

BookAMovieTicket:

```
public class BookAMovieTicket {

    protected String ticketId;

    protected String customerName;

    protected long mobileNumber;

    protected String emailId;

    protected String movieName;

    public void setticketId( String ticketId){

        this.ticketId=ticketId;

    }

    public void setcustomerName( String customerName){

        this.customerName=customerName;

    }

    public void setmobileNumber( long mobileNumber){

        this.mobileNumber=mobileNumber;

    }

    public void setemailId( String emailId){

        this.emailId=emailId;

    }

    public void setmovieName( String movieName){

        this.movieName=movieName;

    }

    public String getticketId(){

        return ticketId;

    }

    public String getcustomerName(){
```

```

return customerName;

}

public String getEmailId(){

return emailId;

}

public String getMovieName(){

return movieName;

}

public long getMobileNumber(){

return mobileNumber;

}

public BookAMovieTicket(String ticketId,String customerName,long mobileNumber,String emailId,String
movieName)

{

this.ticketId=ticketId;

this.customerName=customerName;

this.mobileNumber=mobileNumber;

this.emailId=emailId;

this.movieName=movieName;

}

}

```

GoldTicket:

```

public class GoldTicket extends BookAMovieTicket {

public GoldTicket(String ticketId, String customerName, long mobileNumber,

String emailId, String movieName) {

super(ticketId, customerName, mobileNumber, emailId, movieName);

```

```

}

public boolean validateTicketId(){

int count=0;

if(ticketId.contains("GOLD"));

count++;

char[] cha=ticketId.toCharArray();

for(int i=4;i<7;i++){

if(cha[i]>='1'&& cha[i]<='9')

count++;

}

if(count==4)

return true;

else

return false;

}

public double calculateTicketCost(int numberOfTickets,String ACFacility){

double amount;

if(ACFacility.equals("yes")){

amount=500*numberOfTickets;

}

else{

amount=350*numberOfTickets;

}

return amount;

}

}

```

PlatinumTicket:

```
public class PlatinumTicket extends BookAMovieTicket

{

public PlatinumTicket(String ticketId, String customerName, long mobileNumber,String emailId, String
movieName)

{

super(ticketId, customerName, mobileNumber, emailId, movieName);

}

public boolean validateTicketId(){

int count=0;

if(ticketId.contains("PLATINUM"));

count++;

char[] cha=ticketId.toCharArray();

for(int i=8;i<11;i++){

if(cha[i]>='1'&& cha[i]<='9')

count++;

}

if(count==4)

return true;

else

return false;

}

public double calculateTicketCost(int numberOfTickets,String ACFacility){

double amount;

if(ACFacility.equals("yes")){

amount=750*numberOfTickets;
```

```
}  
  
else{  
  
amount=600*numberOfTickets;  
  
}  
  
return amount;  
  
}  
  
}
```

SilverTicket:

```
public class SilverTicket extends BookAMovieTicket{  
  
public SilverTicket(String ticketId, String customerName, long mobileNumber,String emailId, String  
movieName)  
  
{  
  
super(ticketId, customerName, mobileNumber, emailId, movieName);  
  
}  
  
public boolean validateTicketId(){  
  
int count=0;  
  
if(ticketId.contains("SILVER"));  
  
count++;  
  
char[] cha=ticketId.toCharArray();  
  
for(int i=6;i<9;i++){  
  
if(cha[i]>='1'&& cha[i]<='9')  
  
count++;  
  
}  
  
if(count==4)  
  
return true;  
  
else
```

```
return false;

}

public double calculateTicketCost(int numberOfTickets,String ACFacility){

double amount;

if(ACFacility.equals("yes")){

amount=250*numberOfTickets;

}

else{

amount=100*numberOfTickets;

}

return amount;

}

}
```

UserInterface:

```
import java.util.*;

public class UserInterface {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.println("Enter Ticket Id");

String tid=sc.next();

System.out.println("Enter Customer Name");

String cnm=sc.next();

System.out.println("Enter Mobile Number");

long mno=sc.nextLong();

System.out.println("Enter Email id");

String email=sc.next();
```

```
System.out.println("Enter Movie Name");

String mnm=sc.next();

System.out.println("Enter number of tickets");

int tno=sc.nextInt();

System.out.println("Do you want AC or not");

String choice =sc.next();

if(tid.contains("PLATINUM")){

PlatinumTicket PT=new PlatinumTicket(tid,cnm,mno,email,mnm);

boolean b1=PT.validateTicketId();

if(b1==true){

double cost =PT.calculateTicketCost(tno, choice);

System.out.println("Ticket cost is "+ cost);

}

else if(b1==false){

System.out.println("Provide valid Ticket Id");

System.exit(0);

}

}

else if(tid.contains("GOLD")){

GoldTicket GT=new GoldTicket(tid,cnm,mno,email,mnm);

boolean b2=GT.validateTicketId();

if(b2==true){

double cost=GT.calculateTicketCost(tno, choice);

System.out.println("Ticket cost is "+cost);

}

else if (b2==false){
```

```
System.out.println("Provide valid Ticket Id");

System.exit(0);

}

}

else if(tid.contains("SILVER")){

SilverTicket ST=new SilverTicket(tid,cnm,mno,email,mnm);

boolean b3=ST.validateTicketId();

if(b3==true){

double cost=ST.calculateTicketCost(tno, choice);

System.out.println("Ticket cost is "+cost);

}

else if(b3==false){

System.out.println("Provide valid Ticket Id");

System.exit(0);

}

}

}

}
```