package Final;

import java.text.SimpleDateFormat;  
import java.util.ArrayList;  
import java.util.Date;  
import java.util.Random;  
import java.util.Scanner;  
class Booking extends date {  
    public static void booking() {  
       Scanner scanner = new Scanner(System.in);  
       System.out.println("\t\t\tBOOKING ROOMS");  
       System.out.println(" ");  
       while (true) {  
           System.out.println("Name: ");  
           String n = scanner.nextLine();  
           System.out.println("Phone No.: ");  
           String p1 = scanner.nextLine();  
           System.out.println("Address: ");  
           String a = scanner.nextLine();  
           if (n.matches("[a-z, ,A-Z ]+")) {  
               // Check if the phone number has exactly 10 digits  
               if (p1.matches("\\d{10,11}")) {  
                   name.add(n);  
                   add.add(a);  
                   phno.add(p1);  
               } else {  
                   System.out.println("Invalid phone number. Please enter a 10-digit or 11-digit phone number.\n");  
                   booking();  
               }  
           } else {  
               System.out.println("Invalid name. Please enter a name with only alphabetic characters.\n");  
               booking();  
           }  
       System.out.println("Check-In: ");  
       String cii = scanner.nextLine();  
       checkin.add(cii);  
       String[] ci = cii.split("/");  
       date(ci);  
       System.out.println("Check-Out: ");  
       String coo = scanner.nextLine();  
       checkout.add(coo);  
       String[] co = coo.split("/");  
       date(co);  
       SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");  
       try {  
           Date date1 = sdf.parse(cii);  
           Date date2 = sdf.parse(coo);  
           long difference = Math.abs(date2.getTime() - date1.getTime());  
           int d = (int) (difference / (24 \* 60 \* 60 \* 1000));  
           day.add(d);  
       } catch (Exception e) {  
           System.out.println("Please book for future dates");  
           booking();  
       }  
       try {  
         System.out.println(" 1. Standard Non-AC - Rs. 3500");  
           System.out.println(" 2. Standard AC - Rs. 4000");  
           System.out.println(" 3. 3-Bed Non-AC - Rs. 4500");  
           System.out.println(" 4. 3-Bed AC - Rs. 5000");  
           System.out.println("\t\tEnter 0 to return home page");  
       int ch = scanner.nextInt();  
       if (ch == 0) {  
         name.remove(i);  
         phno.remove(i);  
        add.remove(i);  
        checkin.remove(i);  
        checkout.remove(i);  
        day.remove(i);  
           Main.Home();                
       }  
       if (ch == 1) {  
           room.add("Standard Non-AC");  
           System.out.println("Room Type- Standard Non-AC");  
           price.add(3500);  
           System.out.println("Price- 3500");  
       } else if (ch == 2) {  
           room.add("Standard AC");  
           System.out.println("Room Type- Standard AC");  
           price.add(4000);  
           System.out.println("Price- 4000");  
       } else if (ch == 3) {  
           room.add("3-Bed Non-AC");  
           System.out.println("Room Type- 3-Bed Non-AC");  
           price.add(4500);  
           System.out.println("Price- 4500");  
       } else if (ch == 4) {  
           room.add("3-Bed AC");  
           System.out.println("Room Type- 3-Bed AC");  
           price.add(5000);  
           System.out.println("Price- 5000");  
       } else {  
           System.out.println("Please book your room with valid choice");  
           booking();  
       }  
       }catch(Exception e) {  
         System.out.println("Please book your room with valid choice");  
         booking();  
       }  
       Random random = new Random();  
       int rn = random.nextInt(60) + 300;  
       int cid = random.nextInt(60) + 10;  
       while (roomno.contains(rn) || custid.contains(cid)) {  
           rn = random.nextInt(60) + 300;  
           cid = random.nextInt(60) + 10;  
       }  
       rc.add(0);  
       p.add(0);  
       roomno.add(rn);  
       custid.add(cid);  
       i++;  
       System.out.println("");  
       System.out.println("\t\t\t\*\*ROOM BOOKED SUCCESSFULLY\*\*\n");  
       System.out.println("Room No. - " + rn);  
       System.out.println("Customer Id - " + cid);  
       System.out.println("Enter any key to return home page");  
       String n1 = scanner.next();  
       Main.Home();      
       }  
    }  
}