Project Description

CLASS: X

Subject: Computer Applications

Type : Project – Software Design and Development

Topic: ICSE Board Project

Name.................................. Sec.......... Date...............

Topic: Movie ticket booking system

Using BlueJ and Java, prepare a Movie ticket booking system according to the following criteria:

Screen 1:

Display the following:

a. System update

b. List of movies with show timings

c. Book a ticket

d. Exit

Depending upon user's choice, show him the following screens:

Screen 2 (a) (if the user chooses option a)

a. Add a new movie

b. Update movie/show timings

c. Delete a movie

d. Return to previous menu

e. Exit

Screen 2 (b) (if the user chooses option b)

Display the list of movies, language, audi and show timings.

Screen 2 (c) (if the user chooses option c)

Display movie name, audi, no. of seats available, class.Then take movie name, show time, date(date should be future date), class, no. of required seats as input , check for availability of seats and then display the amount due.

Prepare and display the movie ticket. The ticket should have the following details:

1. Movie name
2. Show timing
3. Audi
4. Date and time of show
5. No. of seats booked
6. Class
7. Total amount

Create a main method to access all the methods and display the output.

Your project should include:

1. Acknowledgement
2. Problem description
3. Logic description
4. List of Variables
5. Program Listing
6. Input and Output Listing
7. Bibliography

Submission date for soft copy: 04/07/2017

Only when soft copy has been checked and approved, you will take the print of programs and make your hard copy of project.

Submission date for hard copy: 31/08/2017

Code

Class: Store

```
import java.io.*;

public class Store implements java.io.Serializable

{
   public String formatAudi1 [][];
   public String formatAudi3 [][];
   public String D1 [][];
   public String D2 [][];
   public String D3 [][];
   public String D4 [][];
   public String D5 [][];
   public String D6 [][];
   public String D7 [][];
   public String movieList [][];
   public int code;

         public static void main(String [] args)
          {
                  Store s = new Store();
                  s.code = 1;
                  s.formatAudi1 = new String [17][14];
                  s.formatAudi3 = new String [12][12];
                  s.D1 = new String [2359][4];
                  s.D2 = new String [2359][4];
                  s.D3 = new String [2359][4];
                  s.D4 = new String [2359][4];
                  s.D5 = new String [2359][4];
                  s.D6 = new String [2359][4];
                  s.D7 = new String [2359][4];
                  s.movieList = new String [50][4];
                  for ( int i = 0,j=0,c=0;c<9436;++c)
                  {         s.D1 [i][j] = "";s.D7 [i][j] = "";s.D6 [i][j] = "";
                            s.D2 [i][j] = "";s.D5 [i][j] = "";
                            s.D3 [i][j] = "";s.D4 [i][j] = "";
                            if(j==3){++i;j=0;}else{++j;}}
                  for(int i = 0, j = 0 , c = 0; c < 200 ; ++c )
                  {         s.movieList [i][j] = "";
                            if(i==49)
                             {i=0;++j;}else{ ++i;}}
                   s.movieList [0][0] = "Movie Name          ";
                   s.movieList [0][1] = "Lang";
                   s.movieList [0][2] = "Mins";
                   try {
                            FileOutputStream fileOut = new FileOutputStream("Data.txt");
                            ObjectOutputStream out = new ObjectOutputStream(fileOut);
                            out.writeObject(s); out.close();fileOut.close(); System.out.print("\u000C");
                            }catch(IOException i) { i.printStackTrace();System.out.printf("ERROR 000");}
                  Preset P = new Preset ();   AudiFormat Af= new AudiFormat();
                  int ran = Af.Audi_G();   ran= Af.Audi_3();  ran = P.preset();
                  System.out.println("System ready to use");}
}
```

Class: Preset

```
import java.io.*;
public class Preset
{
   public int preset ()
   {
      Store s = null;
      try {
         FileInputStream fileIn = new FileInputStream("Data.txt");
         ObjectInputStream in = new ObjectInputStream(fileIn);
         s = (Store) in.readObject();
         in.close();
         fileIn.close();
      }catch(IOException i) {
         i.printStackTrace();
         System.out.println("Store not found : ERROR 002");
         try{
            Thread.sleep(3000);}
         catch ( InterruptedException ex){Thread.currentThread().interrupt();}
         System.out.print("\u000C");
         return 1;
      }catch(ClassNotFoundException c) {
         System.out.println("Store not found : ERROR 002");
         c.printStackTrace();
         try{
            Thread.sleep(3000);}
         catch ( InterruptedException ex){Thread.currentThread().interrupt();}
         System.out.print("\u000C");
         return 1;
      }

      s.movieList [1][0] = "Avenger:Infinity War";s.movieList [6][0] = "The Golden Circle";
      s.movieList [1][1] = "Eng 3D";s.movieList [6][1] = "Eng";
      s.movieList [1][2] = "107";s.movieList [6][2] = "115";
      s.movieList [1][3] = "1";s.movieList [6][3] = "8";
      s.movieList [2][0] = "Jab Harry Met Sejal";s.movieList [7][0] = "Secret Superstar";
      s.movieList [2][1] = "Hindi";s.movieList [7][1] = "Hindi";
      s.movieList [2][2] = "121";s.movieList [7][2] = "105";
      s.movieList [2][3] = "2";s.movieList [7][3] = "4";
      s.movieList [3][0] = "Spiderman Homecoming";s.movieList [8][0] = "Lego:Ninjago Movie";
      s.movieList [3][1] = "Eng 3D";s.movieList [8][1] = "Eng 3D";
      s.movieList [3][2] = "120";s.movieList [8][2] = "125";
      s.movieList [3][3] = "5";s.movieList [8][3] = "3";
      s.movieList [4][0] = "Toilet Ek Prem Katha";s.movieList [9][0] = "The Emoji Movie";
      s.movieList [4][1] = "Hindi";s.movieList [9][1] = "Eng 3D";
      s.movieList [4][2] = "133";s.movieList [9][2] = "95";
      s.movieList [4][3] = "7";s.movieList [9][3] = "9";
      s.movieList [5][0] = "The Death Cure";s.movieList [10][0] = "Annabelle Creation";
      s.movieList [5][1] = "Eng";s.movieList [10][1] = "Eng 3D";
      s.movieList [5][2] = "95";s.movieList [10][2] = "97";
      s.movieList [5][3] = "6";s.movieList [10][3] = "10";
      s.D1 [830][1] = "1.S.";
      s.D1 [1017][1] = "1.E";
```

```
s.D1 [1215][1] = "7.S.";
s.D1 [1428][1] = "7.E";
s.D1 [1500][1] = "5.S.";
s.D1 [1700][1] = "5.E";
s.D1 [1820][1] = "2.S.";
s.D1 [2021][1] = "2.E";
s.D1 [2140][1] = "10.S.";
s.D1 [2317][1] = "10.E";
s.D2 [830][1] = "8.S.";
s.D2 [1025][1] = "8.E";
s.D2 [1500][1] = "5.S.";
s.D2 [1800][1] = "5.E";
s.D2 [1820][1] = "2.S.";
s.D2 [2021][1] = "2.E";
s.D2 [2140][1] = "5.S.";
s.D2 [2340][1] = "5.E";
s.D3 [830][1] = "1.S.";
s.D3 [1017][1] = "1.E";
s.D3 [1215][1] = "7.S.";
s.D3 [1428][1] = "7.E";
s.D3 [1820][1] = "9.S.";
s.D3 [1955][1] = "9.E";
s.D4 [830][1] = "1.S.";
s.D4 [1017][1] = "1.E";
s.D4 [1215][1] = "7.S.";
s.D4 [1448][1] = "7.E";
s.D4 [1500][1] = "4.S.";
s.D4 [1645][1] = "4.E";
s.D4 [2140][1] = "10.S.";
s.D4 [2317][1] = "10.E";
s.D5 [830][1] = "8.S.";
s.D5 [1025][1] = "8.E";
s.D5 [1820][1] = "4.S.";
s.D5 [2005][1] = "4.E";
s.D5 [2140][1] = "10.S.";
s.D5 [2317][1] = "10.E";
s.D6 [830][1] = "6.S.";
s.D6 [1005][1] = "6.E";
s.D6 [1215][1] = "3.S.";
s.D6 [1420][1] = "3.E";
s.D6 [1500][1] = "2.S.";
s.D6 [1701][1] = "2.E";
s.D6 [1820][1] = "4.S.";
s.D6 [2005][1] = "4.E";
s.D7 [830][1] = "6.S.";
s.D7 [1005][1] = "6.E";
s.D7 [1820][1] = "4.S.";
s.D7 [2005][1] = "4.E";
s.D7 [2140][1] = "5.S.";
s.D7 [2340][1] = "5.E";

s.D1 [1000][2] = "3.S.";
s.D1 [1205][2] = "3.E";
s.D1 [1330][2] = "8.S.";
s.D1 [1525][2] = "8.E";
s.D1 [1615][2] = "4.S.";
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```
s.D1 [1700][2] = "4.E";
s.D1 [1850][2] = "6.S.";
s.D1 [2025][2] = "6.E";
s.D1 [2130][2] = "5.S.";
s.D1 [2330][2] = "5.E";
s.D2 [1000][2] = "1.S.";
s.D2 [1147][2] = "1.E";
s.D2 [1330][2] = "9.S.";
s.D2 [1505][2] = "9.E";
s.D2 [1615][2] = "6.S.";
s.D2 [1750][2] = "6.E";
s.D2 [1850][2] = "4.S.";
s.D2 [2005][2] = "4.E";
s.D2 [2130][2] = "10.S.";
s.D2 [2307][2] = "10.E";
s.D3 [1000][2] = "3.S.";
s.D3 [1205][2] = "3.E";
s.D3 [1330][2] = "8.S.";
s.D3 [1525][2] = "8.E";
s.D3 [1615][2] = "5.S.";
s.D3 [1815][2] = "5.E";
s.D3 [1850][2] = "2.S.";
s.D3 [2051][2] = "2.E";
s.D3 [2130][2] = "10.S.";
s.D3 [2307][2] = "10.E";
s.D4 [1000][2] = "3.S.";
s.D4 [1205][2] = "3.E";
s.D4 [1330][2] = "8.S.";
s.D4 [1525][2] = "8.E";
s.D4 [1615][2] = "5.S.";
s.D4 [1815][2] = "5.E";
s.D4 [1850][2] = "9.S.";
s.D4 [2025][2] = "9.E";
s.D4 [2130][2] = "6.S.";
s.D4 [2305][2] = "6.E";
s.D5 [1000][2] = "1.S.";
s.D5 [1147][2] = "1.E";
s.D5 [1330][2] = "9.S.";
s.D5 [1505][2] = "9.E";
s.D5 [1615][2] = "7.S.";
s.D5 [1828][2] = "7.E";
s.D5 [1850][2] = "2.S.";
s.D5 [2051][2] = "2.E";
s.D5 [2130][2] = "6.S.";
s.D5 [2305][2] = "6.E";
s.D6 [1330][2] = "9.S.";
s.D6 [1505][2] = "9.E";
s.D6 [1615][2] = "7.S.";
s.D6 [1828][2] = "7.E";
s.D6 [1850][2] = "5.S.";
s.D6 [2050][2] = "5.E";
s.D6 [2130][2] = "10.S.";
s.D6 [2307][2] = "10.E";
s.D7 [1330][2] = "9.S.";
s.D7 [1505][2] = "9.E";
s.D7 [1615][2] = "2.S.";
```

```
s.D7 [1816][2] = "2.E";
s.D7 [2130][2] = "10.S.";
s.D7 [2307][2] = "10.E";

s.D1 [900][3] = "5.S.";
s.D1 [1100][3] = "5.E";
s.D1 [1230][3] = "5.S.";
s.D1 [1430][3] = "5.E";
s.D1 [1600][3] = "4.S.";
s.D1 [1745][3] = "4.E";
s.D1 [2100][3] = "10.S.";
s.D1 [2237][3] = "10.E";
s.D2 [900][3] = "10.S.";
s.D2 [1037][3] = "10.E";
s.D2 [1230][3] = "4.S.";
s.D2 [1415][3] = "4.E";
s.D2 [1600][3] = "6.S.";
s.D2 [1735][3] = "6.E";
s.D2 [2100][3] = "2.S.";
s.D2 [2301][3] = "2.E";
s.D3 [900][3] = "2.S.";
s.D3 [1101][3] = "2.E";
s.D3 [1230][3] = "4.S.";
s.D3 [1415][3] = "4.E";
s.D3 [1600][3] = "5.S.";
s.D3 [1800][3] = "5.E";
s.D3 [2100][3] = "9.S.";
s.D3 [2235][3] = "9.E";
s.D4 [900][3] = "10.S.";
s.D4 [1037][3] = "10.E";
s.D4 [1230][3] = "4.S.";
s.D4 [1415][3] = "4.E";
s.D4 [1600][3] = "5.S.";
s.D4 [1800][3] = "5.E";
s.D4 [2100][3] = "9.S.";
s.D4 [2235][3] = "9.E";
s.D5 [900][3] = "9.S.";
s.D5 [1035][3] = "9.E";
s.D5 [1230][3] = "6.S.";
s.D5 [1405][3] = "6.E";
s.D5 [1600][3] = "2.S.";
s.D5 [1801][3] = "2.E";
s.D5 [2100][3] = "5.S.";
s.D5 [2300][3] = "5.E";
s.D6 [900][3] = "7.S.";
s.D6 [1113][3] = "7.E";
s.D6 [1230][3] = "2.S.";
s.D6 [1431][3] = "2.E";
s.D6 [1600][3] = "6.S.";
s.D6 [1735][3] = "6.E";
s.D6 [2100][3] = "10.S.";
s.D6 [2237][3] = "10.E";
s.D7 [900][3] = "9.S.";
s.D7 [1035][3] = "9.E";
s.D7 [1230][3] = "6.S.";
s.D7 [1405][3] = "6.E";
```

```
        s.D7 [1600][3] = "7.S.";
        s.D7 [1813][3] = "7.E";
        s.D7 [2100][3] = "5.S.";
        s.D7 [2300][3] = "5.E";

        try {
            FileOutputStream fileOut =
                new FileOutputStream("Data.txt");
            ObjectOutputStream out = new ObjectOutputStream(fileOut);
            out.writeObject(s);
            out.close();
            fileOut.close();
            System.out.print("\u000C");
            System.out.printf("");
        }catch(IOException i) {
            i.printStackTrace();
            System.out.printf("ERROR 000");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        return 1;
    }
}
```

Class: AudiFormat

```
import java.io.*;
public class AudiFormat
{

    public int Audi_G ()
    {
            Store s = null;
             try {
                         FileInputStream fileIn = new FileInputStream("Data.txt");
                        ObjectInputStream in = new ObjectInputStream(fileIn);
                         s = (Store) in.readObject();
                        in.close();
                        fileIn.close();
             }catch(IOException i) {
                         i.printStackTrace();
                        System.out.println("Store not found : ERROR 002");
            try{
                        Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                        System.out.print("\u000C");
                        return 1;
            }catch(ClassNotFoundException c) {
                        System.out.println("Store not found : ERROR 002");
                        c.printStackTrace();
                        try{
                                    Thread.sleep(3000);}
                        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                                    System.out.print("\u000C");
                                     return 1;
                         }

             for(int i = 0, j = 0 , c = 0;c<238;++c)
              {
               s.formatAudi1 [i][j] = "[]";
              if(i==16)
              {
                          i=0;
                          ++j;
                        }else{
                          ++i;}
             }

      s.formatAudi1 [0][0] = "  "; s.formatAudi1 [0][1] = "  "; s.formatAudi1 [0][2] = "A ";
      s.formatAudi1 [0][3] = "B "; s.formatAudi1 [0][4] = "C "; s.formatAudi1 [0][5] = "  ";
      s.formatAudi1 [0][6] = "D "; s.formatAudi1 [0][7] = "E "; s.formatAudi1 [0][8] = "F ";
      s.formatAudi1 [0][9] = "G "; s.formatAudi1 [0][10] = "H ";s.formatAudi1 [0][11] = "  ";
      s.formatAudi1 [0][12] = "**";s.formatAudi1 [0][13] = "**";
      s.formatAudi1 [2][2] = "# ";s.formatAudi1 [3][2] = "# ";s.formatAudi1 [4][2] = "# ";
      s.formatAudi1 [5][2] = "# ";
      s.formatAudi1 [6][2]= "# ";s.formatAudi1 [10][3]= "# ";s.formatAudi1 [5][4]= "# ";
      s.formatAudi1 [7][2]= "# ";s.formatAudi1 [11][3]= "# ";s.formatAudi1 [6][4]= "# ";
      s.formatAudi1 [12][2]= "# ";s.formatAudi1 [12][3]= "# ";s.formatAudi1 [7][4]= "# ";
      s.formatAudi1 [13][2]= "# ";s.formatAudi1 [14][3]= "# ";s.formatAudi1 [13][4]= "# ";
```

```
s.formatAudi1 [4][3]= "# ";s.formatAudi1 [15][3]= "# ";s.formatAudi1 [14][4]= "# ";
s.formatAudi1 [6][3]= "# ";s.formatAudi1 [4][4]= "# ";s.formatAudi1 [15][4]= "# ";
s.formatAudi1 [7][3]= "# ";
s.formatAudi1 [3][6]= "# ";s.formatAudi1 [3][7]= "# ";s.formatAudi1 [3][8]= "# ";
s.formatAudi1 [4][6]= "# ";s.formatAudi1 [6][7]= "# ";s.formatAudi1 [4][8]= "# ";
s.formatAudi1 [7][6]= "# ";s.formatAudi1 [8][7]= "# ";s.formatAudi1 [6][8]= "# ";
s.formatAudi1 [8][6]= "# ";s.formatAudi1 [9][7]= "# ";s.formatAudi1 [7][8]= "# ";
s.formatAudi1 [9][6]= "# ";s.formatAudi1 [10][7]= "# ";s.formatAudi1 [8][8]= "# ";
s.formatAudi1 [10][6]= "# ";s.formatAudi1 [11][7]= "# ";s.formatAudi1 [9][8]= "# ";
s.formatAudi1 [13][6]= "# ";s.formatAudi1 [13][7]= "# ";s.formatAudi1 [14][8]= "# ";
s.formatAudi1 [14][6]= "# ";s.formatAudi1 [14][7]= "# ";s.formatAudi1 [15][8]= "# ";
s.formatAudi1 [2][9]= "# ";s.formatAudi1 [7][9]= "# ";s.formatAudi1 [13][9]= "# ";
s.formatAudi1 [3][9]= "# ";s.formatAudi1 [8][9]= "# ";s.formatAudi1 [14][9]= "# ";
s.formatAudi1 [4][9]= "# ";s.formatAudi1 [9][9]= "# ";
s.formatAudi1 [1][1] = "  "; s.formatAudi1 [7][1] = "6 "; s.formatAudi1 [12][1] = "11";
s.formatAudi1 [2][1] = "1 "; s.formatAudi1 [8][1] = "7 "; s.formatAudi1 [13][1] = "12";
s.formatAudi1 [3][1] = "2 "; s.formatAudi1 [9][1] = "8 "; s.formatAudi1 [14][1] = "13";
s.formatAudi1 [4][1] = "3 "; s.formatAudi1 [10][1] = "9 "; s.formatAudi1 [15][1] = "14";
s.formatAudi1 [5][1] = "4 "; s.formatAudi1 [11][1] = "10"; s.formatAudi1 [16][1] = "  ";
s.formatAudi1 [6][1] = "5 ";
s.formatAudi1 [1][11] = "  ";s.formatAudi1 [7][11] = "  ";s.formatAudi1 [12][11] = "  ";
s.formatAudi1 [2][11] = "  ";s.formatAudi1 [8][11] = "  ";s.formatAudi1 [13][11] = "  ";
s.formatAudi1 [3][11] = "  ";s.formatAudi1 [9][11] = "  ";s.formatAudi1 [14][11] = "  ";
s.formatAudi1 [4][11] = "  ";s.formatAudi1 [10][11] = "  ";s.formatAudi1 [15][11] = "  ";
s.formatAudi1 [5][11] = "  ";s.formatAudi1 [11][11] = "  ";s.formatAudi1 [16][11] = "  ";
s.formatAudi1 [6][11] = "  ";
s.formatAudi1 [1][12] = "**";s.formatAudi1 [7][12] = "**";s.formatAudi1 [12][12] = "**";
s.formatAudi1 [2][12] = "**";s.formatAudi1 [8][12] = "**";s.formatAudi1 [13][12] = "**";
s.formatAudi1 [3][12] = "**";s.formatAudi1 [9][12] = "**";s.formatAudi1 [14][12] = "**";
s.formatAudi1 [4][12] = "**";s.formatAudi1 [10][12] = "**";s.formatAudi1 [15][12] = "**";
s.formatAudi1 [5][12] = "**";s.formatAudi1 [11][12] = "**";s.formatAudi1 [16][12] = "**";
s.formatAudi1 [6][12] = "**********************************";
s.formatAudi1 [1][0] = "  ";s.formatAudi1 [7][0] = "";s.formatAudi1 [12][0] = "";
s.formatAudi1 [2][0] = "  ";s.formatAudi1 [8][0] = "";s.formatAudi1 [13][0] = "";
s.formatAudi1 [3][0] = "  ";s.formatAudi1 [9][0] = "";s.formatAudi1 [14][0] = "";
s.formatAudi1 [4][0] = "    ";s.formatAudi1 [10][0] = "";s.formatAudi1 [15][0] = "";
s.formatAudi1 [5][0] = "";s.formatAudi1 [11][0] = "";s.formatAudi1 [16][0] = "";
s.formatAudi1 [6][0] = "PLATINUM ( 240 /- ) ";
s.formatAudi1 [1][5] = "  ";s.formatAudi1 [7][5] = "";s.formatAudi1 [12][5] = "";
s.formatAudi1 [2][5] = "  ";s.formatAudi1 [8][5] = "";s.formatAudi1 [13][5] = "";
s.formatAudi1 [3][5] = "  ";s.formatAudi1 [9][5] = "";s.formatAudi1 [14][5] = "";
s.formatAudi1 [4][5] = "    ";s.formatAudi1 [10][5] = "";s.formatAudi1 [15][5] = "";
s.formatAudi1 [5][5] = "";s.formatAudi1 [11][5] = "";s.formatAudi1 [16][5] = "";
s.formatAudi1 [6][5] = "EXECUTIVE ( 190 /- )";
s.formatAudi1 [1][13] = "**";s.formatAudi1 [7][13] = "";s.formatAudi1 [12][13] = "";
s.formatAudi1 [2][13] = "***";s.formatAudi1 [8][13] = "";s.formatAudi1 [13][13] = "";
s.formatAudi1 [3][13] = "****************";
s.formatAudi1 [9][13] = "";s.formatAudi1 [14][13] = "*";
s.formatAudi1 [4][13] = " SCREEN THIS WAY ";
s.formatAudi1 [10][13] = "";s.formatAudi1 [15][13] = "**********************";
s.formatAudi1 [5][13] = "";s.formatAudi1 [11][13] = "";s.formatAudi1 [16][13] = "**";
s.formatAudi1 [6][13] = "";
s.formatAudi1 [16][0] = ""; s.formatAudi1 [16][1] = ""; s.formatAudi1 [16][2] = "";
s.formatAudi1 [16][3] = ""; s.formatAudi1 [16][4] = ""; s.formatAudi1 [16][5] = "";
s.formatAudi1 [16][6] = ""; s.formatAudi1 [16][7] = ""; s.formatAudi1 [16][8] = "";
s.formatAudi1 [16][9] = ""; s.formatAudi1 [16][10] = "";s.formatAudi1 [16][11] = "";
```

```
  s.formatAudi1 [16][12] = "";s.formatAudi1 [16][13] = "";
  s.formatAudi1 [8][2] = "  ";s.formatAudi1 [8][3] = "  ";s.formatAudi1 [8][4] = "  ";
  s.formatAudi1 [9][2] = "  ";s.formatAudi1 [9][3] = "  ";s.formatAudi1 [9][4] = "  ";
  s.formatAudi1 [5][6] = "  ";s.formatAudi1 [5][8] = "  ";s.formatAudi1 [5][10] = "  ";
  s.formatAudi1 [5][7] = "  ";s.formatAudi1 [5][9] = "  ";
  s.formatAudi1 [12][6] = "  ";s.formatAudi1 [12][8] = "  ";s.formatAudi1 [12][10] = "  ";
  s.formatAudi1 [12][7] = "  ";s.formatAudi1 [12][9] = "  ";
  s.formatAudi1 [1][1] = "  ";s.formatAudi1 [1][5] = "  ";s.formatAudi1 [1][8] = "  ";
  s.formatAudi1 [1][2] = "  ";s.formatAudi1 [1][6] = "  ";s.formatAudi1 [1][9] = "  ";
  s.formatAudi1 [1][3] = "  ";s.formatAudi1 [1][7] = "  ";s.formatAudi1 [1][10] = "  ";
  s.formatAudi1 [1][4] = "  ";


  try {
          FileOutputStream fileOut =
          new FileOutputStream("Data.txt");
          ObjectOutputStream out = new ObjectOutputStream(fileOut);
          out.writeObject(s);
          out.close();
          fileOut.close();
          System.out.print("\u000C");
          System.out.printf("");
      }catch(IOException i) {
          i.printStackTrace();
          System.out.printf("ERROR 000");
          try{
             Thread.sleep(3000);}
             catch ( InterruptedException ex){Thread.currentThread().interrupt();}
             System.out.print("\u000C");
             return 1;
      }

  return 1;
}

public int Audi_3 ()
{
   Store s = null;
  try {
    FileInputStream fileIn = new FileInputStream("Data.txt");
    ObjectInputStream in = new ObjectInputStream(fileIn);
    s = (Store) in.readObject();
    in.close();
    fileIn.close();
  }catch(IOException i) {
    i.printStackTrace();
    System.out.println("Store not found : ERROR 002");
    try{
        Thread.sleep(3000);}
     catch ( InterruptedException ex){Thread.currentThread().interrupt();}
     System.out.print("\u000C");
     return 1;
  }catch(ClassNotFoundException c) {
    System.out.println("Store not found : ERROR 002");
    c.printStackTrace();
    try{
        Thread.sleep(3000);}
     catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    return 1;
  }
  for(int i = 0, j = 0 , c = 0;c<144;++c)
  { if(i%2==0)
       s.formatAudi3 [i][j] = "[___]";
       else
           s.formatAudi3 [i][j] = "     ";
     if(i==11) {i=0; ++j;}else{ ++i;} }
  s.formatAudi3 [0][0]="     ";s.formatAudi3 [0][4]="C    ";s.formatAudi3 [0][8]="F    ";
  s.formatAudi3 [0][1]="     ";s.formatAudi3 [0][5]="     ";s.formatAudi3 [0][9]="     ";
  s.formatAudi3 [0][2]="A    ";s.formatAudi3 [0][6]="D    ";s.formatAudi3 [0][10]="*****";
  s.formatAudi3 [0][3]="B    ";s.formatAudi3 [0][7]="E    ";s.formatAudi3 [0][11]="*****";
  s.formatAudi3 [2][1]="  1  ";s.formatAudi3 [6][1]="  3  ";s.formatAudi3 [10][1]="  5  ";
  s.formatAudi3 [4][1]="  2  ";s.formatAudi3 [8][1]="  4  ";
  s.formatAudi3 [2][9]="     ";s.formatAudi3 [6][9]="     ";s.formatAudi3 [10][9]="     ";
  s.formatAudi3 [4][9]="     ";s.formatAudi3 [8][9]="     ";
  s.formatAudi3 [1][10]="*****";s.formatAudi3 [5][10]="*****";s.formatAudi3 [9][10]="*****";
  s.formatAudi3 [2][10]="*****";s.formatAudi3 [6][10]="*****";s.formatAudi3 [10][10]="*****";
  s.formatAudi3 [3][10]="*****";s.formatAudi3 [7][10]="***";s.formatAudi3 [11][10]="*****";
  s.formatAudi3 [4][10]="*******";s.formatAudi3 [8][10]="*******";
  s.formatAudi3 [1][11]="*****";s.formatAudi3 [5][11]="N THI";s.formatAudi3 [9][11]="*****";
  s.formatAudi3 [2][11]="********";s.formatAudi3 [6][11]="S WAY";s.formatAudi3 [10][11]="****";
  s.formatAudi3 [3][11]="**** ";s.formatAudi3 [7][11]=" *****";s.formatAudi3 [11][11]="**";
  s.formatAudi3 [4][11]="SCREE";s.formatAudi3 [8][11]="*******";
  s.formatAudi3 [1][0]="     ";s.formatAudi3 [5][0]="CLASS";s.formatAudi3 [9][0]="     ";
  s.formatAudi3 [2][0]="       ";s.formatAudi3 [6][0]="(1200/-)";s.formatAudi3 [10][0]="     ";
  s.formatAudi3 [3][0]="  ";   s.formatAudi3 [7][0]="  ";s.formatAudi3 [11][0]="     ";
  s.formatAudi3 [4][0]="GOLD ";s.formatAudi3 [8][0]="     ";
  s.formatAudi3 [1][5]="     ";s.formatAudi3 [5][5]="CLASS";s.formatAudi3 [9][5]="     ";
  s.formatAudi3 [2][5]="     ";s.formatAudi3 [6][5]="(1000/-)";s.formatAudi3 [10][5]="     ";
  s.formatAudi3 [3][5]="     ";   s.formatAudi3 [7][5]="     ";s.formatAudi3 [11][5]="     ";
  s.formatAudi3 [4][5]="GOLD ";s.formatAudi3 [8][5]="  ";
  s.formatAudi3 [4][2]="[[#]]";s.formatAudi3 [10][6]="[[#]]";s.formatAudi3 [6][7]="[[#]]";
  s.formatAudi3 [6][2]="[[#]]";s.formatAudi3 [8][6]="[[#]]";s.formatAudi3 [4][7]="[[#]]";
  s.formatAudi3 [8][2]="[[#]]";s.formatAudi3 [6][6]="[[#]]";s.formatAudi3 [2][7]="[[#]]";
  s.formatAudi3 [10][2]="[[#]]";s.formatAudi3 [4][6]="[[#]]";s.formatAudi3 [8][8]="[[#]]";
  s.formatAudi3 [4][4]="[[#]]";s.formatAudi3 [6][4]="[[#]]";s.formatAudi3 [6][8]="[[#]]";
  try {    FileOutputStream fileOut =
          new FileOutputStream("Data.txt");
          ObjectOutputStream out = new ObjectOutputStream(fileOut);
          out.writeObject(s);
          out.close();
          fileOut.close();
          System.out.print("\u000C");
          System.out.printf("");
      }catch(IOException i) {
          i.printStackTrace();
          System.out.printf("ERROR 000");
          try{  Thread.sleep(3000);}
             catch ( InterruptedException ex){Thread.currentThread().interrupt();}
             System.out.print("\u000C");
             return 1; }
   return 1; }      }
```

Class: Update

```
import java.util.Scanner;
import java.io.*;
public class Update
{
    public int Edit (int temp)
    {
        Store s = null;
        try {
            FileInputStream fileIn = new FileInputStream("Data.txt");
            ObjectInputStream in = new ObjectInputStream(fileIn);
            s = (Store) in.readObject();
            in.close();
            fileIn.close();
        }catch(IOException i) {
            i.printStackTrace();
            System.out.println("Store not found : ERROR 002");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }catch(ClassNotFoundException c) {
            System.out.println("Store not found : ERROR 002");
            c.printStackTrace();
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        Scanner Sc = new Scanner ( System.in );
        String Choice;
        outer :
        while ( true )
        {
            System.out.print("\u000C");
            System.out.println("A. Edit Movie Name");
            System.out.println("B. Edit Movie Language");
            System.out.println("C. Edit Movie Duration");
            System.out.println("D. Exit");
            Choice = Sc.nextLine();
            System.out.print("\u000C");
            if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT"))||
(Choice.equalsIgnoreCase("D")))
            {
                System.out.print("\u000C");
                break outer;
            }
            else if (Choice.equalsIgnoreCase("A"))
            {
                System.out.println("Enter new movie name");
                Choice = Sc.nextLine();
                s.movieList[temp][0]=Choice;
    if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT")))
    {
        System.out.print("\u000C");
        continue;
    }
    else
        ;
    System.out.print("\u000C");
    System.out.println("Changed movie name sucessfully");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    continue;
}
else if (Choice.equalsIgnoreCase("B"))
{
    System.out.println("Enter new movie language");
    Choice = Sc.nextLine();
    s.movieList[temp][1]=Choice;
    System.out.print("\u000C");
    if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT")))
    {
        System.out.print("\u000C");
        continue;
    }
    else
        ;
    System.out.println("Changed movie language sucessfully");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    continue;
}
else if (Choice.equalsIgnoreCase("C"))
{
    System.out.println("Enter new movie duration");
    Choice = Sc.nextLine();
    s.movieList[temp][2]=Choice;
    if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT")))
    {
        System.out.print("\u000C");
        continue;
    }
    else
        ;
    System.out.print("\u000C");
    System.out.println("Changed movie duration sucessfully");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    continue;
}
else
```

```
        {
            System.out.println("ERROR:506");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            continue;
        }
    }
    try {
        FileOutputStream fileOut =
            new FileOutputStream("Data.txt");
        ObjectOutputStream out = new ObjectOutputStream(fileOut);
        out.writeObject(s);
        out.close();
        fileOut.close();
        System.out.print("\u000C");
        System.out.printf("");
    }catch(IOException i) {
        i.printStackTrace();
        System.out.printf("ERROR 000");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
    return 1;
}

public int DeleteShow (int code)
{
    Store s = null;
    try {
        FileInputStream fileIn = new FileInputStream("Data.txt");
        ObjectInputStream in = new ObjectInputStream(fileIn);
        s = (Store) in.readObject();
        in.close();
        fileIn.close();
    }catch(IOException i) {
        i.printStackTrace();
        System.out.println("Store not found : ERROR 002");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }catch(ClassNotFoundException c) {
        System.out.println("Store not found : ERROR 002");
        c.printStackTrace();
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
    Scanner Sc = new Scanner ( System.in );
    int d4 = 0;
    int d;
    int d2;
    int d3;
    d3 = Integer.valueOf(s.movieList [code][2]);
    for(int i = 60,i2 =0;i<1380;i=i+60,++i2)
    {
      if(d3<=i)
      {;
      }
      else
      {
        d4 = 40*i2;
        break;
      }
    }
    System.out.println("Please enter the day for which you want to delete the timings for");
    System.out.println("1. Monday");
    System.out.println("2. Tuesday");
    System.out.println("3. Wednesday");
    System.out.println("4. Thursday");
    System.out.println("5. Friday");
    System.out.println("6. Saturday");
    System.out.println("7. Sunday");
    System.out.println("8. Exit");
    String Choice = Sc.nextLine();
    System.out.print("\u000C");
    if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT"))||
(Choice.equalsIgnoreCase("8")))
    {
      System.out.print("\u000C");
      return 1;
    }
    if(Choice.equalsIgnoreCase("Monday")||Choice.equalsIgnoreCase("1"))
    {

      for(int i = 0;i<2359;++i)
      {   if((s.D1 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
        else
            ;
        if((s.D1 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D1 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;
      }
      System.out.println("Please enter Audi no. from which the show is to be deleted(Integer
Value Only))");
      d2 = Sc.nextInt();
      System.out.println("Please enter time of the show which is to be deleted(Integer Value
Only)");
```

```
    d = Sc.nextInt();
    s.D1 [d][d2] = "";
    for(int i = d2+1;i<=(d+d3+d4);++i)
    {    s.D6 [i][d2] = code+".";
    }
    System.out.println("Movie Deleted");
}
else if(Choice.equalsIgnoreCase("Tuesday")||Choice.equalsIgnoreCase("2"))
{
    for(int i = 0;i<2359;++i)
    {   if((s.D2 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
        else
            ;
        if((s.D2 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D2 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;
    }
    System.out.println("Please enter Audi no. from which the show is to be deleted");
    d2 = Sc.nextInt();
    System.out.println("Please enter time of the show which is to be deleted");
    d = Sc.nextInt();
    for(int i = d2+1;i<=(d+d3+d4);++i)
    {    s.D6 [i][d2] = code+".";
    }
    System.out.println("Movie Deleted");
}
else if(Choice.equalsIgnoreCase("Wednesday")||Choice.equalsIgnoreCase("3"))
{
    for(int i = 0;i<2359;++i)
    {   if((s.D3 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
        else
            ;
        if((s.D3 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D3 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;
    }
    System.out.println("Please enter Audi no. from which the show is to be deleted");
    d2 = Sc.nextInt();
    System.out.println("Please enter time of the show which is to be deleted");
    d = Sc.nextInt();
    for(int i = d2+1;i<=(d+d3+d4);++i)
    {    s.D6 [i][d2] = code+".";
    }
    System.out.println("Movie Deleted");
```

```
}
else if(Choice.equalsIgnoreCase("Thursday")||Choice.equalsIgnoreCase("4"))
{
    for(int i = 0;i<2359;++i)
    {   if((s.D4 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
        else
            ;
        if((s.D4 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D4 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;
    }
    System.out.println("Please enter Audi no. from which the show is to be deleted");
    d2 = Sc.nextInt();
    System.out.println("Please enter time of the show which is to be deleted");
    d = Sc.nextInt();
    for(int i = d2+1;i<=(d+d3+d4);++i)
    {    s.D6 [i][d2] = code+".";
    }
    System.out.println("Movie Deleted");
}
else if(Choice.equalsIgnoreCase("Friday")||Choice.equalsIgnoreCase("5"))
{
    for(int i = 0;i<2359;++i)
    {   if((s.D5 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
        else
            ;
        if((s.D5 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D5 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;
    }
    System.out.println("Please enter Audi no. from which the show is to be deleted");
    d2 = Sc.nextInt();
    System.out.println("Please enter time of the show which is to be deleted");
    d = Sc.nextInt();
    for(int i = d2+1;i<=(d+d3+d4);++i)
    {    s.D6 [i][d2] = code+".";
    }
    System.out.println("Movie Deleted");
}
else if(Choice.equalsIgnoreCase("Saturday")||Choice.equalsIgnoreCase("6"))
{
    for(int i = 0;i<2359;++i)
    {   if((s.D6 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
        else
            ;
        if((s.D6 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D6 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;
    }
    System.out.println("Please enter Audi no. from which the show is to be deleted");
    d2 = Sc.nextInt();
    System.out.println("Please enter time of the show which is to be deleted");
    d = Sc.nextInt();
    for(int i = d2+1;i<=(d+d3+d4);++i)
    {    s.D6 [i][d2] = code+".";
    }
    System.out.println("Movie Deleted");
}
else if(Choice.equalsIgnoreCase("Sunday")||Choice.equalsIgnoreCase("7"))
{
    for(int i = 0;i<2359;++i)
    {   if((s.D7 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
        else
            ;
        if((s.D7 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D7 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;
    }
    System.out.println("Please enter Audi no. from which the show is to be deleted");
    d2 = Sc.nextInt();
    System.out.println("Please enter time of the show which is to be deleted");
    d = Sc.nextInt();
    for(int i = d2+1;i<(d+d3+d4);++i)
    {    s.D6 [i][d2] = ".";
    }
    System.out.println("Show Deleted");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
}
else
{    System.out.println("ERROR");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    return 1;
    }

    try {
        FileOutputStream fileOut =
            new FileOutputStream("Data.txt");
        ObjectOutputStream out = new ObjectOutputStream(fileOut);
        out.writeObject(s);
        out.close();
        fileOut.close();
        System.out.print("\u000C");
        System.out.printf("");
    }catch(IOException i) {
        i.printStackTrace();
        System.out.printf("ERROR 000");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }

    return 1;
}

public int AddShow (int code, int duration)
{
    Scanner Sc = new Scanner ( System.in );
    String Choice;
    int Choice2;
    int Choice3;
    int d =0;
    int Choice20;
    Store s = null;
    try {
        FileInputStream fileIn = new FileInputStream("Data.txt");
        ObjectInputStream in = new ObjectInputStream(fileIn);
        s = (Store) in.readObject();
        in.close();
        fileIn.close();
    }catch(IOException i) {
        i.printStackTrace();
        System.out.println("Store not found : ERROR 002");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }catch(ClassNotFoundException c) {
        System.out.println("Store not found : ERROR 002");
        c.printStackTrace();
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
    int audi = 0;
    int hr = 0;
    int min = 0;
    System.out.println("Please enter the day for which you want to add timings");
    System.out.println("1. Monday");
    System.out.println("2. Tuesday");
    System.out.println("3. Wednesday");
    System.out.println("4. Thursday");
    System.out.println("5. Friday");
    System.out.println("6. Saturday");
    System.out.println("7. Sunday");
    System.out.println("8. Exit");
    Choice = Sc.nextLine();
    System.out.print("\u000C");
    if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT"))||
(Choice.equalsIgnoreCase("8")))
    {
      System.out.print("\u000C");
      return 1;
    }

    System.out.println("Please enter the Audi number");
    Choice3 = Sc.nextInt();
    if(audi >= 3)
    {
      System.out.println("No Such Audi Exists");
      System.out.println("Please try again");
      try{
        Thread.sleep(3000);}
      catch ( InterruptedException ex){Thread.currentThread().interrupt();}
      System.out.print("\u000C");
      return 1;
    }
    else
    { ;
    }
    System.out.print("\u000C");
    System.out.println("Please enter the Start time in hrs ( Ex. 1420 for 2:20 pm )");
    Choice2 = Sc.nextInt();
    System.out.print("\u000C");
    Choice20 = Integer.valueOf(Choice2);
    if((Choice20 > 2200)||((Choice20%100)>59))
    {
      System.out.println("No Movie After 10 pm allowed");
      System.out.println("Please try again");
      try{
        Thread.sleep(3000);}
      catch ( InterruptedException ex){Thread.currentThread().interrupt();}
      System.out.print("\u000C");
      return 1;
    }
    else
    {
      ;
```

```
}
d=(duration/60)*40;


if(Choice.equalsIgnoreCase("Monday")||Choice.equalsIgnoreCase("1"))
{
    if (s.D1 [Choice2][Choice3].equals("")&&s.D1 [Choice2+duration][Choice3].equals("")){
        s.D1 [Choice2][Choice3] = code+".S.";
        s.D1 [Choice2+duration+d][Choice3] = code+".E";
        for(int i = Choice2+1;i<(Choice2+duration+d);++i)
        {    s.D1 [i][Choice3] = code+".";
        }
    }
    else
    {  System.out.println("Time Slot already Booked");
        System.out.println("Please Try Again");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
else if(Choice.equalsIgnoreCase("Tuesday")||Choice.equalsIgnoreCase("2"))
{
    if (s.D2 [Choice2][Choice3].equals("")&&s.D2 [Choice2+duration][Choice3].equals("")){
        s.D2 [Choice2][Choice3] = code+".S.";
        s.D2 [Choice2+duration+d][Choice3] = code+".E";
        for(int i = Choice2+1;i<(Choice2+duration+d);++i)
        {    s.D2 [i][Choice3] = code+".";
        }
    }
    else
    {  System.out.println("Time Slot already Booked");
        System.out.println("Please Try Again");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
else if(Choice.equalsIgnoreCase("Wednesday")||Choice.equalsIgnoreCase("3"))
{
    if (s.D3 [Choice2][Choice3].equals("")&&s.D3 [Choice2+duration][Choice3].equals("")){
        s.D3 [Choice2][Choice3] = code+".S.";
        s.D3 [Choice2+duration+d][Choice3] = code+".E";
        for(int i = Choice2+1;i<(Choice2+duration+d);++i)
        {    s.D3 [i][Choice3] = code+".";
        }
    }
    else
    {  System.out.println("Time Slot already Booked");
        System.out.println("Please Try Again");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
else if(Choice.equalsIgnoreCase("Thursday")||Choice.equalsIgnoreCase("4"))
{
    if (s.D4 [Choice2][Choice3].equals("")&&s.D4 [Choice2+duration][Choice3].equals("")){
        s.D4 [Choice2][Choice3] = code+".S.";
        s.D4 [Choice2+duration+d][Choice3] = code+".E";
        for(int i = Choice2+1;i<(Choice2+duration+d);++i)
        {    s.D4 [i][Choice3] = code+".";
        }
    }
    else
    {  System.out.println("Time Slot already Booked");
        System.out.println("Please Try Again");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
else if(Choice.equalsIgnoreCase("Friday")||Choice.equalsIgnoreCase("5"))
{
    if (s.D5 [Choice2][Choice3].equals("")&&s.D5 [Choice2+duration][Choice3].equals("")){
        s.D5 [Choice2][Choice3] = code+".S.";
        s.D5 [Choice2+duration+d][Choice3] = code+".E";
        for(int i = Choice2+1;i<(Choice2+duration+d);++i)
        {    s.D5 [i][Choice3] = code+".";
        }
    }
    else
    {  System.out.println("Time Slot already Booked");
        System.out.println("Please Try Again");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
else if(Choice.equalsIgnoreCase("Saturday")||Choice.equalsIgnoreCase("6"))
{
    if (s.D6 [Choice2][Choice3].equals("")&&s.D6 [Choice2+duration][Choice3].equals("")){
        s.D6 [Choice2][Choice3] = code+".S.";
        s.D6 [Choice2+duration+d][Choice3] = code+".E";
        for(int i = Choice2+1;i<(Choice2+duration+d);++i)
        {    s.D6 [i][Choice3] = code+".";
        }
    }
    else
    {  System.out.println("Time Slot already Booked");
        System.out.println("Please Try Again");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
else if(Choice.equalsIgnoreCase("Sunday")||Choice.equalsIgnoreCase("7"))
{
    if (s.D7 [Choice2][Choice3].equals("")&&s.D7 [Choice2+duration][Choice3].equals("")){
        s.D7 [Choice2][Choice3] = code+".S.";
        s.D7 [Choice2+duration+d][Choice3] = code+".E";
        for(int i = Choice2+1;i<(Choice2+duration+d);++i)
        {    s.D7 [i][Choice3] = code+".";
        }
    }
    else
    {  System.out.println("Time Slot already Booked");
        System.out.println("Please Try Again");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
else
{    System.out.println("ERROR");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    return 1;
}

try {
    FileOutputStream fileOut =
        new FileOutputStream("Data.txt");
    ObjectOutputStream out = new ObjectOutputStream(fileOut);
    out.writeObject(s);
    out.close();
    fileOut.close();
    System.out.print("\u000C");
    System.out.printf("");
}catch(IOException i) {
    i.printStackTrace();
    System.out.printf("ERROR 000");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    return 1;
}
System.out.println("Timing stored");
try{
    Thread.sleep(3000);}
catch ( InterruptedException ex){Thread.currentThread().interrupt();}
```

```
        System.out.print("\u000C");
        return 1;
    }

        public int ShowTime (int code)
    {
        Scanner Sc = new Scanner ( System.in );
        String Choice;
        Outer :
        while ( true )
        {

            Store s = null;
            try {
                FileInputStream fileIn = new FileInputStream("Data.txt");
                ObjectInputStream in = new ObjectInputStream(fileIn);
                s = (Store) in.readObject();
                in.close();
                fileIn.close();
            }catch(IOException i) {
                i.printStackTrace();
                System.out.println("Store not found : ERROR 002");
                try{
                    Thread.sleep(3000);}
                catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                System.out.print("\u000C");
                return 1;
            }catch(ClassNotFoundException c) {
                System.out.println("Store not found : ERROR 002");
                c.printStackTrace();
                try{
                    Thread.sleep(3000);}
                catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                System.out.print("\u000C");
                return 1;
            }

            System.out.println("Please enter the day for which you want to see the timings");
            System.out.println("1. Monday");
            System.out.println("2. Tuesday");
            System.out.println("3. Wednesday");
            System.out.println("4. Thursday");
            System.out.println("5. Friday");
            System.out.println("6. Saturday");
            System.out.println("7. Sunday");
            System.out.println("8. Exit");
            Choice = Sc.nextLine();
            System.out.print("\u000C");
            if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT"))||
(Choice.equalsIgnoreCase("8")))
            {
                System.out.print("\u000C");
                return 1;
            }

            if(Choice.equalsIgnoreCase("Monday")||Choice.equalsIgnoreCase("1"))
```

```
{

   for(int i = 0;i<2359;++i)
   {    if((s.D1 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
         else
            ;
         if((s.D1 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
         else
            ;
         if((s.D1 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
         else
            ;

   }
   System.out.println("Enter any character to exit");
   Choice = Sc.nextLine();
   Choice = "ERROR";
   System.out.print("\u000C");
   continue Outer;
}
else if(Choice.equalsIgnoreCase("Tuesday")||Choice.equalsIgnoreCase("2"))
{
   for(int i = 0;i<2359;++i)
   {   if((s.D2 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
         else
            ;
         if((s.D2 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
         else
            ;
         if((s.D2 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
         else
            ;

   }
   System.out.println("Enter any character to exit");
   Choice = Sc.nextLine();
   Choice = "ERROR";
   System.out.print("\u000C");
   continue Outer;
}
else if(Choice.equalsIgnoreCase("Wednesday")||Choice.equalsIgnoreCase("3"))
{
   for(int i = 0;i<2359;++i)
   {   if((s.D3 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
         else  ;
         if((s.D3 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
         else ;
         if((s.D3 [i][3]).startsWith(code+".S"))
         System.out.println("-> Audi:3    Time:"+i+" Hrs.");
      else ; }
   System.out.println("Enter any character to exit");
   Choice = Sc.nextLine();
   Choice = "ERROR";
   System.out.print("\u000C");
   continue Outer;  }
else if(Choice.equalsIgnoreCase("Thursday")||Choice.equalsIgnoreCase("4"))
{
   for(int i = 0;i<2359;++i)
   {   if((s.D4 [i][1]).startsWith(code+".S"))
         System.out.println("-> Audi:1    Time:"+i+" Hrs.");
      else ;
      if((s.D4 [i][2]).startsWith(code+".S"))
         System.out.println("-> Audi:2    Time:"+i+" Hrs.");
      else ;
      if((s.D4 [i][3]).startsWith(code+".S"))
         System.out.println("-> Audi:3    Time:"+i+" Hrs.");
      else ; }
   System.out.println("Enter any character to exit");
   Choice = Sc.nextLine();
   Choice = "ERROR";
   System.out.print("\u000C");
   continue Outer; }
else if(Choice.equalsIgnoreCase("Friday")||Choice.equalsIgnoreCase("5"))
{
   for(int i = 0;i<2359;++i)
   {   if((s.D5 [i][1]).startsWith(code+".S"))
         System.out.println("-> Audi:1    Time:"+i+" Hrs.");
      else ;
      if((s.D5 [i][2]).startsWith(code+".S"))
         System.out.println("-> Audi:2    Time:"+i+" Hrs.");
      else ;
      if((s.D5 [i][3]).startsWith(code+".S"))
         System.out.println("-> Audi:3    Time:"+i+" Hrs.");
      else ; }
   System.out.println("Enter any character to exit");
   Choice = Sc.nextLine();
   Choice = "ERROR";
   System.out.print("\u000C");
   continue Outer;
}
else if(Choice.equalsIgnoreCase("Saturday")||Choice.equalsIgnoreCase("6"))
{
   for(int i = 0;i<2359;++i)
   {   if((s.D6 [i][1]).startsWith(code+".S"))
         System.out.println("-> Audi:1    Time:"+i+" Hrs.");
      else
         ;
      if((s.D6 [i][2]).startsWith(code+".S"))
         System.out.println("-> Audi:2    Time:"+i+" Hrs.");
      else ;
      if((s.D6 [i][3]).startsWith(code+".S"))
         System.out.println("-> Audi:3    Time:"+i+" Hrs.");
      else  ;
}
```

```
        System.out.println("Enter any character to exit");
        Choice = Sc.nextLine();
        Choice = "ERROR";
        System.out.print("\u000C");
        continue Outer;
      }
      else if(Choice.equalsIgnoreCase("Sunday")||Choice.equalsIgnoreCase("7"))
      {
        for(int i = 0;i<2359;++i)
        {   if((s.D7 [i][1]).startsWith(code+".S"))
              System.out.println("-> Audi:1    Time:"+i+" Hrs.");
            else ;
            if((s.D7 [i][2]).startsWith(code+".S"))
              System.out.println("-> Audi:2    Time:"+i+" Hrs.");
            else ;
            if((s.D7 [i][3]).startsWith(code+".S"))
              System.out.println("-> Audi:3    Time:"+i+" Hrs.");
            else ;

        }
        System.out.println("Enter any character to exit");
        Choice = Sc.nextLine();
        Choice = "ERROR";
        System.out.print("\u000C");
        continue Outer;
      }
      else
      {   System.out.println("ERROR");
        try{
          Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");

      }

      try {
        FileOutputStream fileOut =
          new FileOutputStream("Data.txt");
        ObjectOutputStream out = new ObjectOutputStream(fileOut);
        out.writeObject(s);
        out.close();
        fileOut.close();
        System.out.print("\u000C");
        System.out.printf("");
      }catch(IOException i) {
        i.printStackTrace();
        System.out.printf("ERROR 000");
        try{
          Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
      }
    }   }
}
```

Class: Login

```
import java.util.Scanner;
public class Login
{
   public boolean login ()
   {
      String ID = "i";
      String Password = "i";
      String Choice;
      System.out.print("\u000C");
      Scanner Sc = new Scanner ( System.in );
      boolean result = false;
      String PasswordIN ;
      String IDIN ;
      System.out.println("Please enter USER ID:");
      outer :
      for(int i = 0;i<=4;++i)
         {
          IDIN = Sc.nextLine();
          System.out.print("\u000C");
          if(IDIN.equalsIgnoreCase(ID))
          {
            System.out.print("\u000C");
            System.out.println("Please enter password");
            inner :
            for(int i2 = 0;i2<=3;++i)
              {
               PasswordIN = Sc.nextLine();
               System.out.print("\u000C");
                if(PasswordIN.equals(Password))
               {
                  result = true;
                  System.out.println("USER VERIFIED");
                   try{
                    Thread.sleep(3000);}
                   catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                  System.out.print("\u000C");
                  break outer;
                }
                else if (PasswordIN.equalsIgnoreCase("EXIT"))
                {
                   System.out.println("Verification Failed");
                try{
                Thread.sleep(3000);}
                catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                System.out.print("\u000C");
                 return result;
                }
                else if(PasswordIN.equalsIgnoreCase("E"))
                 {
                   System.out.print("\u000C");
                   break outer;
                }
                else
```

```
        {
           System.out.println("Wrong password");
        }
      System.out.println("Please enter password again");
      if(i2==2)
      {
        System.out.print("\u000C");
        System.out.println("Too many incorrect tries");
        System.out.println("System locked ");
        System.out.println("System will resume after a few moments");
        System.out.println("Please do not enter anything, doing so will close the program");
          try{
        Thread.sleep(10000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        i2 = 0;
        System.out.println("Enter 'E' to exit the program");
        System.out.println("Enter any character to continue");
        Choice = Sc.next();
        System.out.print("\u000C");
        if(Choice.equalsIgnoreCase("E"))
         {
           System.out.print("\u000C");
           break outer;
        }
        else if (Choice.equalsIgnoreCase("EXIT"))
        {
           System.out.println("Verification Failed");
          try{
          Thread.sleep(3000);}
          catch ( InterruptedException ex){Thread.currentThread().interrupt();}
          System.out.print("\u000C");
          return result;
        }
        else
        {
            continue inner;
        }
      }
    }
}
else if (IDIN.equalsIgnoreCase("EXIT"))
{
    System.out.println("Verification Failed");
   try{
        Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
   return result;

}
else if (IDIN.equalsIgnoreCase("E"))
{
    System.out.println("Verification Failed");
   try{
        Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
```

```
                System.out.print("\u000C");
            return result;

        }
        else
        {
           {
                   System.out.println("Wrong USER ID");
                }
           System.out.println("Please enter USER ID again");
           if(i==2)
              {
                System.out.print("\u000C");
                System.out.println("Too many incorrect tries");
                System.out.println("System locked ");
                System.out.println("System will resume after a few moments");
                System.out.println("Please do not enter anything, doing so will close the program");
                  try{
                Thread.sleep(30000);}
                catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                i = 0;
                System.out.println("Enter 'E' to exit program");
                System.out.println("Enter any character to continue");
                Choice = Sc.next();
                System.out.print("\u000C");
                if(Choice.equalsIgnoreCase("E"))
                {System.out.print("\u000C");
                 break outer;
                }
                else if (Choice.equalsIgnoreCase("EXIT"))
                {
                   System.out.println("Verification Failed");
                  try{
                  Thread.sleep(3000);}
                  catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                  System.out.print("\u000C");
                   return result;
                }

                else
                {
                    continue outer;
                }
              }
            }
        }
if(result==false)
{
    System.out.println("Verification Failed");
   try{
                Thread.sleep(3000);}
                catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                System.out.print("\u000C");
            }
            else if (result==true) {;}return result;}
    }
```

Class: SystemUpdate

```
public class SystemUpdate
{
    public int systemupdate ()
    {
        Screen S = new Screen ();
        AddMovie AM = new AddMovie ();
        UpdateMovie UM = new UpdateMovie();
        DeleteMovie DM = new DeleteMovie();
        String Choice;
        int a = 0;
        while(true)
        {
         Choice = S.Screen_2();
            if(Choice.equalsIgnoreCase("A"))
         {
             a = AM.add();
             continue;
         }
         else if(Choice.equalsIgnoreCase("B"))
         {
             a = UM.update();
             continue;
         }
         else if(Choice.equalsIgnoreCase("C"))
         {
             a = DM.delete();
             continue;
         }
         else if(Choice.equalsIgnoreCase("D"))
         {
             break;
         }
         else if (Choice.equalsIgnoreCase("E")llChoice.equalsIgnoreCase("EXIT"))
         {
             break;
         }
         else
         {
             System.out.println("Please enter a valid choice");
             continue;
         }
        }
        return a;
    }
}
```

Class: AddMovie

```
import java.util.Scanner;
import java.io.*;
public class AddMovie
{
    public int add ()
    {
        Scanner Sc = new Scanner ( System.in );
        String Choice;
        String Movie;
        String Language;
        String Duration;
        int temp = -1;
        int temp2 = -1;
        Store s = null;
        try {
            FileInputStream fileIn = new FileInputStream("Data.txt");
            ObjectInputStream in = new ObjectInputStream(fileIn);
            s = (Store) in.readObject();
            in.close();
            fileIn.close();
        }catch(IOException i) {
            i.printStackTrace();
            System.out.println("Store not found : ERROR 002");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }catch(ClassNotFoundException c) {
            System.out.println("Store not found : ERROR 002");
            c.printStackTrace();
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        outer :
        while(true)
        {
            System.out.println("Please enter the name of the movie, to be added");
            Movie = Sc.nextLine();
            System.out.print("\u000C");
            if((Movie.equalsIgnoreCase("E"))||(Movie.equalsIgnoreCase("EXIT")))
            {
                return 1;
            }
            else
                ;
            inner :
            for(int i = 0;i<50;++i)
            {
                if((Movie).equalsIgnoreCase(s.movieList[i][0]))
    {
        System.out.println("This Movie is already playing");
        System.out.println("A. Add Anyway");
        System.out.println("B. Overwrite Movie");
        System.out.println("c. Cancel");
        Choice = Sc.nextLine();
        if(Choice.equalsIgnoreCase("a"))
        {
            break inner;
        }
        else if (Choice.equalsIgnoreCase("B"))
        {
            temp2 = i;
            break inner;
        }
        else if (Choice.equalsIgnoreCase("C"))
        {
            return 1;
        }
        else
        {
            System.out.println("Key not found");
        }
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        continue outer;
    }
    else
        ;
}

for(int i = 0;i<50;++i)
{
    if("".equals((s.movieList[i][0])))
    {temp = i;
        break;
    }
    else
        ;
}

if(temp == -1 )
{
    System.out.println("No space available");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    return 1;
}
else
    ;
System.out.print("\u000C");
System.out.println("Please enter the language");
```

```
            Language = Sc.nextLine();
            System.out.print("\u000C");
            if(Language.equalsIgnoreCase("E")||Language.equalsIgnoreCase("EXIT"))
            {
                return 1;
            }
            else
                ;
            System.out.println("Please enter the duration of the movie in minutes");
            Duration = Sc.nextLine();
            System.out.print("\u000C");
            if(Duration.equalsIgnoreCase("E")||Duration.equalsIgnoreCase("EXIT"))
            {
                return 1;
            }
            else
                break outer;
        }
        if(temp2 == -1 )
        {
            s.movieList[temp][0] = Movie;
        }
        else
        {s.movieList[temp2][0] = Movie;}
        s.movieList[temp][1] = Language;
        s.movieList[temp][2] = Duration;
        s.movieList[temp][3] = Integer.toString(s.code);
        s.code = s.code+1;
        try {
            FileOutputStream fileOut =
                new FileOutputStream("Data.txt");
            ObjectOutputStream out = new ObjectOutputStream(fileOut);
            out.writeObject(s);
            out.close();
            fileOut.close();
            System.out.print("\u000C");
            System.out.printf("");
        }catch(IOException i) {
            i.printStackTrace();
            System.out.printf("ERROR 000");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        System.out.println("Movie Sucessfully stored");
        System.out.println("Please update/add movie show timings in Update Movie/Show Timings
section");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
```

Class: DeleteMovie

```
import java.util.Scanner;
import java.io.*;
public class DeleteMovie
{
    public int delete ()
    {
        Store s = null;
        try {
            FileInputStream fileIn = new FileInputStream("Data.txt");
            ObjectInputStream in = new ObjectInputStream(fileIn);
            s = (Store) in.readObject();
            in.close();
            fileIn.close();
        }catch(IOException i) {
            i.printStackTrace();
            System.out.println("Store not found : ERROR 002");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }catch(ClassNotFoundException c) {
            System.out.println("Store not found : ERROR 002");
            c.printStackTrace();
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        Scanner Sc = new Scanner ( System.in );
        String Choice;
        char a = 'A';
        String b = a+". " ;
        int arr [] = new int [50];
        for(int i = 0;i<50;++i)
        {
            arr[i]=-1;
        }
        for ( int i =0,j=0,c=0,d=0;c<49;++c)
        {
            if(!s.movieList[i][j].equals(""))
            {
                if((j==0) && (i>0))
                {
                    System.out.print(b);
                    ++a;
                    b=a+". ";
                    arr[d]=i;
                    ++d;
                }
                else
                {
                }
                System.out.print(s.movieList[i][j]+"\t");
                System.out.print("\t|");
                if(j==2)
                {
                    ++i;
                    j=0;
                    System.out.println();
                }
                else
                {++j; }
            }
            else
            { ++i; }
        }
        System.out.println();
        System.out.println("Please enter the movie you want to delete");
        Choice = Sc.nextLine();
        System.out.print("\u000C");
        if(Choice.equalsIgnoreCase("EXIT"))
        {
            return 1;
        }
        else
            ;
        a = 'A';
        int temp = -1;
        for(int i = 0;i<50;++i)
        {
            b = a+"";
            if(Choice.equalsIgnoreCase(b))
            {
                temp = arr[i];
                break;
            }
            else
            { ++a;}
        }
        if(temp != -1 )
        {
            System.out.println("Are you sure you want to delete "+(s.movieList[temp][0])+" ?");
            System.out.println("A. Yes");
            System.out.println("B. No, exit this menu");
            Choice = Sc.nextLine();
        }
        else
        {
            System.out.println("ERROR:200");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        if(Choice.equalsIgnoreCase("A")||Choice.equalsIgnoreCase("YES"))
```

```
        { ;  }
        else if(Choice.equalsIgnoreCase("b")||Choice.equalsIgnoreCase("No"))
        {
            System.out.println("Movie Not deleted");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        else if(Choice.equalsIgnoreCase("e")||Choice.equalsIgnoreCase("exit"))
        {
            System.out.println("Movie Not deleted");
            try{ Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        else
        {
            System.out.println("Key not found");
            System.out.println("Movie Not deleted");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        s.movieList[temp][1] = “";  s.movieList[temp][2] = “";  s.movieList[temp][0] = "";
        s.movieList[temp][3] = "";
        try {
            FileOutputStream fileOut =
                new FileOutputStream("Data.txt");
            ObjectOutputStream out = new ObjectOutputStream(fileOut);
            out.writeObject(s);
            out.close();
            fileOut.close();
            System.out.print("\u000C");
            System.out.printf("");
        }catch(IOException i) {
            i.printStackTrace();
            System.out.printf("ERROR 000");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        System.out.println("Movie sucessfully deleted");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
```

Class: UpdateMovie

```
import java.util.Scanner;
import java.io.*;
public class UpdateMovie
{
    public int update ()
    {
        Store s = null;
        try {
            FileInputStream fileIn = new FileInputStream("Data.txt");
            ObjectInputStream in = new ObjectInputStream(fileIn);
            s = (Store) in.readObject();
            in.close();
            fileIn.close();
        }catch(IOException i) {
            i.printStackTrace();
            System.out.println("Store not found : ERROR 002");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }catch(ClassNotFoundException c) {
            System.out.println("Store not found : ERROR 002");
            c.printStackTrace();
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        Scanner Sc = new Scanner ( System.in );
        String Choice;
        int temp = -1;
        char a = 'A';
        String b = a+". ";
        int arr [] = new int [50];
        for ( int i = 0; i<50;++i)
        {
            arr[i]=-1;
        }
        for ( int i =0,j=0,c=0,d=0;c<49;++c)
        {
            if(!s.movieList[i][j].equals(""))
            {
                if((j==0) && (i>0))
                {
                    System.out.print(b);
                    ++a;
                    b=a+". ";
                    arr[d]=i;
                    ++d;
                }
        else
        {

        }
        System.out.print(s.movieList[i][j]+"\t");
        System.out.print("\tl");
        if(j==2)
        {
            ++i;
            j=0;
            System.out.println();
        }
        else
        {
            ++j;
        }
    }
    else
    {
        ++i;
    }
}
System.out.println();
System.out.println("Please enter the movie you want to Update ");
Choice = Sc.nextLine();
System.out.print("\u000C");
if((Choice.equalsIgnoreCase("EXIT")))
{
    System.out.print("\u000C");
    return 1;
}
else
    ;
a = 'A';
for(int i = 0;i<50;++i)
{
    b = a+"";
    if(Choice.equalsIgnoreCase(b))
    {
        temp = arr[i];
        break;
    }
    else
    {
        ++a;
    }
}
if(temp == -1)
{
    System.out.println("ERROR:200");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    return 1;
}
```

```
        else
        {
            System.out.print("\u000C");
        }
        int temp2 = Integer.valueOf(s.movieList[temp][3]);
        int temp3 = Integer.valueOf(s.movieList[temp][2]);

        System.out.print(" Mavie: "+s.movieList[temp][0]+" | Language: "+s.movieList[temp][1]);
        System.out.print(" | Duration: "+s.movieList[temp][2]+" mins");
        System.out.println();
        System.out.println("A. Edit movie Name/ Language/ Duration");
        System.out.println("B. Show existing movie timings");
        System.out.println("C. Add Shows");
        System.out.println("D. Delete Shows");
        Choice = Sc.nextLine();
        System.out.print("\u000C");
        Update U = new Update ();
        int hi;
        if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT")))
        {
            System.out.print("\u000C");
            return 1;
        }
        else if (Choice.equalsIgnoreCase("A"))
        {
            hi = U.Edit(temp);
            return 1;
        }
        else if (Choice.equalsIgnoreCase("B"))
        {
            hi = U.ShowTime(temp2);
            return 1;
        }
        else if (Choice.equalsIgnoreCase("C"))
        {
            hi = U.AddShow(temp2,temp3);
            return 1;
        }
        else if (Choice.equalsIgnoreCase("D"))
        {
            hi = U.DeleteShow(temp2);
            return 1;
        }
        else
        {
            System.out.println("ERROR:506");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
    }
}
```

Class: Screen

```
import java.util.Scanner;
public class Screen
{
    String Choice;
    public String Screen_1 ()
    {
        Scanner Sc = new Scanner ( System.in);
        System.out.print("\u000C");
        System.out.println("                    I CINEMAS");
        System.out.println();
        System.out.println(" A. System Update");
        System.out.println(" B. List Of Movies With Show Timings");
        System.out.println(" C. Book A Ticket");
        System.out.println(" D. Exit");
        System.out.println();
        System.out.println("Please Enter Your Choice");
        Choice = Sc.nextLine();
        System.out.print("\u000C");
        return Choice;
    }

    public String Screen_2 ()
    {
        Scanner Sc = new Scanner ( System.in);
        System.out.print("\u000C");
        System.out.println("                    System Update");
        System.out.println();
        System.out.println(" A. Add A New Movie");
        System.out.println(" B. Update Movie / Show Timings");
        System.out.println(" C. Delete A Movie");
        System.out.println(" D. Exit");
        System.out.println();
        System.out.println("Please Enter Your Choice");
        Choice = Sc.nextLine();
        System.out.print("\u000C");
        return Choice;
    }

}
```

Class: Book

```
import java.util.*;
import java.io.*;
import java.text.SimpleDateFormat;
public class Book
{
    static String Food [][] = new String [3][25];
    public int book ()
    {
        Scanner Sc = new Scanner ( System.in);
        Movie M = new Movie ();
        Day D = new Day ();
        Show_Book S = new Show_Book ();
        Seat s = new Seat ();
        Bill B = new Bill ();
        int MovieCode = 0;
        MovieCode = M.choice ();
        if(MovieCode==0){return 1;}else{;}
        int Day = 0;
        Day = D.choice ();
        int audi =0;
        int time =0;
        int re =0;
        String AT = S.Show(MovieCode,Day);
        if(AT.equals("NO")){return 1;}
        audi = Integer.valueOf(AT.substring(0,1));
        int l = AT.length();
        time = Integer.valueOf(AT.substring(1,l));
        String Price [][];
        Price = s.SelectSeat(audi,Day,time,MovieCode);
        Calendar calendar = Calendar.getInstance();
        int day = calendar.get(Calendar.DAY_OF_WEEK);
        int last = day - 1;
        SimpleDateFormat sdf = new SimpleDateFormat("dd/MM");
        Calendar c = Calendar.getInstance();
        String Date = "01/01";
        Date = sdf.format(c.getTime());
        int diff = 0;
        try{c.setTime(sdf.parse(Date));}catch(Exception E23){;}
        if ( Day > last )
        {
            diff = Day - last;
        }
        else
        {diff = Day + 7 - last;}
        String dateToIncr = Date;
        String dt="";
        try { c.setTime(sdf.parse(dateToIncr));} catch ( Exception e) {}
        c.add(Calendar.DAY_OF_MONTH, diff);
        dt = sdf.format(c.getTime());
        int i = B.Bill1(Price,Food,MovieCode,dt,time,audi,Day);
        return 1;
    }
}
```

Class: Movie

```
import java.util.Scanner;
import java.io.*;
public class Movie
{
   public int choice ()
   {
      Store s = null;
      try {
         FileInputStream fileIn = new FileInputStream("Data.txt");
         ObjectInputStream in = new ObjectInputStream(fileIn);
         s = (Store) in.readObject();
         in.close();
         fileIn.close();
      }catch(IOException i) {
         i.printStackTrace();
         System.out.println("Store not found : ERROR 002");
         try{
            Thread.sleep(3000);}
         catch ( InterruptedException ex){Thread.currentThread().interrupt();}
         System.out.print("\u000C");
         return 1;
      }catch(ClassNotFoundException c) {
         System.out.println("Store not found : ERROR 002");
         c.printStackTrace();
         try{
            Thread.sleep(3000);}
         catch ( InterruptedException ex){Thread.currentThread().interrupt();}
         System.out.print("\u000C");
         return 1;
      }
      Scanner Sc = new Scanner ( System.in );
      String Choice;
      char a = 'A';
      String b = a+". " ;
      int arr [] = new int [50];
      for(int i = 0;i<50;++i)
      {
         arr[i]=-1;
      }
      for ( int i =0,j=0,c=0,d=0;c<49;++c)
      {
         if(!s.movieList[i][j].equals(""))
         {
            if((j==0) && (i>0))
            {
               System.out.print(b);
               ++a;
               b=a+". ";
               arr[d]=i;
               ++d;
            }
            else
            {
                }
                System.out.print(s.movieList[i][j]+"\t");
                System.out.print("\tl");
                if(j==2)
                {
                    ++i;
                    j=0;
                    System.out.println();
                }
                else
                {
                    ++j;
                }
            }
            else
            {
                ++i;
            }
        }
        System.out.println();
        System.out.println("Enter \"exit\" to exit");
        System.out.println("Please enter the movie ");
        Choice = Sc.nextLine();
        System.out.print("\u000C");
        if(Choice.equalsIgnoreCase("EXIT"))
        {
            return 0;
        }
        else
            ;
        a = 'A';
        int temp = -1;
        for(int i = 0;i<50;++i)
        {
            b = a+"";
            if(Choice.equalsIgnoreCase(b))
            {
                temp = arr[i];
                break;
            }
            else
            {
                ++a;
            }
        }
        //return Integer.valueOf(s.movieList[temp][3]);
        return temp;
    }
}
```

Class: Show_Book

```
import java.io.*;
import java.util.Scanner;
public class Show_Book
{
   public String Show ( int codeIn, int D )
   {
      Store s = null;
      try {
         FileInputStream fileIn = new FileInputStream("Data.txt");
         ObjectInputStream in = new ObjectInputStream(fileIn);
         s = (Store) in.readObject();
         in.close();
         fileIn.close();
      }catch(IOException i) {
         i.printStackTrace();
         System.out.println("Store not found : ERROR 002");
         try{
            Thread.sleep(3000);}
         catch ( InterruptedException ex){Thread.currentThread().interrupt();}
         System.out.print("\u000C");
         return "NO";
      }catch(ClassNotFoundException c) {
         System.out.println("Store not found : ERROR 002");
         c.printStackTrace();
         try{
            Thread.sleep(3000);}
         catch ( InterruptedException ex){Thread.currentThread().interrupt();}
         System.out.print("\u000C");
         return "NO";
      }
      Scanner Sc = new Scanner ( System.in);
      int code = Integer.valueOf(s.movieList[codeIn][3]);
      if(D==1)
      {
         for(int i = 0,d=0;i<2359;++i)
         {    if((s.D1 [i][1]).startsWith(code+".S"))
            { System.out.println("-> Audi:1    Time:"+i+" Hrs.");}
            else {;}
            if((s.D1 [i][2]).startsWith(code+".S"))
            { System.out.println("-> Audi:2    Time:"+i+" Hrs.");}
            else {;}
            if((s.D1 [i][3]).startsWith(code+".S"))
            { System.out.println("-> Audi:3    Time:"+i+" Hrs.");}
            else {;}
         }
         }
      else if(D==2)
      {
         for(int i = 0,d=0;i<2359;++i)
         {    if((s.D2 [i][1]).startsWith(code+".S"))
            { System.out.println("-> Audi:1    Time:"+i+" Hrs.");}
            else {;}
            if((s.D2 [i][2]).startsWith(code+".S"))
```

```
        { System.out.println("-> Audi:2    Time:"+i+" Hrs.");}
        else {;}
        if((s.D2 [i][3]).startsWith(code+".S"))
        { System.out.println("-> Audi:3    Time:"+i+" Hrs.");}
        else {;}
    }
    }
else if(D==3)
{
    for(int i = 0,d=0;i<2359;++i)
    {    if((s.D3 [i][1]).startsWith(code+".S"))
        { System.out.println("-> Audi:1    Time:"+i+" Hrs.");}
        else {;}
        if((s.D3 [i][2]).startsWith(code+".S"))
        { System.out.println("-> Audi:2    Time:"+i+" Hrs.");}
        else {;}
        if((s.D3 [i][3]).startsWith(code+".S"))
        { System.out.println("-> Audi:3    Time:"+i+" Hrs.");}
        else {;}
    }
    }
else if(D==4)
{
    for(int i = 0,d=0;i<2359;++i)
    {    if((s.D4 [i][1]).startsWith(code+".S"))
        { System.out.println("-> Audi:1    Time:"+i+" Hrs.");}
        else {;}
        if((s.D4 [i][2]).startsWith(code+".S"))
        { System.out.println("-> Audi:2    Time:"+i+" Hrs.");}
        else {;}
        if((s.D4 [i][3]).startsWith(code+".S"))
        { System.out.println("-> Audi:3    Time:"+i+" Hrs.");}
        else {;}
    }
    }
else if(D==5)
{
    for(int i = 0,d=0;i<2359;++i)
    {    if((s.D5 [i][1]).startsWith(code+".S"))
        { System.out.println("-> Audi:1    Time:"+i+" Hrs.");}
        else {;}
        if((s.D5 [i][2]).startsWith(code+".S"))
        { System.out.println("-> Audi:2    Time:"+i+" Hrs.");}
        else {;}
        if((s.D5 [i][3]).startsWith(code+".S"))
        { System.out.println("-> Audi:3    Time:"+i+" Hrs.");}
        else {;}
    }
    }
else if(D==6)
{
    for(int i = 0,d=0;i<2359;++i)
    {    if((s.D6 [i][1]).startsWith(code+".S"))
        { System.out.println("-> Audi:1    Time:"+i+" Hrs.");}
        else {;}
        if((s.D6 [i][2]).startsWith(code+".S"))
```

```
                { System.out.println("-> Audi:2    Time:"+i+" Hrs.");}
                else {;}
                if((s.D6 [i][3]).startsWith(code+".S"))
                { System.out.println("-> Audi:3    Time:"+i+" Hrs.");}
                else {;}
            }
            }
        else if(D==7)
        {
            for(int i = 0,d=0;i<2359;++i)
            {    if((s.D7 [i][1]).startsWith(code+".S"))
                { System.out.println("-> Audi:1    Time:"+i+" Hrs.");}
                else {;}
                if((s.D7 [i][2]).startsWith(code+".S"))
                { System.out.println("-> Audi:2    Time:"+i+" Hrs.");}
                else {;}
                if((s.D7 [i][3]).startsWith(code+".S"))
                { System.out.println("-> Audi:3    Time:"+i+" Hrs.");}
                else {;}
            }
            }
        System.out.println("Please select audi number");
        System.out.println("Please enter E to exit");
        String Choice = Sc.nextLine();
        if ( Choice.equalsIgnoreCase("E")||Choice.equalsIgnoreCase("Exit"))
        { return "NO";}
        else{;}
        System.out.println("Please select show timing in the format HHmm");
        System.out.println("Please enter E to exit");
        String Choice2 = Sc.nextLine();
        if ( Choice.equalsIgnoreCase("E")||Choice.equalsIgnoreCase("Exit"))
        { return "NO";}
        else{;}
        String Choice3 = Choice + Choice2;
        try {
            FileOutputStream fileOut =
                new FileOutputStream("Data.txt");
            ObjectOutputStream out = new ObjectOutputStream(fileOut);
            out.writeObject(s);
            out.close();
            fileOut.close();
            System.out.print("\u000C");
            System.out.printf("");
        }catch(IOException i) {
            i.printStackTrace();
            System.out.printf("ERROR 000");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return "NO";
        }
        return Choice3;
    }
}
```

Class: Day

```
import java.util.*;
import java.text.*;
public class Day
{
   public int choice ()
   {
      SimpleDateFormat df = new SimpleDateFormat("dd/MM");
      Calendar cal = Calendar.getInstance();
      int day = cal.get(Calendar.DAY_OF_WEEK);
      day = day - 1;
      Date myDate = new Date();
      System.out.println("Please select the day you want to see the movie");
      System.out.println();
      if( day == 1 )
      {
         System.out.println("1. Monday  " + df.format(myDate));myDate = addDays(myDate, 1);
         System.out.println("2. Tuesday  "+ df.format(myDate));myDate = addDays(myDate, 1);
         System.out.println("3. Wednesday  "+ df.format(myDate));myDate = addDays(myDate, 1);
         System.out.println("4. Thursday  "+ df.format(myDate));myDate = addDays(myDate, 1);
         System.out.println("5. Friday  "+ df.format(myDate));myDate = addDays(myDate, 1);
         System.out.println("6. Saturday  "+ df.format(myDate));myDate = addDays(myDate, 1);
         System.out.println("7. Sunday  "+ df.format(myDate));
      }
      else if ( day == 2)
      {
         myDate = addDays(myDate, 6);
         System.out.println("1. Monday    (" +df.format(myDate)+")");myDate = new Date();
         System.out.println("2. Tuesday   ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("3. Wednesday ("+ df.format(myDate)+")");myDate=addDays(myDate,1);
         System.out.println("4. Thursday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("5. Friday    ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("6. Saturday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("7. Sunday    ("+ df.format(myDate)+")");
      }
      else if ( day == 3)
      {
         myDate = addDays(myDate, 5);
         System.out.println("1. Monday    (" +df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("2. Tuesday   ("+ df.format(myDate)+")");myDate = new Date();
         System.out.println("3. Wednesday ("+ df.format(myDate)+")");myDate=addDays(myDate,1);
         System.out.println("4. Thursday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("5. Friday    ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("6. Saturday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("7. Sunday    ("+ df.format(myDate)+")");
      }
      else if ( day == 4)
      {
         myDate = addDays(myDate, 4);
         System.out.println("1. Monday    (" +df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("2. Tuesday   ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("3. Wednesday ("+ df.format(myDate)+")");myDate = new Date();
         System.out.println("4. Thursday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("5. Friday    ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
         System.out.println("6. Saturday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
```

```
            System.out.println("7. Sunday    ("+ df.format(myDate)+")");
        }
        else if ( day == 5)
        {
            myDate = addDays(myDate, 3);
            System.out.println("1. Monday     (" +df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("2. Tuesday   ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println(“3. Wednesday("+ df.format(myDate)+")");myDate=addDays(myDate,1);
            System.out.println("4. Thursday  ("+ df.format(myDate)+")");myDate = new Date();
            System.out.println("5. Friday    ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("6. Saturday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("7. Sunday    ("+ df.format(myDate)+")");
        }
        else if ( day == 6)
        {
            myDate = addDays(myDate, 2);
            System.out.println("1. Monday     (" +df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("2. Tuesday   ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("3. Wednesday ("+ df.format(myDate)+")");myDate=addDays(myDate,1);
            System.out.println("4. Thursday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("5. Friday    ("+ df.format(myDate)+")");myDate = new Date();
            System.out.println("6. Saturday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("7. Sunday    ("+ df.format(myDate)+")");
        }
        else if ( day == 7)
        {
            myDate = addDays(myDate, 1);
            System.out.println("1. Monday     (" +df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("2. Tuesday   ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("3. Wednesday ("+ df.format(myDate)+")");myDate=addDays(myDate,1);
            System.out.println("4. Thursday  ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("5. Friday    ("+ df.format(myDate)+")");myDate = addDays(myDate, 1);
            System.out.println("6. Saturday  ("+ df.format(myDate)+")");myDate = new Date();
            System.out.println("7. Sunday    ("+ df.format(myDate)+")");
        }
        Scanner Sc = new Scanner ( System.in );
        System.out.println("8. Exit");
        String Choice = Sc.nextLine();
        System.out.print("\u000C");
        if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT"))||
(Choice.equalsIgnoreCase("8")))
        {
            System.out.print("\u000C");
            Book B = new Book();
            B.book();
        }
        return (Integer.valueOf(Choice));
    }
    public static Date addDays(Date date, int days)
    {
        Calendar cal = Calendar.getInstance();
        cal.setTime(date);
        cal.add(Calendar.DATE, days); //minus number would decrement the days
        return cal.getTime();
    }
}
```

Class: Seat

```
import java.io.*;
import java.util.Scanner;
public class Seat
{
  public  String [][] SelectSeat ( int Audi,int Day, int time, int code)
  {
    Store s = null;
    try {
      FileInputStream fileIn = new FileInputStream("Data.txt");
      ObjectInputStream in = new ObjectInputStream(fileIn);
      s = (Store) in.readObject();
      in.close();
      fileIn.close();   }catch(IOException i) {    i.printStackTrace();
      System.out.println("Store not found : ERROR 002");
      try{
        Thread.sleep(3000);}
      catch ( InterruptedException ex){Thread.currentThread().interrupt();}
      System.out.print("\u000C");
      String ar[][] = {};
      return ar;   }catch(ClassNotFoundException c) {
      System.out.println("Store not found : ERROR 002");
      c.printStackTrace();
      try{
        Thread.sleep(3000);}
      catch ( InterruptedException ex){Thread.currentThread().interrupt();}
      System.out.print("\u000C");
      String ar[][] = {};
      return ar;  }
    Scanner Sc = new Scanner ( System.in );
    System.out.println("Please enter the number of seats that you want");
    int no = Sc.nextInt();
    System.out.print("\u000C");
    no = no+1;
    Print P = new Print ();
    Price Pr = new Price ();
    int catchreturn;
    catchreturn = P.print( Audi);
    System.out.println("Please select your seats (Format:A1");
    System.out.println("                          A2");
    System.out.println("                          A3");
    System.out.println("                          e.t.c)");
    String Ch ="";
    String Store5 [] = new String [no];
    for(int i = 0 ; i < no ; ++i )
    {
      Ch = Sc.nextLine();
      if((Ch.equalsIgnoreCase("Exit"))||(Ch.equalsIgnoreCase("E")))
      {
        Book B = new Book();   B.book();
      }  else{  Store5 [i] = Ch;  }  }
    String PriceList [][] = new String [2][no];  PriceList = Pr.price(Store5,Audi,no);
    Food F = new Food ();  Book B = new Book ();
    try{B.Food = F.foodlist();}catch ( Exception E ) { ; }return (PriceList);}
}
```

Class: Food

```
import java.util.Scanner;
public class Food
{
   public String [][] foodlist ( )
   {
      System.out.print("\u000C");
      Scanner Sc = new Scanner ( System.in );
      System.out.println("You can now order food which will be delivered at your seat");
      System.out.println("1. Order Food");
      System.out.println("2. Skip to Payment");
      int in = Sc.nextInt();
      String Hi [][] = new String [0][0];
      if ( in == 1 ) { ; }
      else if ( in == 2 ) { return Hi; }
      else { Food f = new Food (); f.foodlist ();}System.out.print("\u000C");
      String Order[][] = new String [3][25];
      System.out.println("You can place a maximum of 25 orders only");
      String x;
      int x2;
      outer:
      for (int i = 0 ; i<25;)
      {  x2 = Display();
         System.out.println();
         System.out.println("Order no:"+(i+1));
         System.out.println("Please enter the item that you want");
         x = Sc.next();
         System.out.print("\u000C");
         Order [0][i] = Calc (x);
         Order [1][i] = Calc2 (x);
         System.out.println("Please enter quantity");
         Order [2][i] = Sc.next();
         System.out.print("\u000C");
         System.out.println("Oder Stored");
         System.out.println("Enter 1 to exit, 2 to continue ordering");
         x2 = Sc.nextInt();
         if ( x2 == 1){break outer;}
         else{i=i+1;}
         System.out.print("\u000C");  }return Order;}
      public static int Display()
      {
       String d[] = new String [25];
       d[0]="                              SNACK                                                            PRICE";
       d[1]="A. Popcorn - Small                                                                            Rs. 90";
       d[2]="B. Popcorn - Medium                                                                           Rs. 140";
       d[3]="C. Popcorn - Tub                                                                              Rs. 170";
       d[4]="D. Caramel Popcorn - Small                                                                    Rs. 150";
       d[5]="E. Caramel Popcorn - Regular                                                                  Rs. 210";
       d[6]="F. Chilli Popcorn - Small                                                                      Rs. 130";
       d[7]="G. Chilli Popcorn - Regular                                                                    Rs. 190";
       d[8]="H. Nachos - Small                                                                              Rs. 170";
       d[9]="I. Nachos - Regular                                                                            Rs. 250";
      d[10]="J. Momos - veg ( 10 pc. )                                                                       Rs. 250";
      d[11]="K. Momos - NonVeg ( 10 pc. )                                                                    Rs. 300";
```

```
        d[12]="L. Chilli corn - Small                                                                    Rs. 110";
        d[13]="M. Chilli corn - Regular                                                                  Rs. 160";
        d[14]="N. Salsa Sauce ( Additional )                                                             Rs. 50";
        d[15]="O. Cheesy Dip ( Additional )                                                              Rs. 50";
        d[16]="                              BEVERAGE";
        d[17]="P. Tea                                                                                    Rs. 60";
        d[18]="Q. Masala Tea                                                                             Rs. 100";
        d[19]="R. Hot Coffe                                                                             Rs. 70";
        d[20]="S. Cold Coffe                                                                             Rs. 150";
        d[21]="T. Soft Drink ( Coke, ThumbsUp, Pepsi, Fanta, Mirinda,  Sprite, ) - Small       Rs. 70";
        d[22]="U. Soft Drink ( Coke, ThumbsUp, Pepsi, Fanta, Mirinda,  Sprite, ) - Regular Rs. 120";
        d[23]="V. Milkshake ( Vanilla, Strawberry, Chocolate, Butterscotch) - Regular         Rs. 200";
        d[24]="W. Milkshake ( Vanilla, Strawberry, Chocolate, Butterscotch) - Large           Rs. 270";
        for (int  i = 0 ; i< 25;i++)
        {System.out.println(d[i]);} return 0;}
    public static String Calc(String x)
    {
        if(x.equalsIgnoreCase("A")){return "Popcorn - Small";}
        else if(x.equalsIgnoreCase("B")){return "Popcorn - Medium";}
        else if(x.equalsIgnoreCase("C")){return "Popcorn - Tub";}
        else if(x.equalsIgnoreCase("D")){return "Caramel Popcorn - Small";}
        else if(x.equalsIgnoreCase("E")){return "Caramel Popcorn - Regular";}
        else if(x.equalsIgnoreCase("F")){return "Chilli Popcorn - Small";}
        else if(x.equalsIgnoreCase("G")){return "Chilli Popcorn - Regular";}
        else if(x.equalsIgnoreCase("H")){return "Nachos - Small";}
        else if(x.equalsIgnoreCase("I")){return "Nachos - Regular";}
        else if(x.equalsIgnoreCase("J")){return "Momos - veg";}
        else if(x.equalsIgnoreCase("K")){return "Momos - NonVeg";}
        else if(x.equalsIgnoreCase("L")){return "Chilli corn - Small";}
        else if(x.equalsIgnoreCase("M")){return "Chilli corn - Regular";}
        else if(x.equalsIgnoreCase("N")){return "Salsa Sauce ( Additional )";}
        else if(x.equalsIgnoreCase("O")){return "Cheesy Dip ( Additional )";}
        else if(x.equalsIgnoreCase("P")){return "Tea";}
        else if(x.equalsIgnoreCase("Q")){return "Masala Tea ";}
        else if(x.equalsIgnoreCase("R")){return "Hot Coffe";}
        else if(x.equalsIgnoreCase("S")){return "Cold Coffe";}
        else if(x.equalsIgnoreCase("T")){return "Soft Drink - Small";}
        else if(x.equalsIgnoreCase("U")){return "Soft Drink - Regular";}
        else if(x.equalsIgnoreCase("V")){return "Milkshake - Regular";}
        else if(x.equalsIgnoreCase("W")){return "Milkshake - Large";}
        else { return “";} }
    public static String Calc2(String x)
    {
        if(x.equalsIgnoreCase("A")){return “90";}  else if(x.equalsIgnoreCase("B")){return "140";}
        else if(x.equalsIgnoreCase("C")){return “170";}  else if(x.equalsIgnoreCase("D")){return "150";}
        else if(x.equalsIgnoreCase("E")){return “210";}  else if(x.equalsIgnoreCase("F")){return "130";}
        else if(x.equalsIgnoreCase("G")){return “190";}  else if(x.equalsIgnoreCase("H")){return "170";}
        else if(x.equalsIgnoreCase("I")){return “250";}   else if(x.equalsIgnoreCase("J")){return "250";}
        else if(x.equalsIgnoreCase("K")){return “300";}  else if(x.equalsIgnoreCase("L")){return "110";}
        else if(x.equalsIgnoreCase("M")){return "160";}   else if(x.equalsIgnoreCase("N")){return "50";}
        else if(x.equalsIgnoreCase("O")){return “50";}   else if(x.equalsIgnoreCase("P")){return "60";}
        else if(x.equalsIgnoreCase("Q")){return “100";}  else if(x.equalsIgnoreCase("R")){return "70";}
        else if(x.equalsIgnoreCase("S")){return “150";}  else if(x.equalsIgnoreCase("T")){return "70";}
        else if(x.equalsIgnoreCase("U")){return “120";}  else if(x.equalsIgnoreCase("V")){return "200";}
        else if(x.equalsIgnoreCase("W")){return “270";}  else { return “";}  }
}
```

Class: Bill

```
import java.util.Scanner;
import java.io.*;
public class Bill
{
    public int Bill1 ( String seat [][],String food [][], int code,String date,int time,int audi,int Day)
    {
        Scanner Sc = new Scanner ( System.in );
        Store s = null;
        System.out.print("\u000C");
        try {
            FileInputStream fileIn = new FileInputStream("Data.txt");
            ObjectInputStream in = new ObjectInputStream(fileIn);
            s = (Store) in.readObject();
            in.close();
            fileIn.close();
        }catch(IOException i) {
            i.printStackTrace();
            System.out.println("Store not found : ERROR 002");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }catch(ClassNotFoundException c) {
            System.out.println("Store not found : ERROR 002");
            c.printStackTrace();
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }
        System.out.println("Movie: "+s.movieList[code][0]);
        System.out.println("Language: "+s.movieList[code][1]);
        System.out.println("Duration: "+s.movieList[code][2]+"mins");
        System.out.println("Date: "+date);
        System.out.println("Time: "+time);
        System.out.println("Audi: "+audi);
        System.out.print("Seats: ");
        int Price = 0;
        for(int i = 0 ; i<96 ; ++i )
        {
            try{if(seat [0][i].equals("")||seat [0][i].equals(null)){;}
                else{
                    System.out.print(seat [0][i]+"  ");
                    Price = Price + Integer.valueOf(seat [1][i]);
                }}catch(Exception E){;}
        }
        System.out.println();
        try{
            if(food [0][0].equals("")||food [0][0].equals(null))
            {;}
            else
            {
```

```
            System.out.println("Food:");
            for(int i = 0 ; i<25 ; ++i )
            {

                if(food [2][i].equalsIgnoreCase(null) && food [0][i].equalsIgnoreCase(null))
                {
                    ;
                }
                else
                {
                    System.out.print(food [0][i]);
                    System.out.print(" : X"+food [2][i]);
                    Price = Price + (Integer.valueOf(food [1][i])*Integer.valueOf(food [2][i]));
                }
                System.out.println();
            }
        }
    }catch(Exception E){;}
    System.out.println();
    System.out.println("Internet Booking Charges : Rs.100");
    Price = Price + 100;
    System.out.println("Tax (28%) : Rs."+((Price/100)*28));
    Price = Price + ((Price/100)*28);
    System.out.println("Grand Total : Rs."+Price);
    System.out.println();
    System.out.println("1. Confirm");
    System.out.println("2. Cancel");
    int Choice = Sc.nextInt();
    if ( Choice == 1 ) {
        Choice = Payment(Price);
        if ( Choice == 0 )
        {
            return 0;
        }
        else
        {
            Choice = Bill2(seat,food,code,date,time,audi,Day);
            return 1;
        }
    }
    else
    {
        return 0;
    }
}

public static int Payment ( int Price )
{
    outer:
    while ( true )
    {
        System.out.print("\u000C");
        Scanner Sc = new Scanner ( System.in ) ;
        System.out.println("Please enter Payment option");
        System.out.println("1. Credit Card");
        System.out.println("2. Debit Card");
```

```
int x = Sc.nextInt();
if(x==1){;}else if (x==2){;} else{ continue outer;}
int l =0;
inner:
while(true)
{
    System.out.print("\u000C");
    System.out.println("Please enter yuor 16 digit account number");
    String x2 = Sc.next();
    l = x2.length();
    if((x2.equalsIgnoreCase("Exit"))||(x2.equalsIgnoreCase("E"))){return 0;}
    else if( (l < 16)||(l>16) ){
        System.out.println("16 digit account number not valid");
        System.out.println("Please try again");
        System.out.println("Enter \"EXIT\" to exit");
        try{Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        continue inner;}else{;}
    inner2:
    while(true)
    {
        System.out.print("\u000C");
        System.out.println("Please enter expiry date of card in format MMYY");
        x2 = Sc.next();
        l = x2.length();
        if((x2.equalsIgnoreCase("Exit"))||(x2.equalsIgnoreCase("E"))){return 0;}
        else if( (l < 4)||(l>4) ){
            System.out.println("Expiry date not valid");
            System.out.println("Please try again");
            System.out.println("Enter \"EXIT\" to exit");
            try{Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            continue inner2;} else{;}
        System.out.print("\u000C");
        System.out.println("Please enter name on the card");
        x2 = Sc.nextLine();
        inner3:
        while(true)
        {
            System.out.print("\u000C");
            System.out.println("Please enter the three digit cvv number of your card");
            x2 = Sc.next();
            l = x2.length();
            if((x2.equalsIgnoreCase("Exit"))||(x2.equalsIgnoreCase("E"))){return 0;}
            else if( (l < 3)||(l>3) ){System.out.println("3 digit cvv number not valid");
                System.out.println("Please try again");
                System.out.println("Enter \"EXIT\" to exit");
                try{Thread.sleep(3000);}
                catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                continue inner3;} else{;}
            System.out.print("\u000C");
            System.out.println("1. Confirm Payment of Rs."+Price);
            System.out.println("2. Cancel Payment");
            l = Sc.nextInt();
            if( l == 2 ){return 0;} else {;}
            inner4:
                    while(true)
                    {
                        System.out.print("\u000C");
                        double con = Math.random();
                        I = (int) (con*1000000);
                        System.out.println(I);
                        System.out.println("Please enter the above numbers for security check");
                        x = Sc.nextInt();
                        if(I==x){break outer;}else{
                            System.out.println("Security code did not match");
                            System.out.println("Please try again");
                            try{Thread.sleep(3000);}
                            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                            continue inner4;}
                    }
                }
            }
        }
    }
    return 1;
}

public static int Bill2(String seat[][],String food[][],int code,String date,int time,int audi,int Day)
{
    /**  try {*/Scanner Sc = new Scanner ( System.in);
    System.out.print("\u000C");
    Store s = null;
    try {
        FileInputStream fileIn = new FileInputStream("Data.txt");
        ObjectInputStream in = new ObjectInputStream(fileIn);
        s = (Store) in.readObject();
        in.close();
        fileIn.close();
    }catch(IOException i) {
        i.printStackTrace();
        System.out.println("Store not found : ERROR 002");
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }catch(ClassNotFoundException c) {
        System.out.println("Store not found : ERROR 002");
        c.printStackTrace();
        try{
            Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
    System.out.println("Please wait a moment while we prepare your tickets");
    try{
        Thread.sleep(3000);}
    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
    System.out.print("\u000C");
    int bk = (int) (Math.random()*100000000);
```

```
        int i = 0;
        String Seeeeet;
        outer:
        while ( true )
        {
            try {
                i=i+1;
                System.out.println("          I Cinemas ");
                Seeeeet = seat [0][i];
                System.out.println("");
                System.out.println("Movie: "+s.movieList[code][0]);
                System.out.println("Language: "+s.movieList[code][1]);
                System.out.println("Date: "+date);
                System.out.println("Time: "+time);
                System.out.println("Audi: "+audi);
                System.out.println("Seat: "+Seeeeet);
                System.out.println("Booking ID: "+bk);
                System.out.println("");
                System.out.println("*****************************************************************");
                bk=bk+1;

            }
            catch ( Exception E ) { break outer ;}

        }
        System.out.println("");
        System.out.println("If you have odered food online, please show your");
        System.out.println(" Booking ID at the food counter at the cinemas" );
        System.out.println("");
        System.out.println("Enter any character to exit");
        String h = Sc.nextLine();
        System.out.print("\u000C");
        System.out.println("        Thank You For Using I Cinemas ");
        System.out.println(" We Hope You Have A Great Cinematic Experience");
        try{
        Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        System.out.println("        Thank You For Using I Cinemas ");
        System.out.println(" We Hope You Have A Great Cinematic Experience");
        try{
        Thread.sleep(3000);}
        catch ( InterruptedException ex){Thread.currentThread().interrupt();}
        System.out.print("\u000C");
        return 1;
    }
}
```

Class: Print

```
import java.io.*;
public class Print
{
    public int print ( int Audi)
    {
        int catchreturn;
        if(Audi == 1){catchreturn = PrintA1();}
        else {catchreturn = PrintA3();}
        return 1; }
        public int PrintA1 ()
        {
        Store s = null;
        try {
            FileInputStream fileIn = new FileInputStream("Data.txt");
            ObjectInputStream in = new ObjectInputStream(fileIn);
            s = (Store) in.readObject();
            in.close();
            fileIn.close();
        }catch(IOException i) {
            i.printStackTrace();
            System.out.println("Store not found : ERROR 002");
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
        }catch(ClassNotFoundException c) {
            System.out.println("Store not found : ERROR 002");
            c.printStackTrace();
            try{
                Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1; }
            for(int i = 0, j = 0, c = 0; c < 238 ; ++c )
        {
            if(j <= 11 )
            {
                System.out.print(s.formatAudi1 [i][j]+"  " );
                if(i==16)
                {
                    System.out.println("l");
                    i=0;
                    ++j;
                }else{
                    ++i;} }
            else
            {
                System.out.print(s.formatAudi1 [i][j] );
                if(i==16)
                {
                    System.out.println();
                    i=0;
```

```
          ++j;
        }else{
          ++i;}} }
    System.out.println();
    System.out.println(" [] -> Available");
    System.out.println(" # -> Booked");
    return 1; }
    public int PrintA3 ()
    {
    Store s = null;
    try {
      FileInputStream fileIn = new FileInputStream("Data.txt");
      ObjectInputStream in = new ObjectInputStream(fileIn);
      s = (Store) in.readObject();
      in.close();
      fileIn.close();
    }catch(IOException i) {
      i.printStackTrace();
      System.out.println("Store not found : ERROR 002");
      try{
        Thread.sleep(3000);}
      catch ( InterruptedException ex){Thread.currentThread().interrupt();}
      System.out.print("\u000C");
      return 1;
    }catch(ClassNotFoundException c) {
      System.out.println("Store not found : ERROR 002");
      c.printStackTrace();
      try{
        Thread.sleep(3000);}
      catch ( InterruptedException ex){Thread.currentThread().interrupt();}
      System.out.print("\u000C");
      return 1; }
    for(int i = 0, j = 0, c = 0; c < 144 ; ++c )
    {
      System.out.print(s.formatAudi3 [i][j]);
      if(i==11)
      {
        if(j == 11) {
          System.out.println("l");
          break;
        }
        else if ( j > 9 ) {
          System.out.println("l");
          System.out.println("\t\t\t\t\t\t\t      l");
        }
        else {
          System.out.println("  l");
          System.out.println("\t\t\t\t\t\t\t      l");
        }
        i=0;
        ++j;  }else{
        ++i;} }
        System.out.println();   System.out.println(" [ ] -> Available”);
    System.out.println(" [[#]] -> Booked”);   return 1; }
}
```

Class: DeCode

```
public class DeCode
{
    public static String decode (int Audi, String Seat)
    {
        String A1 [][] = new String [17][14];
        String A2 [][] = new String [12][12];
        A1 [2][2]="A1";A1 [4][2]="A3";A1 [6][2]="A5";A1 [10][2]="A9";
        A1 [3][2]="A2";A1 [5][2]="A4";A1 [7][2]="A6";A1 [11][2]="A10";
        A1 [12][2]="A11";A1 [13][2]="A12";A1 [14][2]="A13";A1 [15][2]="A14";
        A1 [2][3]="B1";A1 [4][2]="B3";A1 [6][3]="B5";A1 [10][3]="B9";
        A1 [3][3]="B2";A1 [5][2]="B4";A1 [7][3]="B6";A1 [11][3]="B10";
        A1 [12][3]="B11";A1 [13][2]="B12";A1 [14][3]="B13";A1 [15][3]="B14";
        A1 [2][4]="C1"; A1  [4][4]="C3"; A1  [6][4]="C5"; A1 [10][4]="C9";
        A1 [3][4]="C2"; A1  [5][4]="C4"; A1  [7][4]="C6"; A1 [11][4]="C10";
        A1 [12][4]="C11";A1 [13][4]="C12";A1 [14][4]="C13";A1 [15][4]="C14";
        A1  [2][6]="D1";  A1 [3][6]="D2";  A1 [4][6]="D3";  A1 [6][6]="D5";
        A1  [7][6]="D6";  A1 [8][6]="D7";  A1 [9][6]="D8"; A1 [10][6]="D9";
        A1 [11][6]="D10";A1 [13][6]="D12";A1 [14][6]="D13";A1 [15][6]="D14";
        A1  [2][7]="E1";  A1 [3][7]="E2";  A1 [4][7]="E3";  A1 [6][7]="E5";
        A1  [7][7]="E6";  A1 [8][7]="E7";  A1 [9][7]="E8"; A1 [10][7]="E9";
        A1 [11][7]="E10";A1 [13][7]="E12";A1 [14][7]="E13";A1 [15][7]="E14";
        A1  [2][8]="F1";  A1 [3][8]="F2";  A1 [4][8]="F3";  A1 [6][8]="F5";
        A1  [7][8]="F6";  A1 [8][8]="F7";  A1 [9][8]="F8"; A1 [10][8]="F9";
        A1 [11][8]="F10";A1 [13][8]="F12";A1 [14][8]="F13";A1 [15][8]="F14";
        A1  [2][9]="G1";  A1 [3][9]="G2";  A1 [4][9]="G3";  A1 [6][9]="G5";
        A1  [7][9]="G6";  A1 [8][9]="G7";  A1 [9][9]="G8"; A1 [10][9]="G9";
        A1 [11][9]="G10";A1 [13][9]="G12";A1 [14][9]="G13";A1 [15][9]="G14";
        A1  [2][10]="H1";  A1 [3][10]="H2";  A1 [4][10]="H3";  A1 [6][10]="H5";
        A1  [7][10]="H6";  A1 [8][10]="H7";  A1 [9][10]="H8"; A1 [10][10]="H9";
        A1 [11][10]="H10";A1 [13][10]="H12";A1 [14][10]="H13";A1 [15][10]="H14";
        A2 [2][2] = "A1";A2 [4][2] = "A2";A2 [6][2] = "A3";A2 [8][2] = "A4";A2 [10][2] = "A5";
        A2 [2][3] = "B1";A2 [4][3] = "B2";A2 [6][3] = "B3";A2 [8][3] = "B4";A2 [10][3] = "B5";
        A2 [2][4] = "C1";A2 [4][4] = "C2";A2 [6][4] = "C3";A2 [8][4] = "C4";A2 [10][4] = "C5";
        A2 [2][6] = "D1";A2 [4][6] = "D2";A2 [6][6] = "D3";A2 [8][6] = "D4";A2 [10][6] = "D5";
        A2 [2][7] = "E1";A2 [4][7] = "E2";A2 [6][7] = "E3";A2 [8][7] = "E4";A2 [10][7] = "E5";
        A2 [2][8] = "F1";A2 [4][8] = "F2";A2 [6][8] = "F3";A2 [8][8] = "F4";A2 [10][8] = "F5";
        try{  if ( (Audi == 1 )||( Audi == 2 )) {
            for ( int i = 0, j = 0,c = 0;c<238;++c)
            {     if(A1[i][j].equalsIgnoreCase(Seat)){
                    return (String)(i+"."+j);
                } else{
                    if(i==16){i=0;++j;}
                    else{++i;}} } }
        else if ( Audi == 3 )
        {    for ( int i = 0, j = 0,c = 0;c<144;++c)
            {    try{if(A2[i][j].equalsIgnoreCase(Seat)){
                    return (String)(i+”."+j);  }
                else{   if(i==11){i=0;++j;}
                    else{++i;}   }}catch(Exception E){;}  }
        }}catch(Exception E ){;}
        return "NO";
    }  }
```

Class: Price

```
import java.io.*;
public class Price
{
  public String [][] price ( String in [] , int Audi , int no)
  {
     DeCode D = new DeCode ();
     String out [][] = new String [2][no];
     String temp = "";
     int index;
     int row =0;
     for( int i = 1,j=0; i<no ; ++i )
     {
       if ( ( Audi == 1 ) || ( Audi == 2 )){
        temp = D.decode(1,in[i]);}
       else if ( Audi == 3){
        temp = D.decode(3,in[i]);}
       else { ; }
       index = temp.indexOf(".");
       try{row = Integer.valueOf(temp.substring((index+1),(temp.length())));}catch(Exception E){;}
       if ( ( Audi == 1 ) || ( Audi == 2 )){
          if((row==2)||(row==3)||(row==4)){
             out [0][i] = in[i];
             out [1][i] = "240";
            }
            else{
              out [0][i] = in[i];
             out [1][i] = "190";
            }
         }
       else if ( Audi == 3 ){
          if((row==2)||(row==3)||(row==4)){
             out [0][i] = in[i];
             out [1][i] = "1200";
            }
            else{
              out [0][i] = in[i];
             out [1][i] = "1000";
            }
         }
      }
     return out ;
   }
}
```

Class: Show

```
 import java.util.Scanner;
import java.io.*;
public class Show
{
   public int NowPlaying ( )
   {
      Scanner Sc = new Scanner ( System.in );
      String Choice;
      int temp = -1;
      char a = 'A';
      String b = a+". ";
      int arr [] = new int [50];
      String code;
      Outer :
      while ( true )
      {
         Store s = null;
         try {
            FileInputStream fileIn = new FileInputStream("Data.txt");
            ObjectInputStream in = new ObjectInputStream(fileIn);
            s = (Store) in.readObject();
            in.close();
            fileIn.close();
         }catch(IOException i) {
            i.printStackTrace();
            System.out.println("Store not found : ERROR 002");
            try{
               Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
         }catch(ClassNotFoundException c) {
            System.out.println("Store not found : ERROR 002");
            c.printStackTrace();
            try{
               Thread.sleep(3000);}
            catch ( InterruptedException ex){Thread.currentThread().interrupt();}
            System.out.print("\u000C");
            return 1;
         }
         for ( int i = 0; i<50;++i)
         {
            arr[i]=-1;
         }
         for ( int i =0,j=0,c=0,d=0;c<49;++c)
         {
            if(!s.movieList[i][j].equals(""))
            {
               if((j==0) && (i>0))
               {
                  System.out.print(b);
                  ++a;
                  b=a+". ";
                  arr[d]=i;
                  ++d;
               }
               else
               {

               }
               System.out.print(s.movieList[i][j]+"\t");
               System.out.print("\tl");
               if(j==2)
               {
                  ++i;
                  j=0;
                  System.out.println();
               }
               else
               {
                  ++j;
               }
            }
            else
            {
               ++i;
            }
         }
         System.out.println();
         System.out.println("Please enter the movie you want to see the timings for");
         System.out.println("Enter \"EXIT\" to exit");
         Choice = Sc.nextLine();
         System.out.print("\u000C");
         if((Choice.equalsIgnoreCase("EXIT")))
         {
            System.out.print("\u000C");
            return 1;
         }
         else
            ;
         a = 'A';
         in :
         for(int i = 0;i<50;++i)
         {
            b = a+"";
            if(Choice.equalsIgnoreCase(b))
            {
               temp = arr[i];
               break in;
            }
            else
            {
               ++a;
            }
         }
         if(temp == -1)
         {
            System.out.println("ERROR:200");
            try{
```

```
                    Thread.sleep(3000);}
                catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                System.out.print("\u000C");
                continue Outer;
            }
            else
            {
                System.out.print("\u000C");
            }
            code = s.movieList[temp][3];
            Inner :
            while ( true )
            {
                System.out.print(" Mavie: "+s.movieList[temp][0]+" | Language: "+s.movieList[temp][1]);
                System.out.print(" | Duration: "+s.movieList[temp][2]+" mins");
                System.out.println();
                System.out.println("Please enter the day for which you want to see the timings");
                System.out.println("1. Monday");
                System.out.println("2. Tuesday");
                System.out.println("3. Wednesday");
                System.out.println("4. Thursday");
                System.out.println("5. Friday");
                System.out.println("6. Saturday");
                System.out.println("7. Sunday");
                System.out.println("8. Exit");
                Choice = Sc.nextLine();
                System.out.print("\u000C");
                if((Choice.equalsIgnoreCase("E"))||(Choice.equalsIgnoreCase("EXIT"))||
(Choice.equalsIgnoreCase("8")))
                {
                    System.out.print("\u000C");
                    continue Outer;
                }

                if(Choice.equalsIgnoreCase("Monday")||Choice.equalsIgnoreCase("1"))
                {

                    for(int i = 0;i<2359;++i)
                    {    if((s.D1 [i][1]).startsWith(code+".S"))
                            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
                        else
                            ;
                        if((s.D1 [i][2]).startsWith(code+".S"))
                            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
                        else
                            ;
                        if((s.D1 [i][3]).startsWith(code+".S"))
                            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
                        else
                            ;

                    }
                    System.out.println("Enter any character to exit");
                    Choice = Sc.nextLine();
                    Choice = "ERROR";
                    System.out.print("\u000C");
```

```
   continue Inner;
}
else if(Choice.equalsIgnoreCase("Tuesday")||Choice.equalsIgnoreCase("2"))
{
   for(int i = 0;i<2359;++i)
   {   if((s.D2 [i][1]).startsWith(code+".S"))
         System.out.println("-> Audi:1    Time:"+i+" Hrs.");
      else
         ;
      if((s.D2 [i][2]).startsWith(code+".S"))
         System.out.println("-> Audi:2    Time:"+i+" Hrs.");
      else
         ;
      if((s.D2 [i][3]).startsWith(code+".S"))
         System.out.println("-> Audi:3    Time:"+i+" Hrs.");
      else
         ;

   }
   System.out.println("Enter any character to exit");
   Choice = Sc.nextLine();
   Choice = "ERROR";
   System.out.print("\u000C");
   continue Inner;
}
else if(Choice.equalsIgnoreCase("Wednesday")||Choice.equalsIgnoreCase("3"))
{
   for(int i = 0;i<2359;++i)
   {   if((s.D3 [i][1]).startsWith(code+".S"))
         System.out.println("-> Audi:1    Time:"+i+" Hrs.");
      else
         ;
      if((s.D3 [i][2]).startsWith(code+".S"))
         System.out.println("-> Audi:2    Time:"+i+" Hrs.");
      else
         ;
      if((s.D3 [i][3]).startsWith(code+".S"))
         System.out.println("-> Audi:3    Time:"+i+" Hrs.");
      else
         ;

   }
   System.out.println("Enter any character to exit");
   Choice = Sc.nextLine();
   Choice = "ERROR";
   System.out.print("\u000C");
   continue Inner;
}
else if(Choice.equalsIgnoreCase("Thursday")||Choice.equalsIgnoreCase("4"))
{
   for(int i = 0;i<2359;++i)
   {   if((s.D4 [i][1]).startsWith(code+".S"))
         System.out.println("-> Audi:1    Time:"+i+" Hrs.");
      else
         ;
      if((s.D4 [i][2]).startsWith(code+".S"))
```

```
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D4 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;

    }
    System.out.println("Enter any character to exit");
    Choice = Sc.nextLine();
    Choice = "ERROR";
    System.out.print("\u000C");
    continue Inner;
}
else if(Choice.equalsIgnoreCase("Friday")||Choice.equalsIgnoreCase("5"))
{
    for(int i = 0;i<2359;++i)
    {   if((s.D5 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
        else
            ;
        if((s.D5 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D5 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;

    }
    System.out.println("Enter any character to exit");
    Choice = Sc.nextLine();
    Choice = "ERROR";
    System.out.print("\u000C");
    continue Inner;
}
else if(Choice.equalsIgnoreCase("Saturday")||Choice.equalsIgnoreCase("6"))
{
    for(int i = 0;i<2359;++i)
    {   if((s.D6 [i][1]).startsWith(code+".S"))
            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
        else
            ;
        if((s.D6 [i][2]).startsWith(code+".S"))
            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
        else
            ;
        if((s.D6 [i][3]).startsWith(code+".S"))
            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
        else
            ;

    }
    System.out.println("Enter any character to exit");
```

```
                    Choice = Sc.nextLine();
                    Choice = "ERROR";
                    System.out.print("\u000C");
                    continue Inner;
                }
                else if(Choice.equalsIgnoreCase("Sunday")||Choice.equalsIgnoreCase("7"))
                {
                    for(int i = 0;i<2359;++i)
                    {   if((s.D7 [i][1]).startsWith(code+".S"))
                            System.out.println("-> Audi:1    Time:"+i+" Hrs.");
                        else
                            ;
                        if((s.D7 [i][2]).startsWith(code+".S"))
                            System.out.println("-> Audi:2    Time:"+i+" Hrs.");
                        else
                            ;
                        if((s.D7 [i][3]).startsWith(code+".S"))
                            System.out.println("-> Audi:3    Time:"+i+" Hrs.");
                        else
                            ;

                    }
                    System.out.println("Enter any character to exit");
                    Choice = Sc.nextLine();
                    Choice = "ERROR";
                    System.out.print("\u000C");
                    continue Inner;
                }
                else
                {   System.out.println("ERROR");
                    try{
                        Thread.sleep(3000);}
                    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                    System.out.print("\u000C");

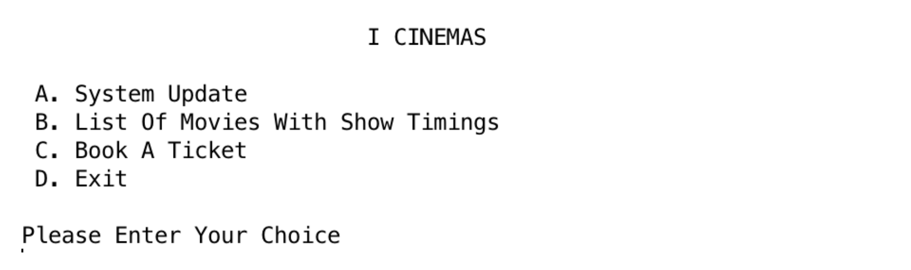
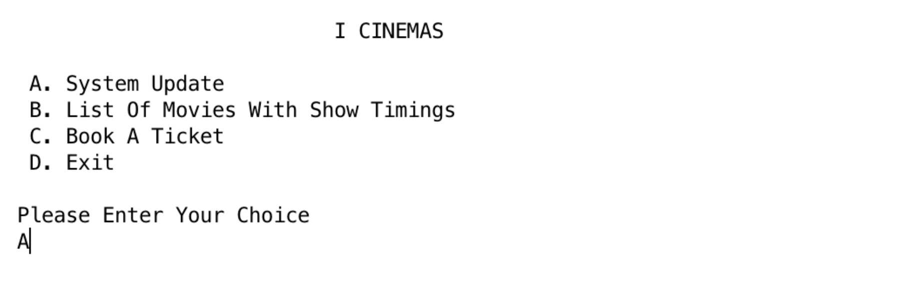
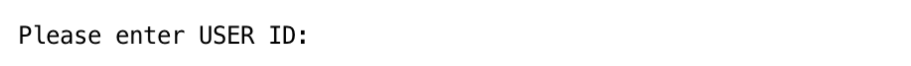
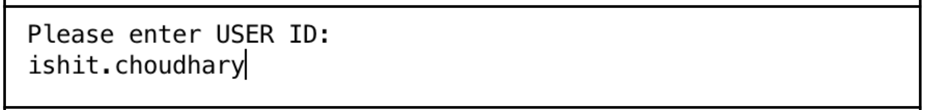
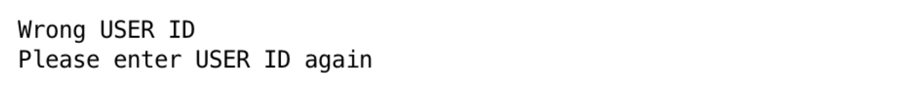
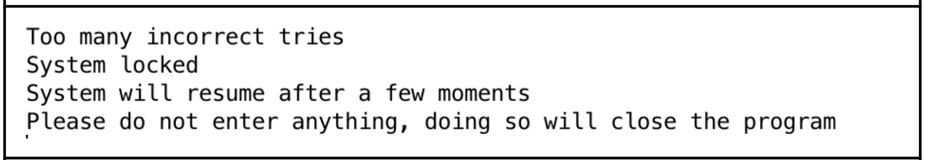
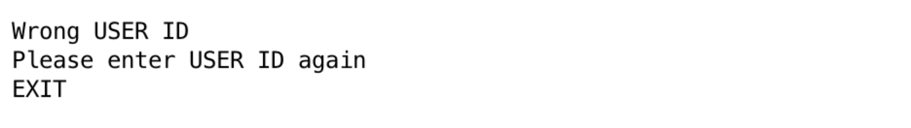
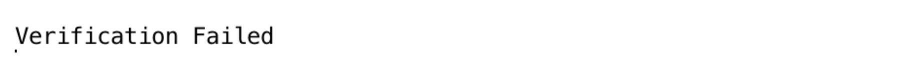
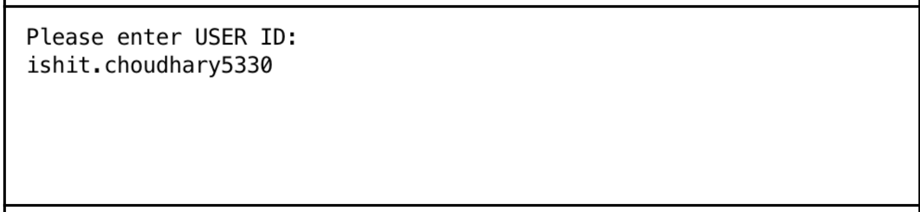
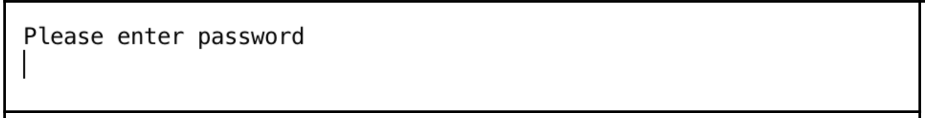
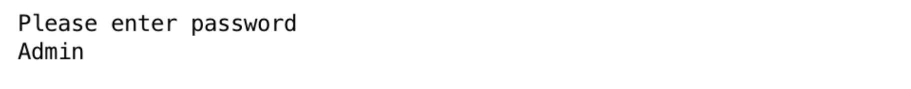
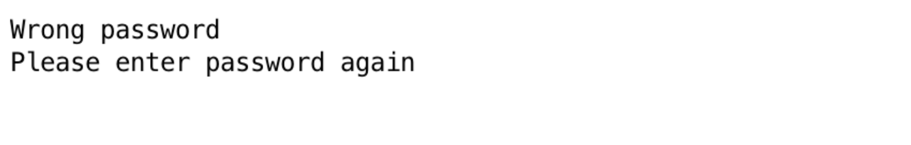
                }
                try {
                    FileOutputStream fileOut =
                        new FileOutputStream("Data.txt");
                    ObjectOutputStream out = new ObjectOutputStream(fileOut);
                    out.writeObject(s);
                    out.close();
                    fileOut.close();
                    System.out.print("\u000C");
                    System.out.printf("");
                }catch(IOException i) {
                    i.printStackTrace();
                    System.out.printf("ERROR 000");
                    try{
                        Thread.sleep(3000);}
                    catch ( InterruptedException ex){Thread.currentThread().interrupt();}
                    System.out.print("\u000C");
                    continue Outer;
                }}}}
}
```

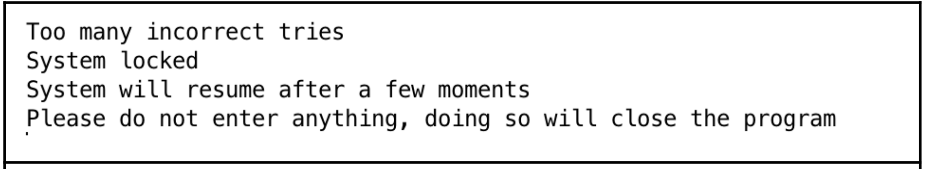
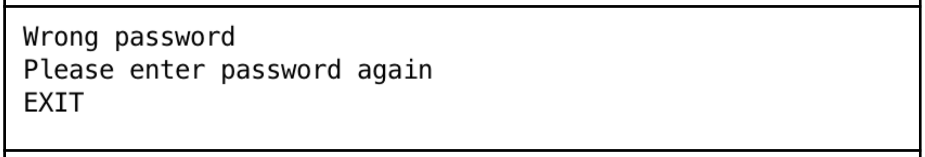
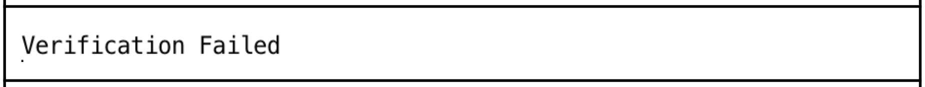
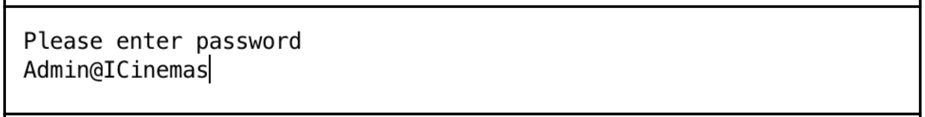
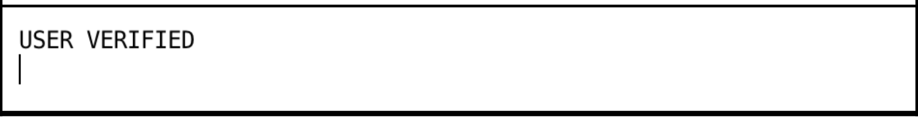
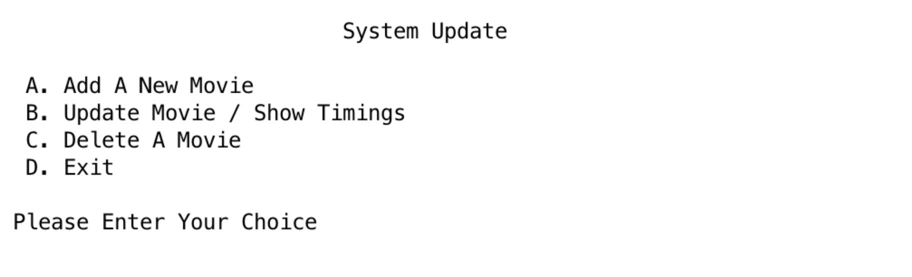
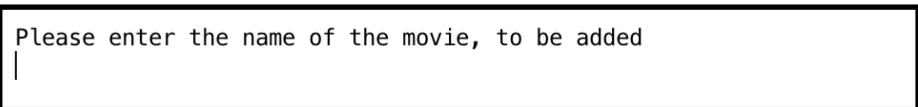
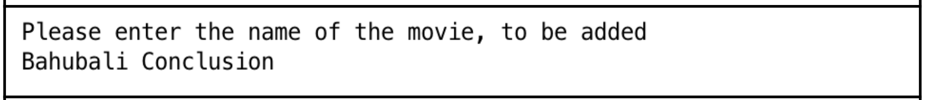
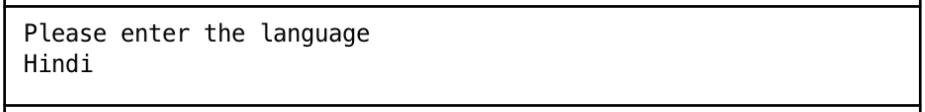
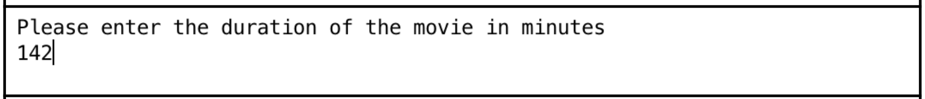
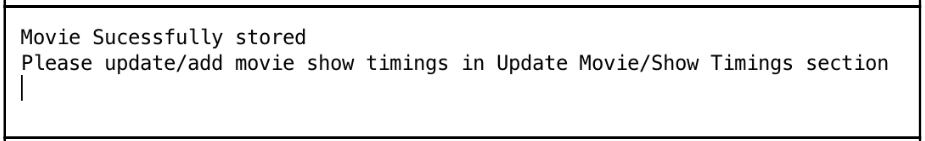
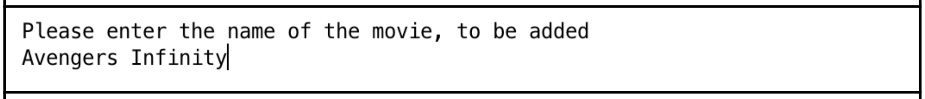
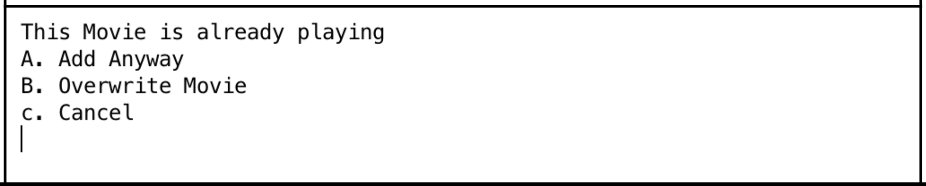
Class: Main

```
public class Main
{

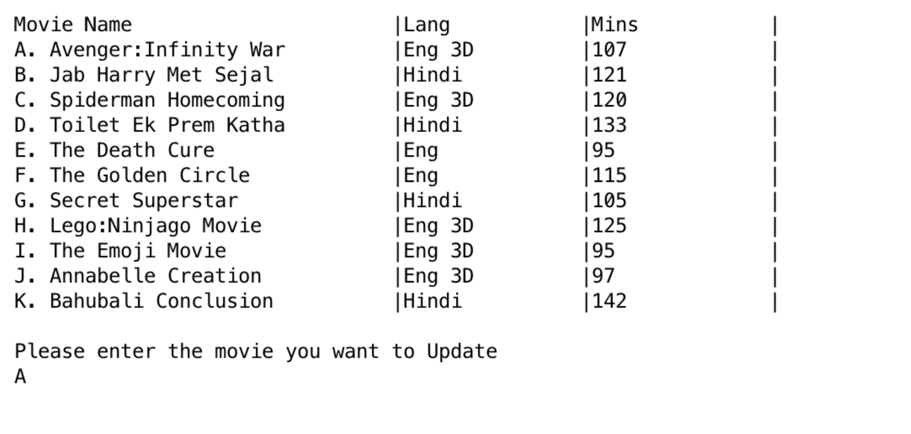
    public static void main ( String [] args )
    {
        String Choice;
        boolean result = false;
        Login l = new Login();
        SystemUpdate SU = new SystemUpdate();
        Show Sh = new Show ();
        Book B = new Book ();
        Screen S = new Screen ();
        int a;
        while ( true )
        {
            Choice = S.Screen_1();
            result = false;
            if(Choice.equalsIgnoreCase("A"))
            {
                SystemUpdate S_U = new SystemUpdate();
                result = l.login();
                if(result==true)
                    a = SU.systemupdate();
                else
                    System.out.print("\u000C");
                continue;
            }
            else if(Choice.equalsIgnoreCase("B"))
            {
                a = Sh.NowPlaying();
                continue;
            }
            else if(Choice.equalsIgnoreCase("C"))
            {
                a = B.book();
                continue;
            }
            else if(Choice.equalsIgnoreCase("D")||Choice.equalsIgnoreCase("E")||
Choice.equalsIgnoreCase("EXIT"))
            {
                break;
            }
            else
            {
                System.out.println("Please enter a valid choice");
                continue;
            }
        }
        System.exit(0);
    }
}
```

Output Screenshots

S.No	Output Screenshot	Explantion
	HOME SCREEN	
1	 I CINEMAS A. System Update B. List Of Movies With Show Timings C. Book A Ticket D. Exit Please Enter Your Choice  I CINEMAS A. System Update B. List Of Movies With Show Timings C. Book A Ticket D. Exit Please Enter Your Choice A	The starting screen asks the user to input his/her choice. Any option other than specified by the menu would produce no change. "Exit" or "E" will have the same effect as option "D", i.e. to exit the program. Choosing option "A" or "a" would take the user to the login domain. The user must know the userID and password to proceed further.
	LOGIN	
	 Please enter USER ID:  Please enter USER ID: ishit.choudhary  Wrong USER ID Please enter USER ID again  Too many incorrect tries System locked System will resume after a few moments Please do not enter anything, doing so will close the program  Wrong USER ID Please enter USER ID again EXIT  Verification Failed  Please enter USER ID: ishit.choudhary5330	Now the program asks for the user ID as System can only be updated by an authorised person. On entering the wrong user ID the program displays an appropriate message and asks for the user ID again. Three incorrect tries freezes the system for 10 seconds for security purposes. Entering "EXIT" or "E" returns to the home page. Exiting this page causes a Verification Failed message to pop up before returning to the home page. On entering the correct User ID the program moves on to ask the password.
	 Please enter password  Please enter password Admin  Wrong password Please enter password again	Now the program asks for the password for security purposes. On entering the wrong password the program displays an appropriate message and asks for the password again. Three incorrect tries freezes the system for

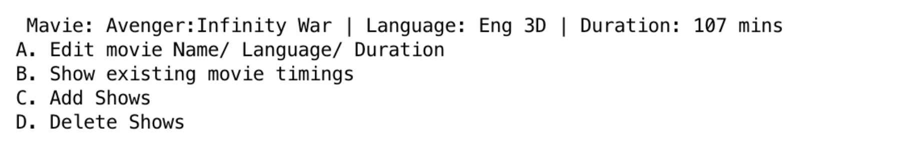
	 Too many incorrect tries System locked System will resume after a few moments Please do not enter anything, doing so will close the program	10 seconds for security purposes. Entering “EXIT” or “E” returns to the home page. Exiting this page causes a Verification Failed message to pop up before returning to the home page. On entering the correct password the program moves on to the System Update page. Password is case sensitive unlike the user ID.
	 Wrong password Please enter password again EXIT	
	 Verification Failed	
	 Please enter password Admin@ICinemas	
	 USER VERIFIED	
SYSTEM UPDATE		
1A	 System Update A. Add A New Movie B. Update Movie / Show Timings C. Delete A Movie D. Exit Please Enter Your Choice	The System Update page has three options to add or delete a movie or to update an existing movie, its show timing. “E” or “EXIT” returns to the home page.
HOME >> SYSTEM UPDATE >> Add a Movie		
1A A	 Please enter the name of the movie, to be added	On entering “A”, the program now asks for the name, language and duration of the movie that needs to be added. Upon storing the details the program displays an appropriate message. While entering the name of the movie, the program checks if that movie is already playing. If such a case occurs then the program gives the user the freedom of keeping both the movies or to overwrite the existing one (This feature can be used to modify language and duration of an existing movie).
	 Please enter the name of the movie, to be added Bahubali Conclusion	
	 Please enter the language Hindi	
	 Please enter the duration of the movie in minutes 142	
	 Movie Sucessfully stored Please update/add movie show timings in Update Movie/Show Timings section	
	 Please enter the name of the movie, to be added Avengers Infinity	
	 This Movie is already playing A. Add Anyway B. Overwrite Movie c. Cancel	
HOME >> SYSTEM UPDATE >> Update movie/show timings		

1A B



```
Movie Name                      |Lang           |Mins           |
A. Avenger:Infinity War         |Eng 3D         |107            |
B. Jab Harry Met Sejal          |Hindi          |121            |
C. Spiderman Homecoming         |Eng 3D         |120            |
D. Toilet Ek Prem Katha         |Hindi          |133            |
E. The Death Cure               |Eng            |95             |
F. The Golden Circle            |Eng            |115            |
G. Secret Superstar             |Hindi          |105            |
H. Lego:Ninjago Movie           |Eng 3D         |125            |
I. The Emoji Movie              |Eng 3D         |95             |
J. Annabelle Creation           |Eng 3D         |97             |
K. Bahubali Conclusion          |Hindi          |142            |

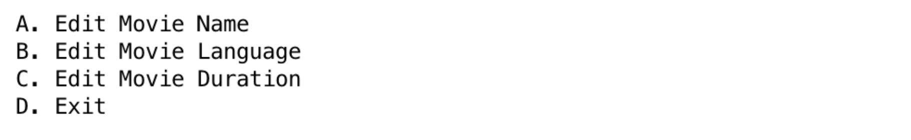
Please enter the movie you want to Update
A
```



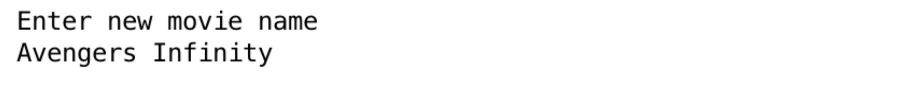
```
 Mavie: Avenger:Infinity War | Language: Eng 3D | Duration: 107 mins
A. Edit movie Name/ Language/ Duration
B. Show existing movie timings
C. Add Shows
D. Delete Shows
```

On entering “B”, the program displays the list of movies and asks for the movie that needs to be updated. After selecting the movie, the program gives the user the option to (i) edit the movie’s name, language or duration, (ii) to show the movie’s existing timings, (iii) to add shows for that movie, and (iv) to delete existing shows of the movie.

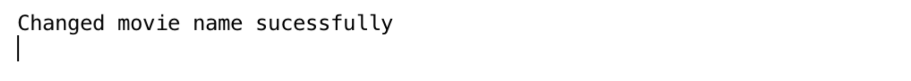
1A B A



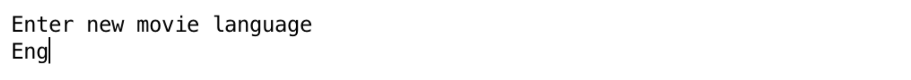
```
A. Edit Movie Name
B. Edit Movie Language
C. Edit Movie Duration
D. Exit
```



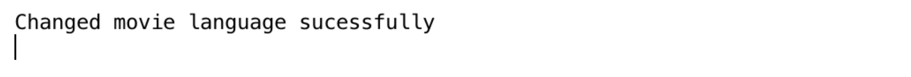
```
Enter new movie name
Avengers Infinity
```



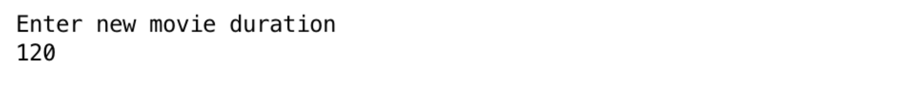
```
Changed movie name sucessfully
|
```



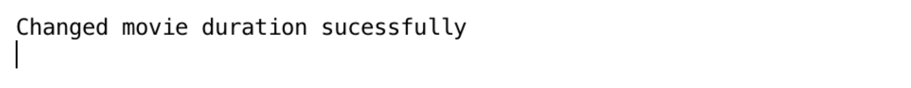
```
Enter new movie language
Eng|
```



```
Changed movie language sucessfully
|
```



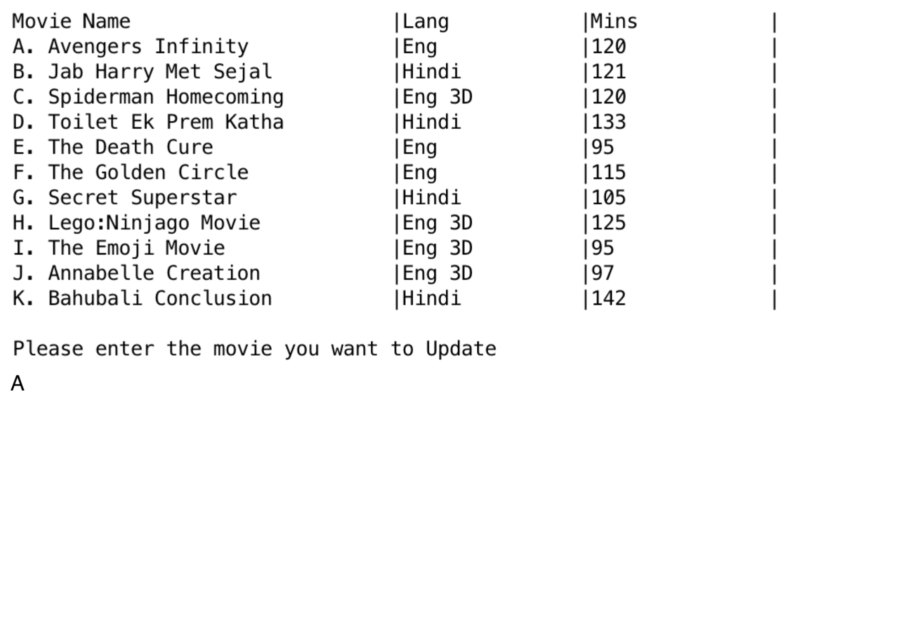
```
Enter new movie duration
120
```



```
Changed movie duration sucessfully
|
```

On entering "A", the user can choose to change the name, language or duration of the selected movie. After updating any of the parameters of the movie, the program displays an appropriate message before moving to the System Update screen.
In case of an error, the program handles it by displaying an appropriate message before moving to the System Update screen without making any changes.

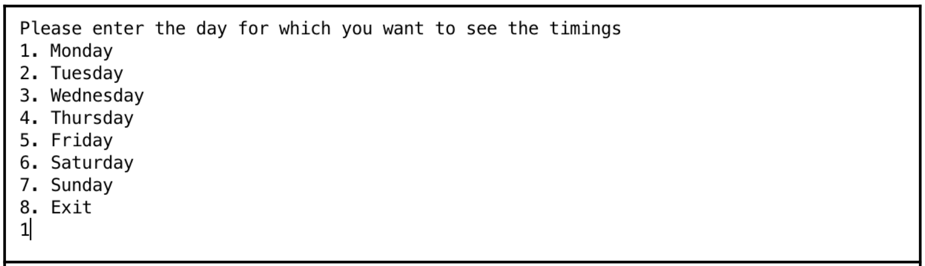
1A B B



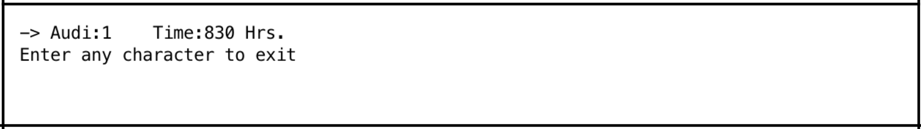
```
Movie Name                      |Lang           |Mins           |
A. Avengers Infinity            |Eng            |120            |
B. Jab Harry Met Sejal          |Hindi          |121            |
C. Spiderman Homecoming         |Eng 3D         |120            |
D. Toilet Ek Prem Katha         |Hindi          |133            |
E. The Death Cure               |Eng            |95             |
F. The Golden Circle            |Eng            |115            |
G. Secret Superstar             |Hindi          |105            |
H. Lego:Ninjago Movie           |Eng 3D         |125            |
I. The Emoji Movie              |Eng 3D         |95             |
J. Annabelle Creation           |Eng 3D         |97             |
K. Bahubali Conclusion          |Hindi          |142            |

Please enter the movie you want to Update
A
```

On entering “B”, the program displays the list of movies and asks for the movie for which the user needs to see the existing show timings.
After selecting the movie the program asks for the day for which the user needs to see the timings.
Now, the program lists down all the shows of that particular movie across all audis for that day of the week.
After seeing the timings the user may



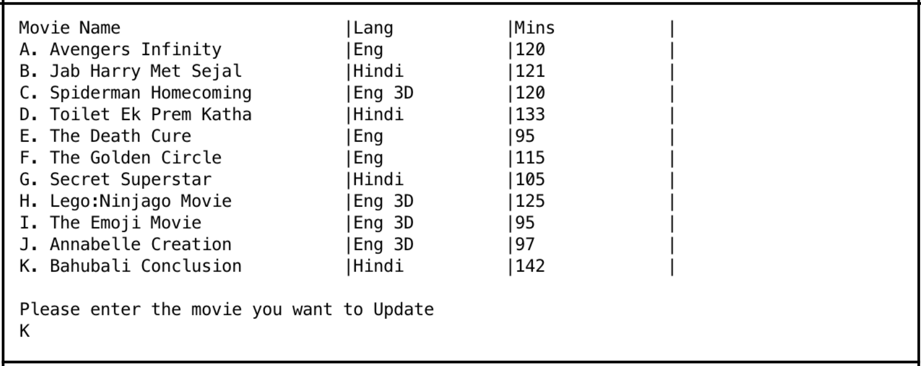
```
Please enter the day for which you want to see the timings
1. Monday
2. Tuesday
3. Wednesday
4. Thursday
5. Friday
6. Saturday
7. Sunday
8. Exit
1
```



```
-> Audi:1    Time:830 Hrs.
Enter any character to exit
```

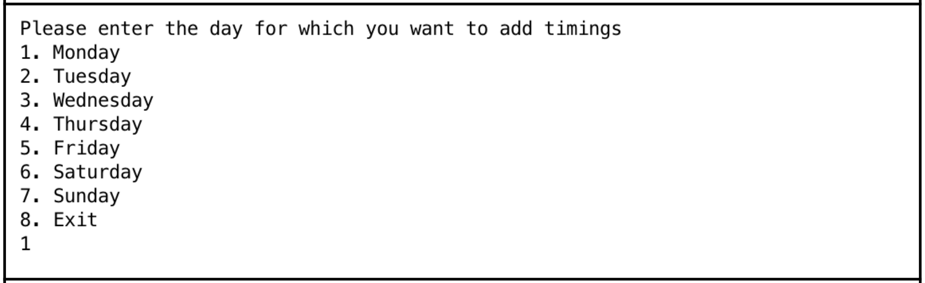
enter any character to exit. Entering “Exit” at any point, returns the user to the System Update screen.

1A B C

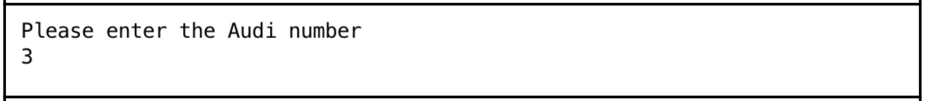


```
Movie Name                      |Lang           |Mins           |
A. Avengers Infinity            |Eng            |120            |
B. Jab Harry Met Sejal          |Hindi          |121            |
C. Spiderman Homecoming         |Eng 3D         |120            |
D. Toilet Ek Prem Katha         |Hindi          |133            |
E. The Death Cure               |Eng            |95             |
F. The Golden Circle            |Eng            |115            |
G. Secret Superstar             |Hindi          |105            |
H. Lego:Ninjago Movie           |Eng 3D         |125            |
I. The Emoji Movie              |Eng 3D         |95             |
J. Annabelle Creation           |Eng 3D         |97             |
K. Bahubali Conclusion          |Hindi          |142            |

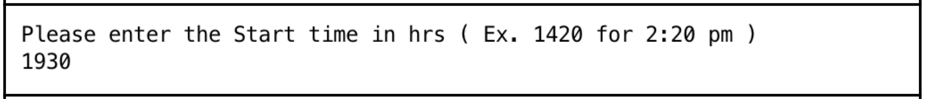
Please enter the movie you want to Update
K
```



```
Please enter the day for which you want to add timings
1. Monday
2. Tuesday
3. Wednesday
4. Thursday
5. Friday
6. Saturday
7. Sunday
8. Exit
1
```

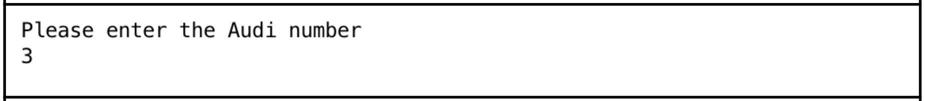


```
Please enter the Audi number
3
```

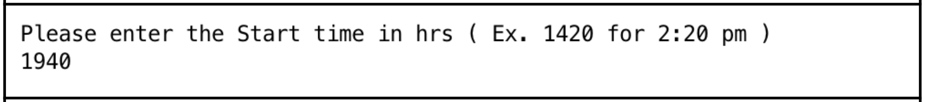


```
Please enter the Start time in hrs ( Ex. 1420 for 2:20 pm )
1930
```

```
Timing stored
```



```
Please enter the Audi number
3
```

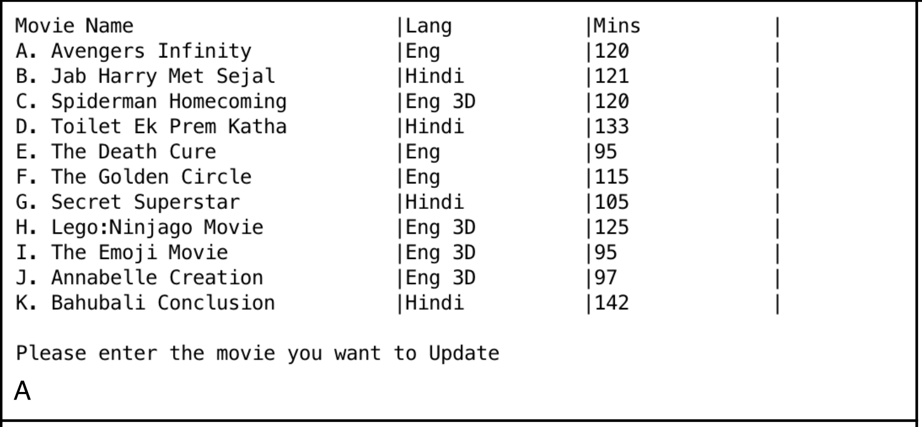


```
Please enter the Start time in hrs ( Ex. 1420 for 2:20 pm )
1940
```

```
Time Slot already Booked
Please Try Again
```

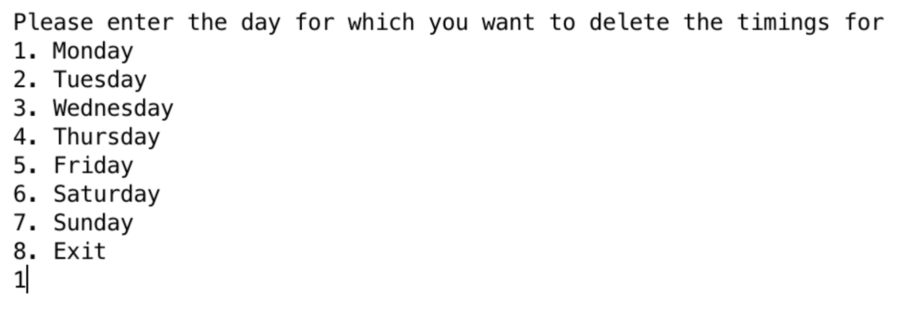
On entering “C”, the program displays the list of movies and asks for the movie for which the user needs to add shows.
After that the program asks the user the day on which the user needs to add the show.
After that the program asks for the Audi in which the show needs to be added and the timing of the show.
If no other movie is playing at that time in that Audi, then the program displays a message of timing stored. If another movie is playing in that Audi at that particular time then the program displays the message that the time slot is already booked and asks the user to please try again.

1A
B
D

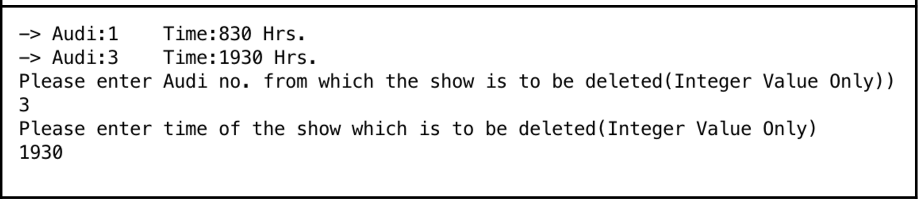


```
Movie Name                       |Lang            |Mins            |
A. Avengers Infinity             |Eng             |120             |
B. Jab Harry Met Sejal           |Hindi           |121             |
C. Spiderman Homecoming          |Eng 3D          |120             |
D. Toilet Ek Prem Katha          |Hindi           |133             |
E. The Death Cure                |Eng             |95              |
F. The Golden Circle             |Eng             |115             |
G. Secret Superstar              |Hindi           |105             |
H. Lego:Ninjago Movie            |Eng 3D          |125             |
I. The Emoji Movie               |Eng 3D          |95              |
J. Annabelle Creation            |Eng 3D          |97              |
K. Bahubali Conclusion           |Hindi           |142             |

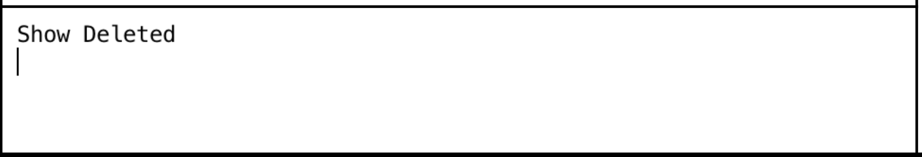
Please enter the movie you want to Update
A
```



```
Please enter the day for which you want to delete the timings for
1. Monday
2. Tuesday
3. Wednesday
4. Thursday
5. Friday
6. Saturday
7. Sunday
8. Exit
1
```



```
-> Audi:1    Time:830 Hrs.
-> Audi:3    Time:1930 Hrs.
Please enter Audi no. from which the show is to be deleted(Integer Value Only))
3
Please enter time of the show which is to be deleted(Integer Value Only)
1930
```

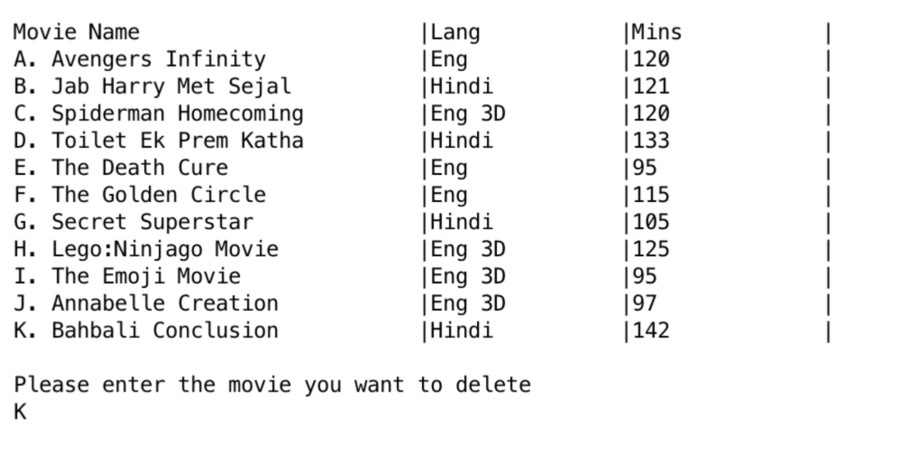


```
Show Deleted
```

On entering “D”, the program displays the list of movies and asks for the movie for which the user needs to delete shows.
After that the program asks the user the day on which the user needs to delete the show.
Now the program displays all the shows of the selected movie on that day and asks for the Audi number and show timing of the show that needs to be deleted.
After deleting the show the program displays an appropriate message.
Entering “Exit” at any point causes a message of ‘show not deleted’ to appear and then return to the System Update screen without making any changes.

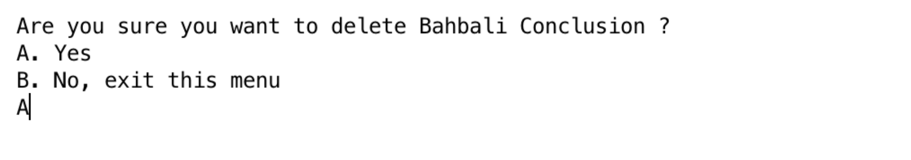
HOME >> SYSTEM UPDATE >> Delete a Movie

1A
C

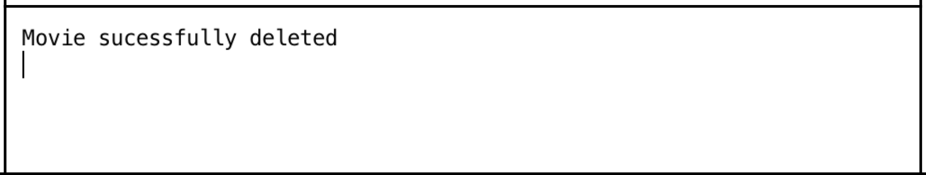


```
Movie Name                        |Lang            |Mins            |
A. Avengers Infinity              |Eng             |120             |
B. Jab Harry Met Sejal            |Hindi           |121             |
C. Spiderman Homecoming           |Eng 3D          |120             |
D. Toilet Ek Prem Katha           |Hindi           |133             |
E. The Death Cure                 |Eng             |95              |
F. The Golden Circle              |Eng             |115             |
G. Secret Superstar               |Hindi           |105             |
H. Lego:Ninjago Movie             |Eng 3D          |125             |
I. The Emoji Movie                |Eng 3D          |95              |
J. Annabelle Creation             |Eng 3D          |97              |
K. Bahbali Conclusion             |Hindi           |142             |

Please enter the movie you want to delete
K
```



```
Are you sure you want to delete Bahbali Conclusion ?
A. Yes
B. No, exit this menu
A
```

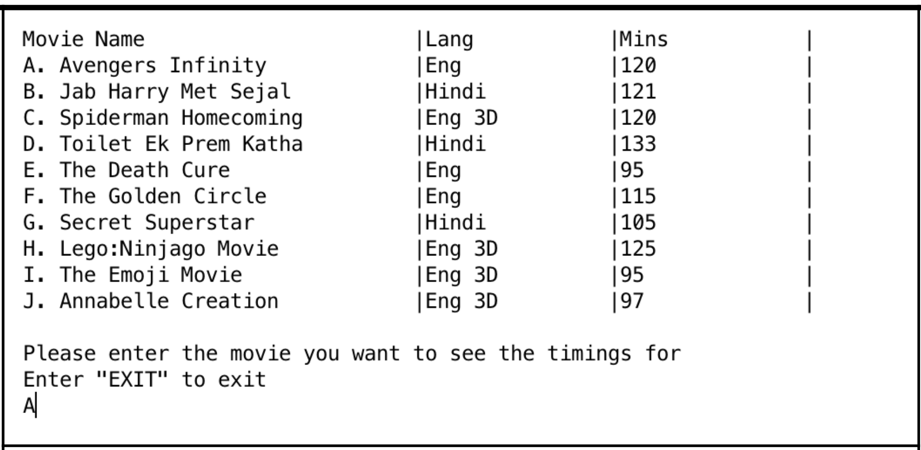


```
Movie sucessfully deleted
```

On entering "C", the program displays the list of movies from which the user can choose which one to delete. After selecting the movie, the program asks for confirmation before deleting that movie. It should be noted that deleting a movie also deletes all the shows associated with that movie.
Upon successfully deleting the movie, the program displays an appropriate message.
Entering “Exit” at any point causes a movie not deleted message to pop up before going back to the System Update screen.

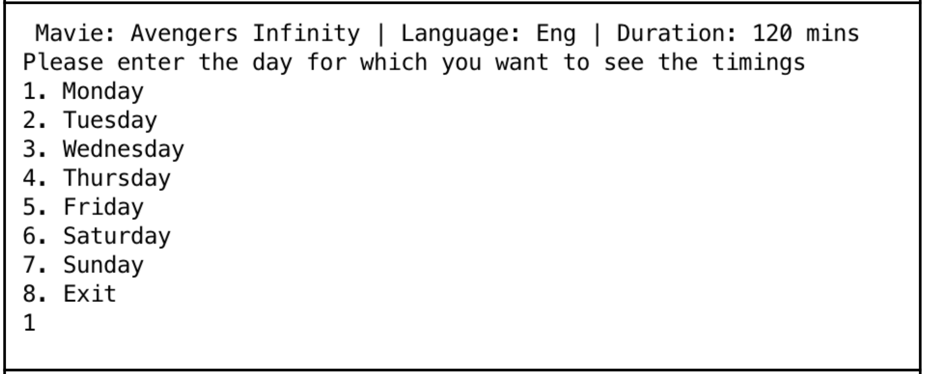
HOME >> LIST OF MOVIES WITH SHOW TIMINGS

1B

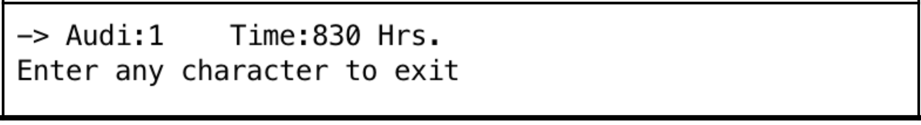


```
Movie Name                          |Lang            |Mins            |
A. Avengers Infinity                |Eng             |120             |
B. Jab Harry Met Sejal              |Hindi           |121             |
C. Spiderman Homecoming             |Eng 3D          |120             |
D. Toilet Ek Prem Katha             |Hindi           |133             |
E. The Death Cure                   |Eng             |95              |
F. The Golden Circle                |Eng             |115             |
G. Secret Superstar                 |Hindi           |105             |
H. Lego:Ninjago Movie               |Eng 3D          |125             |
I. The Emoji Movie                  |Eng 3D          |95              |
J. Annabelle Creation               |Eng 3D          |97              |

Please enter the movie you want to see the timings for
Enter "EXIT" to exit
A
```



```
 Mavie: Avengers Infinity | Language: Eng | Duration: 120 mins
Please enter the day for which you want to see the timings
1. Monday
2. Tuesday
3. Wednesday
4. Thursday
5. Friday
6. Saturday
7. Sunday
8. Exit
1
```

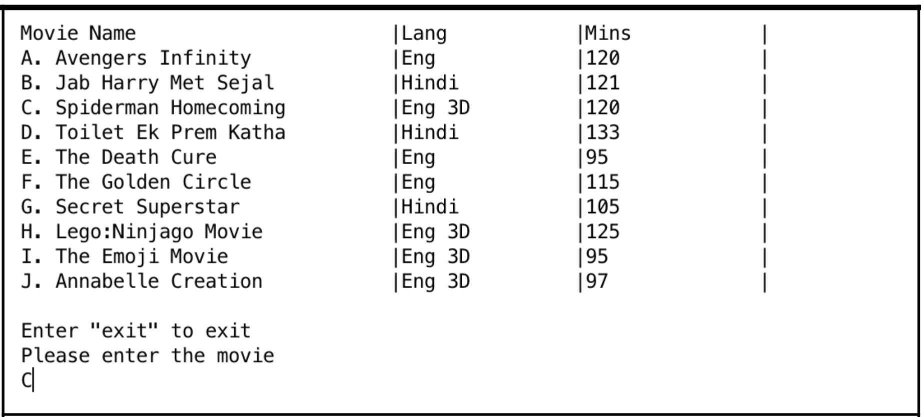


```
-> Audi:1    Time:830 Hrs.
Enter any character to exit
```

On entering "B", on the home screen, the program displays the list of movies.
Now the user can choose the movie for which he/she wants to see the timings for.
Now the program asks for the day for which the user wants to see the timings for.
Now the program displays all the shows of that movie on that day across all Audis.
Exiting any page causes the program to precede to the previous page.

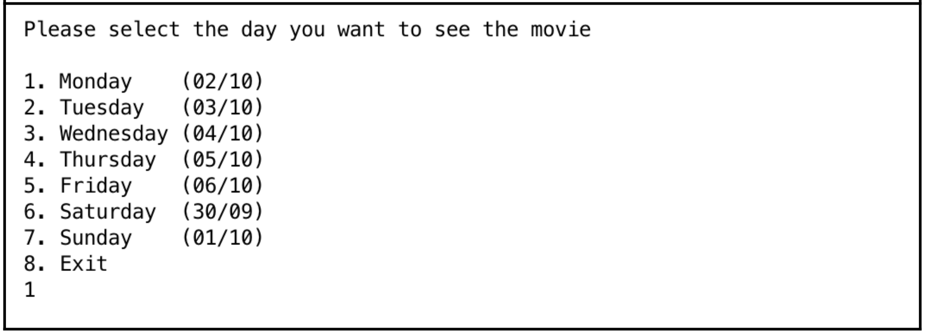
HOME >> BOOK A TICKET

1C



```
Movie Name                          |Lang            |Mins            |
A. Avengers Infinity                |Eng             |120             |
B. Jab Harry Met Sejal              |Hindi           |121             |
C. Spiderman Homecoming             |Eng 3D          |120             |
D. Toilet Ek Prem Katha             |Hindi           |133             |
E. The Death Cure                   |Eng             |95              |
F. The Golden Circle                |Eng             |115             |
G. Secret Superstar                 |Hindi           |105             |
H. Lego:Ninjago Movie               |Eng 3D          |125             |
I. The Emoji Movie                  |Eng 3D          |95              |
J. Annabelle Creation               |Eng 3D          |97              |

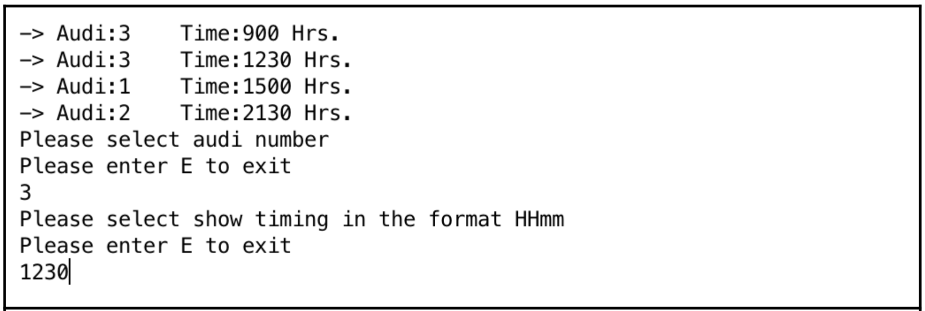
Enter "exit" to exit
Please enter the movie
C
```



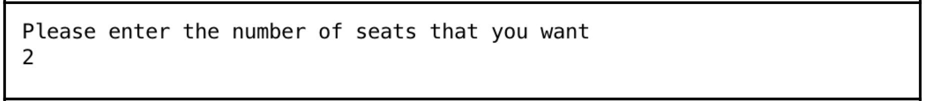
```
Please select the day you want to see the movie

1. Monday    (02/10)
2. Tuesday   (03/10)
3. Wednesday (04/10)
4. Thursday  (05/10)
5. Friday    (06/10)
6. Saturday  (30/09)
7. Sunday    (01/10)
8. Exit
1
```

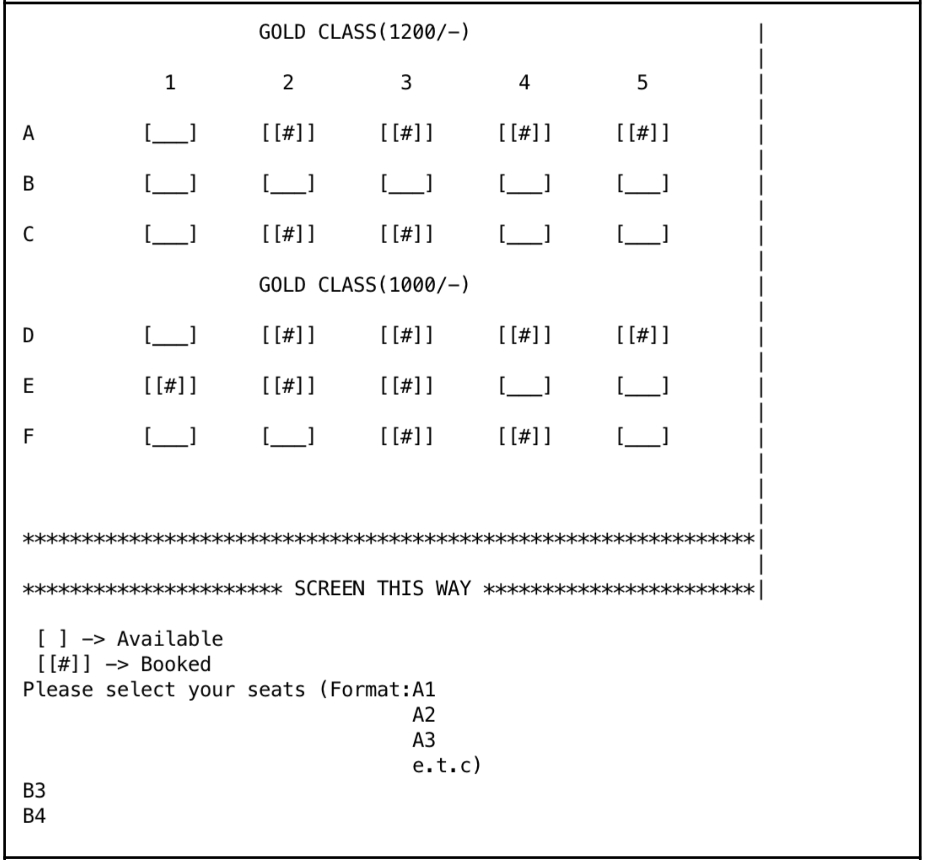
- On entering "C", the program displays the list of movies.
- Here the user can choose the movie for which he/she wants to book the tickets.
- Next the program asks for the day the user wants to book the tickets for. [NOTE: Dates are written in front of the days. This insures that the user does not chooses a past date]
- Now the program displays all the shows of that movie on that day and asks the user to enter the



```
-> Audi:3    Time:900 Hrs.
-> Audi:3    Time:1230 Hrs.
-> Audi:1    Time:1500 Hrs.
-> Audi:2    Time:2130 Hrs.
Please select audi number
Please enter E to exit
3
Please select show timing in the format HHmm
Please enter E to exit
1230
```

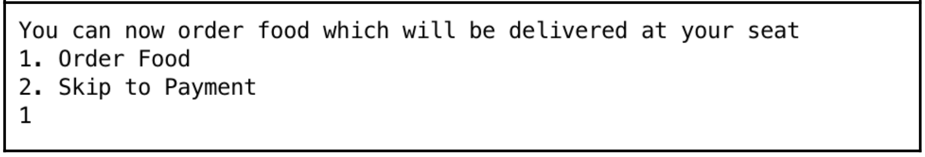


```
Please enter the number of seats that you want
2
```



```
                    GOLD CLASS(1200/-)                        |
                                                              |
            1         2         3         4         5         |
                                                              |
A         [___]     [[#]]     [[#]]     [[#]]     [[#]]       |
                                                              |
B         [___]     [___]     [___]     [___]     [___]       |
                                                              |
C         [___]     [[#]]     [[#]]     [___]     [___]       |
                                                              |
                    GOLD CLASS(1000/-)                        |
                                                              |
D         [___]     [[#]]     [[#]]     [[#]]     [[#]]       |
                                                              |
E         [[#]]     [[#]]     [[#]]     [___]     [___]       |
                                                              |
F         [___]     [___]     [[#]]     [[#]]     [___]       |
                                                              |
                                                              |
                                                              |
**************************************************************|
                                                              |
********************** SCREEN THIS WAY ***********************|

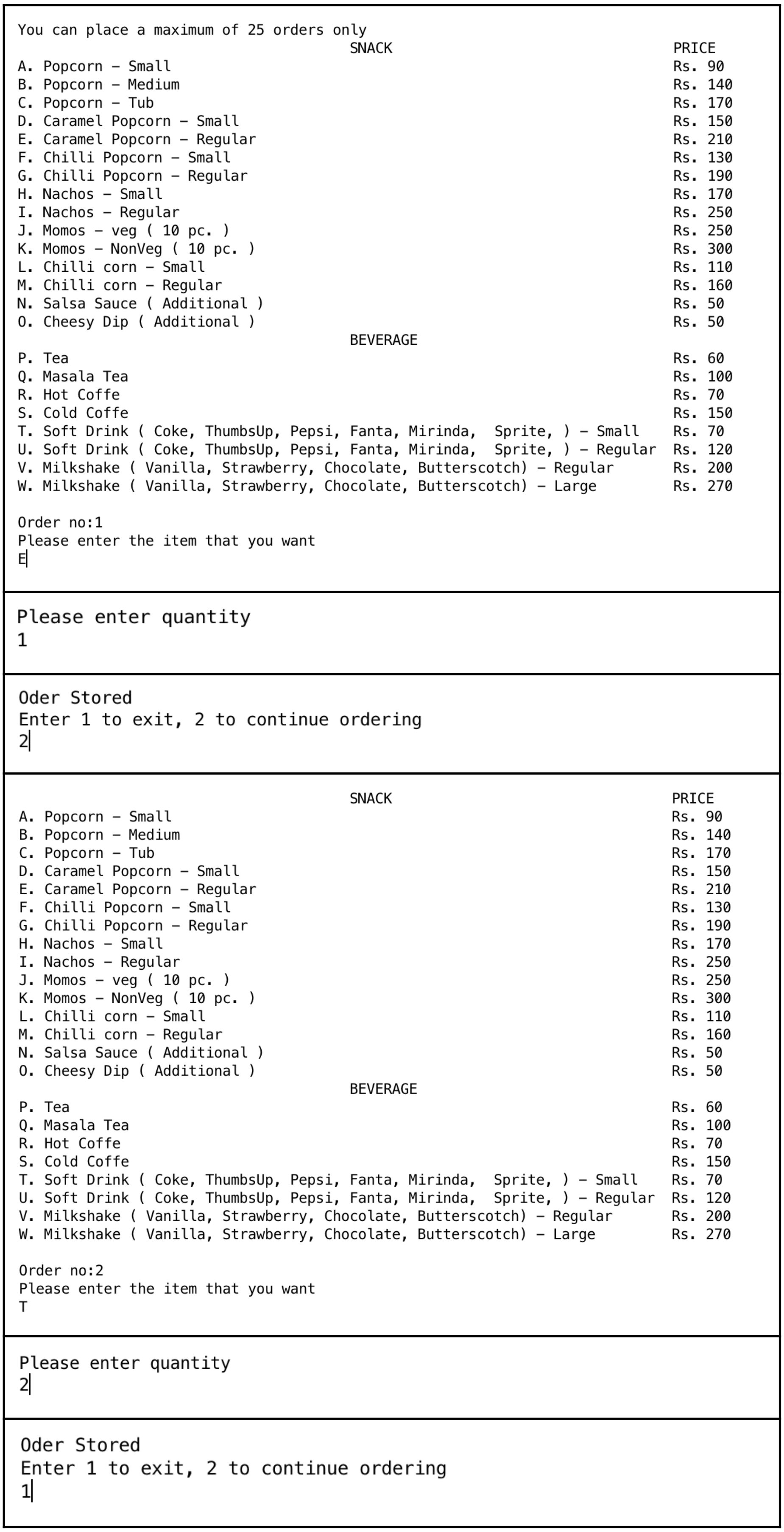
 [ ] -> Available
 [[#]] -> Booked
Please select your seats (Format:A1
                                 A2
                                 A3
                                 e.t.c)
B3
B4
```



```
You can now order food which will be delivered at your seat
1. Order Food
2. Skip to Payment
1
```

Audi no. and timing of the movie.

- Now the program asks the user, how many seats do they require.
- Now the program displays the seats in the Audi. Seats that are booked is represented by “#”.
- The user may choose any seat that is not booked. [NOTE: Different Audis have different seating arrangements. All the seating arrangements of all the three Audis have been displayed later in this documentation]
- Now the program gives the user the option to order food online.
- If the user does not want to order food online, the user has the option to sip to payment.
- If the user selects to order food online, then the program displays the list of menu from which the user may choose.



```
You can place a maximum of 25 orders only
                                          SNACK                                     PRICE
A. Popcorn - Small                                                                  Rs. 90
B. Popcorn - Medium                                                                 Rs. 140
C. Popcorn - Tub                                                                    Rs. 170
D. Caramel Popcorn - Small                                                          Rs. 150
E. Caramel Popcorn - Regular                                                        Rs. 210
F. Chilli Popcorn - Small                                                           Rs. 130
G. Chilli Popcorn - Regular                                                         Rs. 190
H. Nachos - Small                                                                   Rs. 170
I. Nachos - Regular                                                                 Rs. 250
J. Momos - veg ( 10 pc. )                                                           Rs. 250
K. Momos - NonVeg ( 10 pc. )                                                        Rs. 300
L. Chilli corn - Small                                                              Rs. 110
M. Chilli corn - Regular                                                            Rs. 160
N. Salsa Sauce ( Additional )                                                       Rs. 50
O. Cheesy Dip ( Additional )                                                        Rs. 50
                                          BEVERAGE
P. Tea                                                                              Rs. 60
Q. Masala Tea                                                                       Rs. 100
R. Hot Coffe                                                                        Rs. 70
S. Cold Coffe                                                                       Rs. 150
T. Soft Drink ( Coke, ThumbsUp, Pepsi, Fanta, Mirinda,  Sprite, ) - Small          Rs. 70
U. Soft Drink ( Coke, ThumbsUp, Pepsi, Fanta, Mirinda,  Sprite, ) - Regular        Rs. 120
V. Milkshake ( Vanilla, Strawberry, Chocolate, Butterscotch) - Regular              Rs. 200
W. Milkshake ( Vanilla, Strawberry, Chocolate, Butterscotch) - Large                Rs. 270

Order no:1
Please enter the item that you want
E
```

```
Please enter quantity
1
```

```
Oder Stored
Enter 1 to exit, 2 to continue ordering
2
```

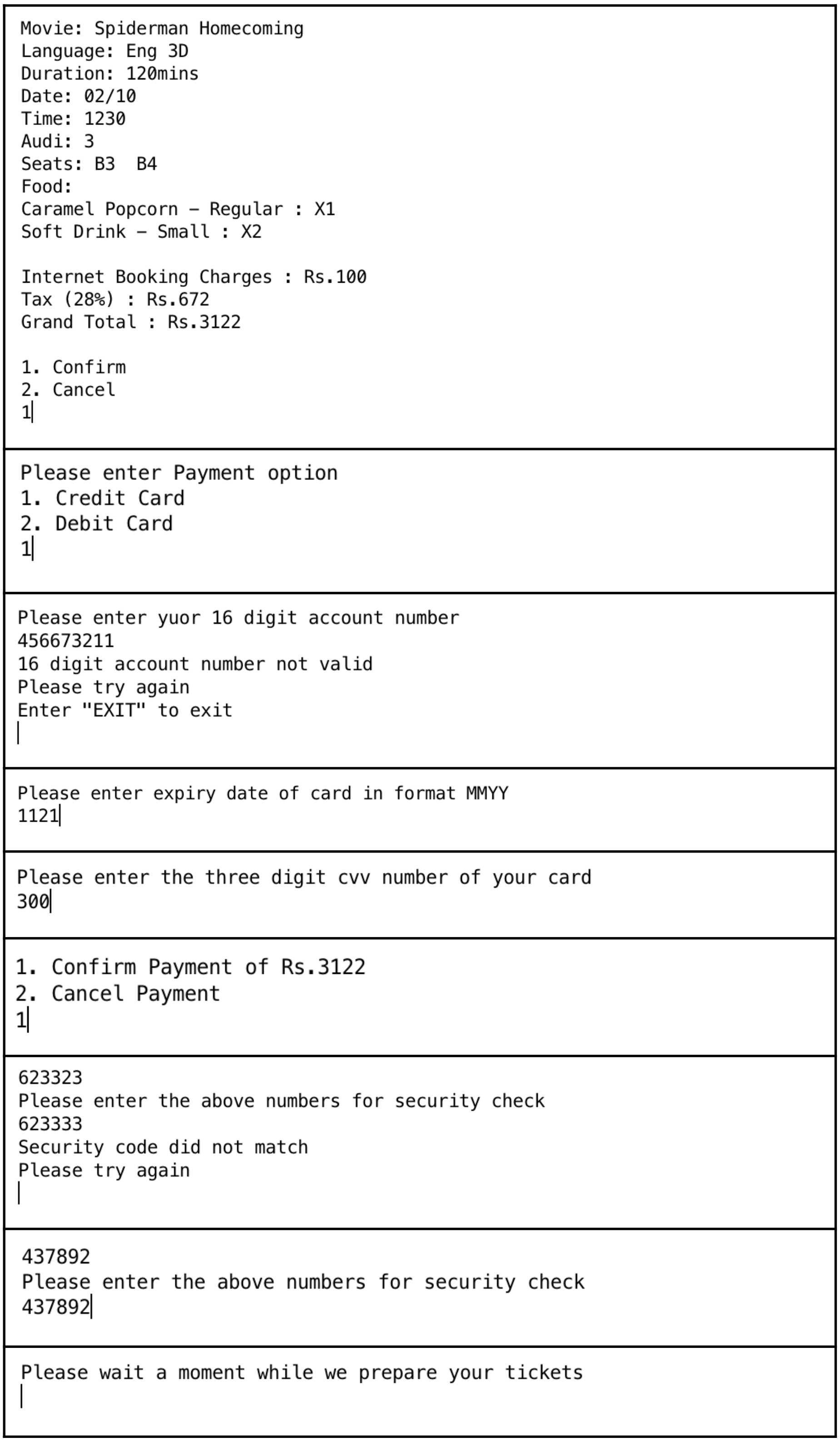
```
                                          SNACK                                     PRICE
A. Popcorn - Small                                                                  Rs. 90
B. Popcorn - Medium                                                                 Rs. 140
C. Popcorn - Tub                                                                    Rs. 170
D. Caramel Popcorn - Small                                                          Rs. 150
E. Caramel Popcorn - Regular                                                        Rs. 210
F. Chilli Popcorn - Small                                                           Rs. 130
G. Chilli Popcorn - Regular                                                         Rs. 190
H. Nachos - Small                                                                   Rs. 170
I. Nachos - Regular                                                                 Rs. 250
J. Momos - veg ( 10 pc. )                                                           Rs. 250
K. Momos - NonVeg ( 10 pc. )                                                        Rs. 300
L. Chilli corn - Small                                                              Rs. 110
M. Chilli corn - Regular                                                            Rs. 160
N. Salsa Sauce ( Additional )                                                       Rs. 50
O. Cheesy Dip ( Additional )                                                        Rs. 50
                                          BEVERAGE
P. Tea                                                                              Rs. 60
Q. Masala Tea                                                                       Rs. 100
R. Hot Coffe                                                                        Rs. 70
S. Cold Coffe                                                                       Rs. 150
T. Soft Drink ( Coke, ThumbsUp, Pepsi, Fanta, Mirinda,  Sprite, ) - Small          Rs. 70
U. Soft Drink ( Coke, ThumbsUp, Pepsi, Fanta, Mirinda,  Sprite, ) - Regular        Rs. 120
V. Milkshake ( Vanilla, Strawberry, Chocolate, Butterscotch) - Regular              Rs. 200
W. Milkshake ( Vanilla, Strawberry, Chocolate, Butterscotch) - Large                Rs. 270

Order no:2
Please enter the item that you want
T
```

```
Please enter quantity
2
```

```
Oder Stored
Enter 1 to exit, 2 to continue ordering
1
```

- After selecting the item of food from the menu, the program asks for the quantity of that item.
- After entering the quantity of that item, the program asks the user if he/she wants to order more or proceed to payment.
- If the user chooses to order more, then the whole process of ordering and taking the quantity of the ordered food is repeated until the user chooses the option of proceed to payment.
  [NOTE: Here, it may be noted that the user can only order upto 25 different items (there is no limit on the quantity). After exceeding the limit of twenty-five orders the program by itself moves on to the payment screen without the users confirmation. This feature is also for security purposes]



```
Movie: Spiderman Homecoming
Language: Eng 3D
Duration: 120mins
Date: 02/10
Time: 1230
Audi: 3
Seats: B3  B4
Food:
Caramel Popcorn - Regular : X1
Soft Drink - Small : X2

Internet Booking Charges : Rs.100
Tax (28%) : Rs.672
Grand Total : Rs.3122

1. Confirm
2. Cancel
1
```

```
Please enter Payment option
1. Credit Card
2. Debit Card
1
```

```
Please enter yuor 16 digit account number
456673211
16 digit account number not valid
Please try again
Enter "EXIT" to exit
```

```
Please enter expiry date of card in format MMYY
1121
```

```
Please enter the three digit cvv number of your card
300
```

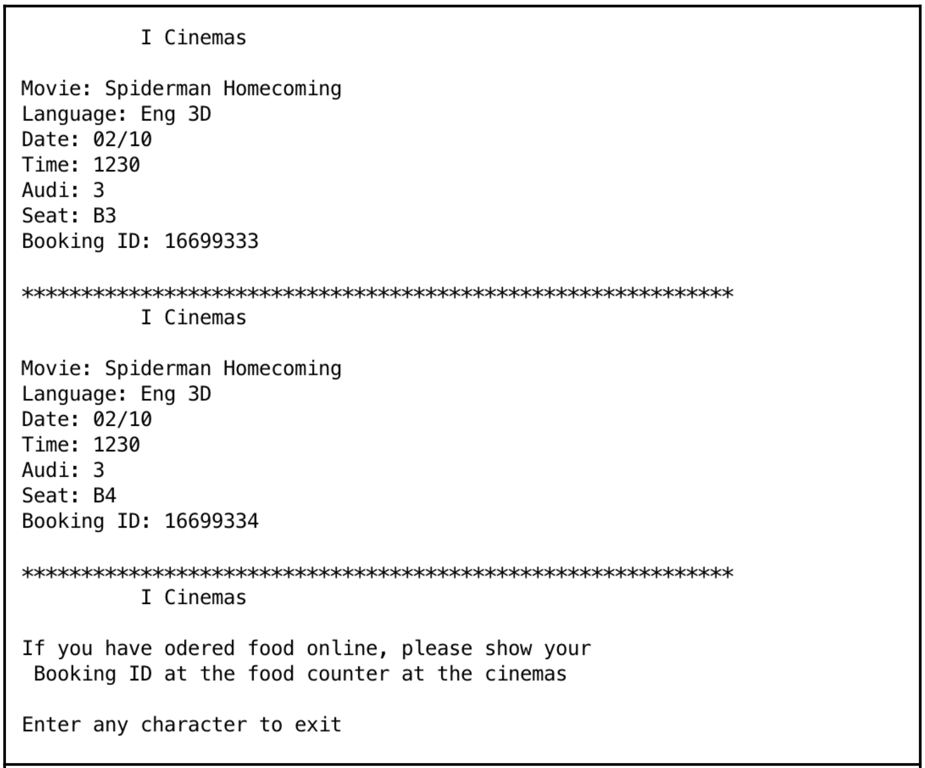
```
1. Confirm Payment of Rs.3122
2. Cancel Payment
1
```

```
623323
Please enter the above numbers for security check
623333
Security code did not match
Please try again
```

```
437892
Please enter the above numbers for security check
437892
```

```
Please wait a moment while we prepare your tickets
```

- Now the program displays the movie name, language, duration, date, time, Audi, seats chosen, food ordered, internet booking charges, tax (28% of total) and the grand total and asks for confirmation before proceeding to payments.
- In payments, the program asks the user whether it wants to pay by credit or debit card.
- Now the program asks the user to enter the 16 digit acc number. Acc numbers less or more than 16 digits are rejected.
- Likewise the program asks the user the expiry date and the cvv number of the card. Incorrect digits would not be accepted.
- Another confirmation is required.
  [NOTE: Entering "EXIT" anywhere till now would have returned to the home page; however, after this confirmation, the user cannot go back]
- Now the program displays a random number on the screen and asks the user to enter the exact same number for security reasons.
- Failing to enter the



```
          I Cinemas

Movie: Spiderman Homecoming
Language: Eng 3D
Date: 02/10
Time: 1230
Audi: 3
Seat: B3
Booking ID: 16699333

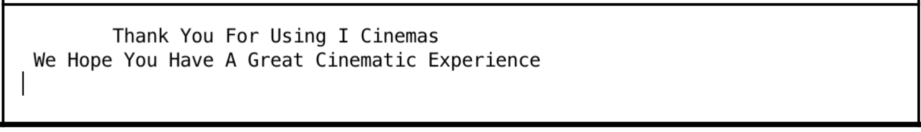
************************************************************
          I Cinemas

Movie: Spiderman Homecoming
Language: Eng 3D
Date: 02/10
Time: 1230
Audi: 3
Seat: B4
Booking ID: 16699334

************************************************************
          I Cinemas

If you have odered food online, please show your
 Booking ID at the food counter at the cinemas

Enter any character to exit
```



```
        Thank You For Using I Cinemas
 We Hope You Have A Great Cinematic Experience
|
```

exact same number the program displays an error message and prints a different number to be entered.

- After security check, the program asks the user to wait till it prepares the tickets.
- Now the program displays the tickets with different booking IDs.
- After the user is satisfied with the tickets, he/she may enter any character to exit.
- Before returning to the home page the program displays a token of thanks to the user to use ICinemas.

HOME >> EXIT

This causes the program to terminate. (All changes are saved for the next use)