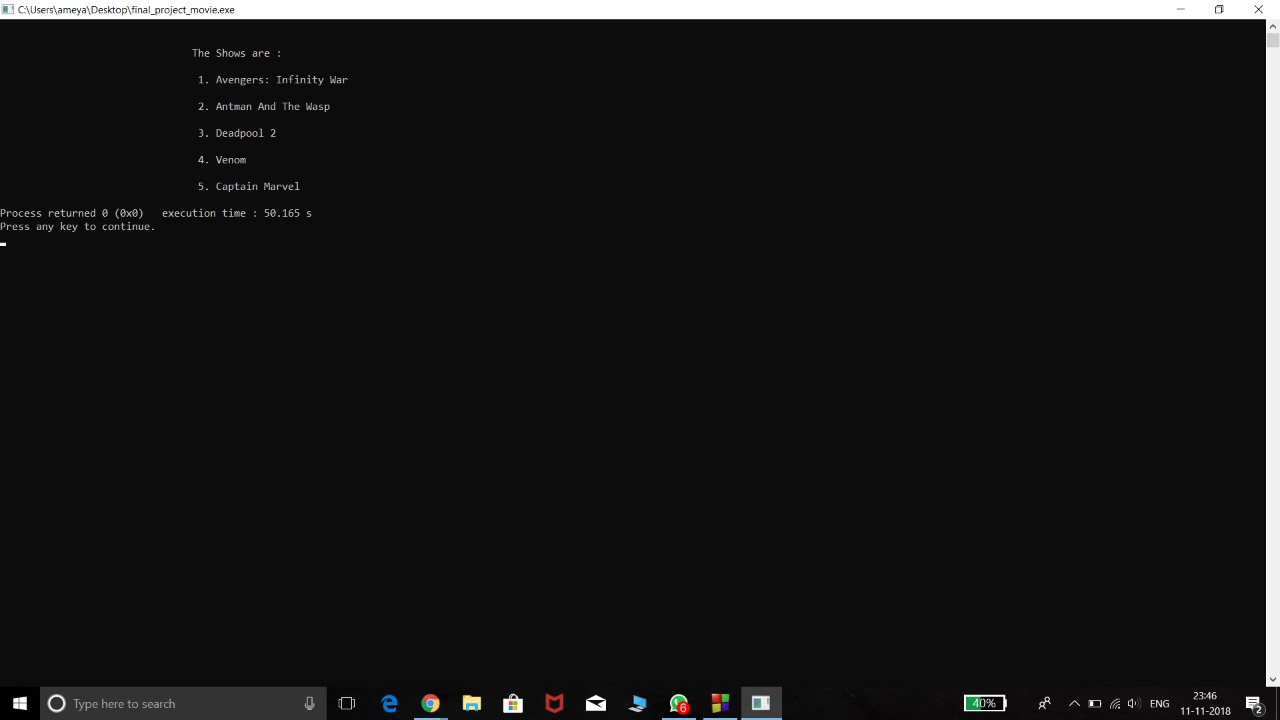
**password[h]=='\0';**

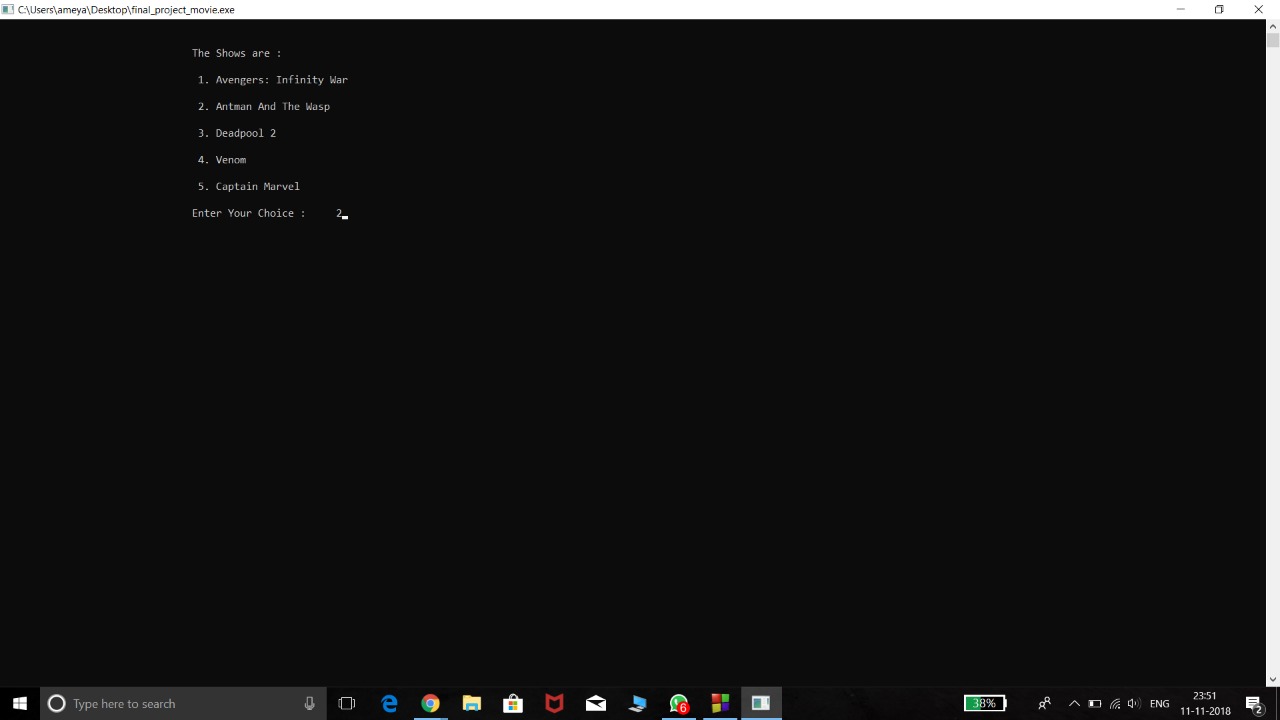
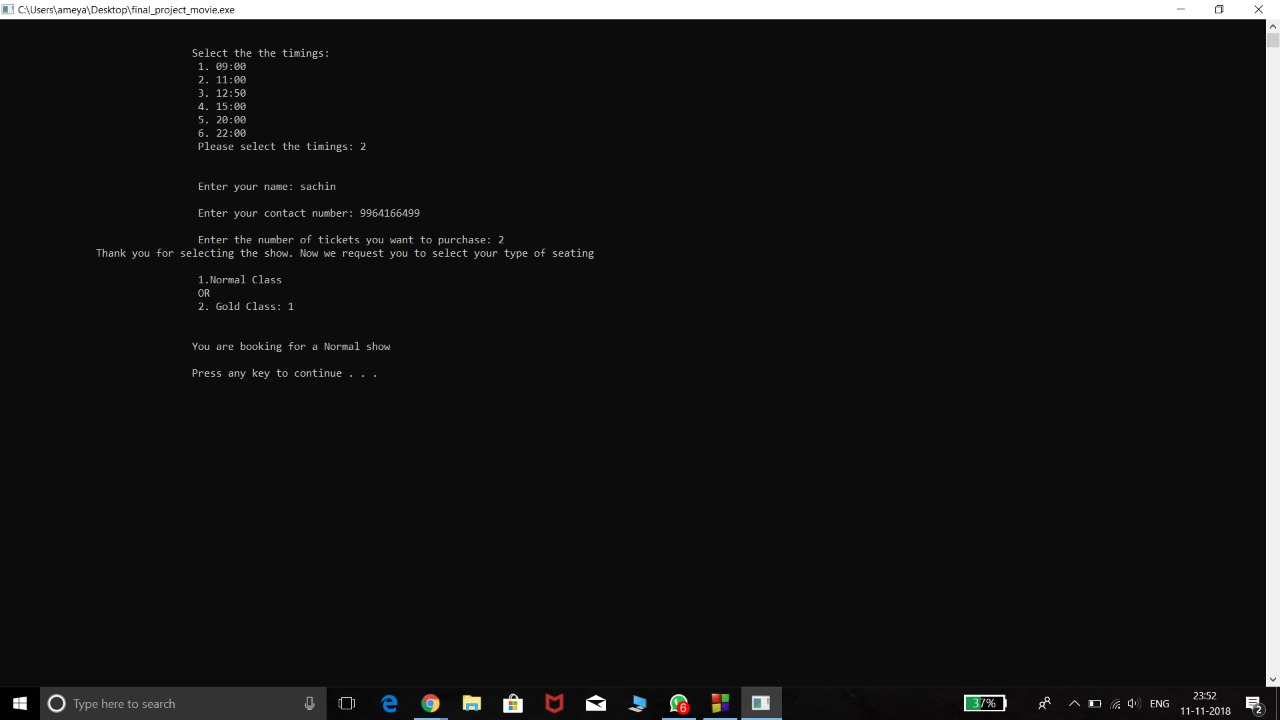
**}**

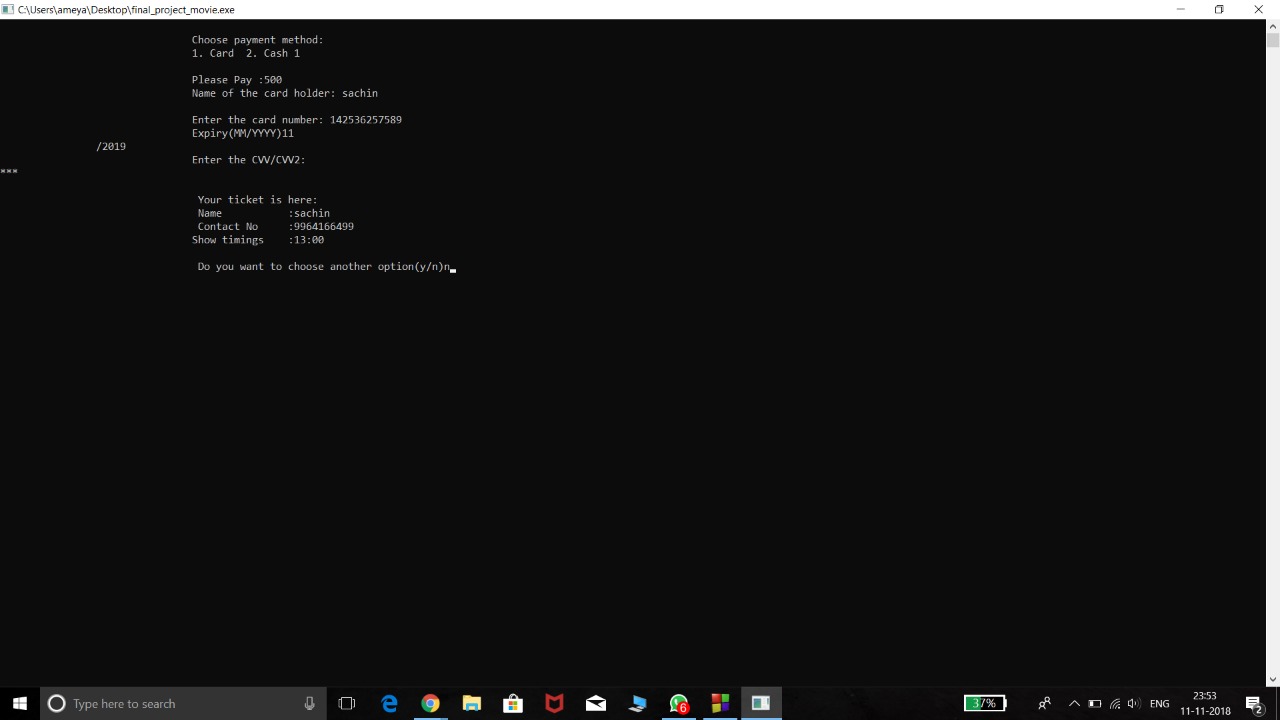
**};**

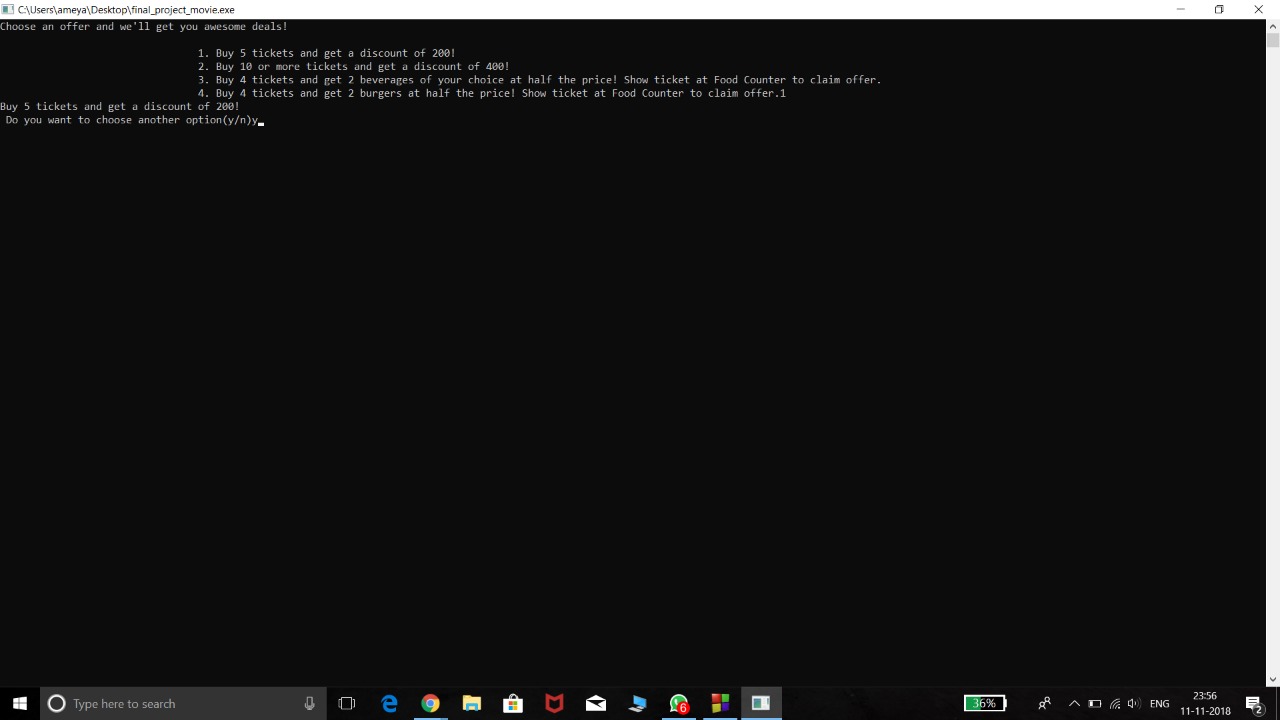
**}**

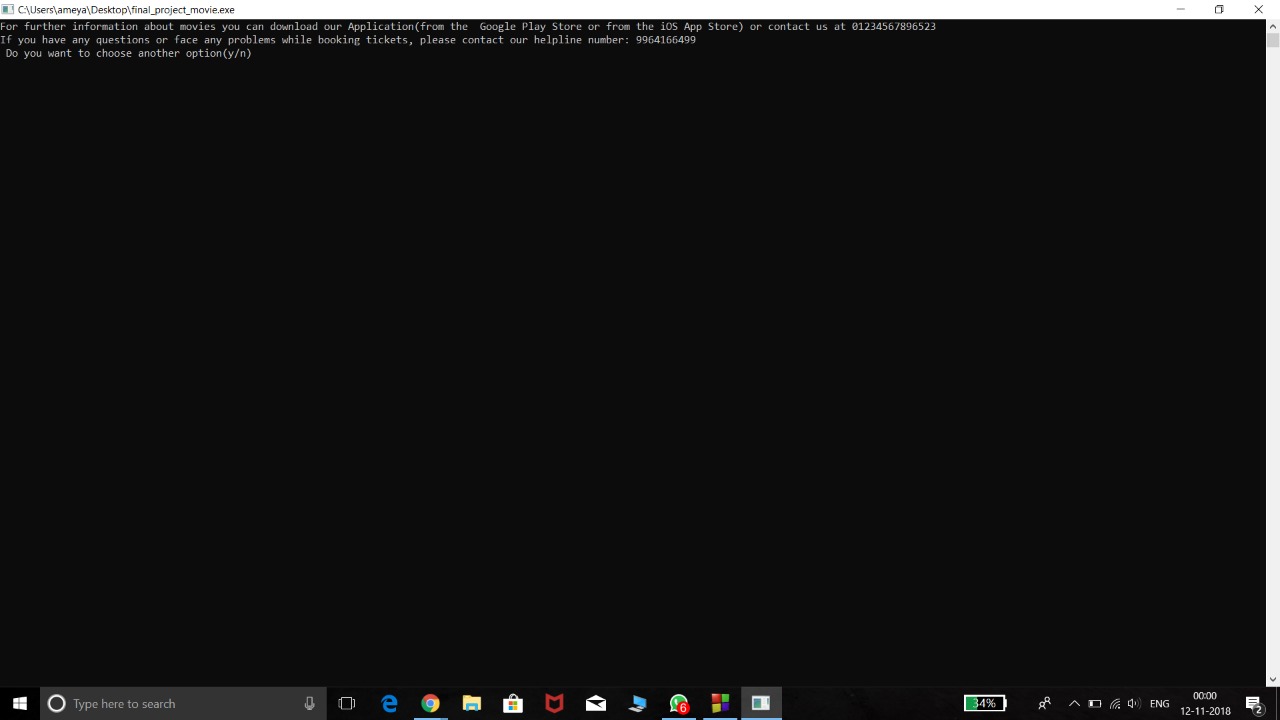
**Input and output**

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