**Passenger.java**

import java.util.\*;

/\*\*

\* @author Sujay Mahadik

\*/

public class Passenger {

public Passenger() {

}

static RailwaySystem sys = new RailwaySystem();

static Ticket ticket = new Ticket();

static Payment payment = new Payment();

private String name;

private String address;

private int age;

private String gender;

public static int trainNo;

public static int noOfPassengers;

public static int amount;

public static boolean paymentDone;

public static String searchTrain() {

Scanner in = new Scanner(System.in);

System.out.println("Enter the train number:");

trainNo = in.nextInt();

String train;

train = sys.returnTrain(trainNo);

return train;

}

public static void bookTicket() {

Scanner in = new Scanner(System.in);

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

noOfPassengers = in.nextInt();

Random rnd = new Random();

int amountSingle = 100 + rnd.nextInt(900);

paymentDone = false;

amount = amountSingle \* noOfPassengers;

System.out.println("\nTrain: " + trainNo + "\nNo of Passengers: " + noOfPassengers + "\nAmount of Ticket: "

+ amountSingle + "\nTotal Amount: " + amount);

System.out.println("\nConfirm ( y / n )");

String ch;

ch = in.next();

if (ch.equals("y")) {

payment.makePayment(amount);

paymentDone = true;

} else {

System.out.println("Exit");

}

}

public static void cancelTicket() {

if (paymentDone == true) {

ticket.deleteTicket(trainNo, amount);

} else {

System.out.println("\nTicket not booked");

}

}

/\*\*

\*

\*/

public static void printTicket() {

if (paymentDone == true) {

ticket.printTicket(trainNo, noOfPassengers, amount);

} else {

System.out.println("\nPayment incomplete");

}

}

/\*\*

\*

\*/

public void modifyProfile() {

// TODO implement here

}

public static void main(String[] args) {

int ch = 0;

Scanner in = new Scanner(System.in);

do {

System.out.println("\n\nEnter your choice:");

System.out.println("0. Search Train\n1. Book ticket\n2. Print Ticket\n3. Cancel Ticket\n4. Exit");

ch = in.nextInt();

switch (ch) {

case 0:

String train = searchTrain();

System.out.println(train);

break;

case 1:

bookTicket();

break;

case 2:

printTicket();

break;

case 3:

cancelTicket();

break;

}

} while (ch < 4);

}

}

**Payment.java**

import java.util.\*;

/\*\*

\* @author Sujay Mahadik

\*/

public class Payment {

public Payment() {

}

public static int transactionID;

public static void makePayment(int amount) {

Random rnd = new Random();

transactionID = 1000 + rnd.nextInt(9000);

System.out.println("\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\nPayment Successful with:\nTID: " + transactionID + "\nAmount: "

+ amount + "\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

}

}

**Ticket.java**

import java.util.\*;

/\*\*

\* @author Sujay Mahadik

\*/

public class Ticket {

public Ticket() {

}

public static int pnrNo;

public static String status;

public static String trainName;

public static int noOfPassengers;

public void newTicket(int trainNo, int pass) {

Random rnd = new Random();

int n = 100000 + rnd.nextInt(900000);

System.out.println();

}

public void printTicket(int t, int p, int a) {

System.out.println("\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\nTicket\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\nTrain no: " + t

+ "\nNo of passengers: " + p + "\nAmout: " + a + "\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

}

public void deleteTicket(int t, int a) {

System.out.println("\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\nCancelled ticket\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\nTrain no: " + t

+ "\nAmout refund: " + a + "\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

}

}

**RailwaySystem.java**

import java.util.\*;

/\*\*

\* @author Sujay Mahadik

\*/

public class RailwaySystem {

public RailwaySystem() {

}

Train trainData = new Train();

public void railwayZone() {

}

public String returnTrain(int num) {

String toReturn = "";

toReturn = trainData.returnTrainName(num);

return toReturn;

}

public void response() {

// TODO implement here

}

public void verifyPayment() {

// TODO implement here

}

public void triggerRefund() {

// TODO implement here

}

public void login() {

// TODO implement here

}

public void validate() {

// TODO implement here

}

}

**Train.java**

import java.util.\*;

/\*\*

\* @author Sujay Mahadik

\*/

public class Train {

public Train() {

}

public String returnTrainName(int trainNo) {

String trainName;

Hashtable<Integer, String> traindata = new Hashtable<Integer, String>();

traindata.put(12108, "Intercity Express");

traindata.put(12109, "Deccan Queen");

traindata.put(12110, "Koyna Express");

traindata.put(12111, "Rajdhani");

trainName = traindata.get(trainNo);

return trainName;

}

}





