import java.util.ArrayList;

import java.util.Scanner;

public class Main {

            static int roomType;

            static int roomNumber, roomCapacity;

            static boolean roomAc, roomWifi, roomCabel, roomLaundry;

            static int count=0;

            static int id;

            static String name;

            static String address;

            static String con;

            static ArrayList<Room> roomList=new ArrayList<Room>();

public static void main(String[] args) {

            Scanner sc=new Scanner(System.in);

            try{System.out.println("Enter the Hotel details:");

            System.out.println("Enter the Hotel Name:");

    name=sc.next();

            System.out.println("Enter the Hotel ID:");

            id=sc.nextInt();

            System.out.println("Enter the Hotel Address");

            address=sc.next();

            do{

                        System.out.println("Enter the Room Details:\nEnter the Room Id:");

            int roomid=sc.nextInt();

            do{

                        System.out.println("Enter the Room Number:");

                        roomNumber=sc.nextInt();

            }while(roomNum(roomNumber));

            System.out.println("Enter the Room Type:\n1)Normal\n2)Delux\n3)Super Delux");

            roomType=sc.nextInt();

            System.out.println("Enter the Room Capacity:(1/2/3/4)");

            roomCapacity=sc.nextInt();

            System.out.println("AC Service (true/false):");

            roomAc=sc.nextBoolean();

            System.out.println("Wi-Fi Service (true/false):");

            roomWifi=sc.nextBoolean();

            System.out.println("Cable Service (true/false):");

            roomCabel=sc.nextBoolean();

            System.out.println("Laundry Service (true/false):");

            roomLaundry=sc.nextBoolean();

            count++;

            roomList.add(new Room(roomid, roomType, roomNumber, roomCapacity, roomAc, roomWifi, roomCabel, roomLaundry));

            System.out.println("Do you want to add Another Room (yes/no):");

            con=sc.next();}while(con.equals("yes"));

            display();

}

finally{

            System.gc();

}}

public static boolean roomNum(int roomNumber){

            try{

            if(roomNumber<0){

                        throw new Exceptioncl();

            }

            }catch(Exceptioncl ex){

                        System.out.println(ex.getMessage());

                        return true;

            }

            return false;

}

public static void display(){

            System.out.println("Thank you for booking !!\nThe rooms details:");

            System.out.println("Hotel Name:"+name+".");

            System.out.println("Hotel ID:"+id+".");

            System.out.println("Hotel Address:"+address+".");

            //System.out.println();

            //System.out.println("Room Details:");

            for(int i=0;i<count;i++){

                        System.out.println();

                        roomList.get(i).display();

            }

}

}

**public** **class** Exceptioncl **extends** Throwable{

**public** String getMessage(){

**return** ("Invalid Room Number\nRe-enter Room Number");

}

}

**public** **class** Room {

**int** roomId;

**int** roomType;

**int** roomNumber, roomCapacity;

**boolean** roomAc, roomWifi, roomCabel, roomLaundry;

**public** Room(**int** roomId, **int** roomType, **int** roomNumber, **int** roomCapacity,

**boolean** roomAc, **boolean** roomWifi, **boolean** roomCabel,

**boolean** roomLaundry) {

**super**();

**this**.roomId = roomId;

**this**.roomType = roomType;

**this**.roomNumber = roomNumber;

**this**.roomCapacity = roomCapacity;

**this**.roomAc = roomAc;

**this**.roomWifi = roomWifi;

**this**.roomCabel = roomCabel;

**this**.roomLaundry = roomLaundry;

       }

**public** **void** display(){

              System.***out***.println("Room Number :"+roomNumber);

**if**(roomType==1){

              System.***out***.println("Room Type :Normal");}

**else** **if**(roomType==2)

                     System.***out***.println("Room Type :Delux");

**else** **if**(roomType==3){

                           System.***out***.println("Room Type :Super Delux");

              }

              System.***out***.println("Services Available:");

**if**(roomAc){

              System.***out***.println("AC");

              }

**if**(roomWifi){

                     System.***out***.println("Wi-Fi");

              }

**if**(roomCabel)

              System.***out***.println("Cable Connection");

**if**(roomLaundry)

              System.***out***.println("Laundry");

       }

} ----------------------------------------------------------------------------------------------------------------------------------------

import java.io.IOException;

import java.util.Scanner;

import java.util.TreeSet;

public class Customer

{

            String fn;

            String ln;

            String cn;

            String em;

            String pt;

            String pi;

            public Customer(String fn, String ln, String cn, String em, String pt,

                                    String pi) {

                        super();

                        this.fn = fn;

                        this.ln = ln;

                        this.cn = cn;

                        this.em = em;

                        this.pt = pt;

                        this.pi = pi;

            }

            public String toString(){

                        return ("The customer details are:\nFirst Name : "+fn+"\nLast Name : "+ln+"\nContact Number : "+cn+"\nE-Mail : "+em+"\nProof Type : "+pt+"\nProof ID : "+pi);

            }

            }

**public** **class** Exceptioncl **extends** Throwable{

**public** String getMessage(){

**return** ("Invalid Email ID\nRe-enter Email ID");

}

}

import java.util.Iterator;

import java.util.List;

import java.util.Scanner;

public class Main

{

            public static void main(String[] args)

            {

                        String fn;

                        String ln;

                        String cn;

                        String em;

                        String pt;

                        String pi;

                        String p;

                        int count=0;

                        Scanner sc = new Scanner(System.in);

                                    System.out.println("Customer Registration:");

                                    System.out.println();

                                    System.out.println("Enter the customer details:");

                                    System.out.println("Enter the first name:");

                                     fn=sc.next();

                                    System.out.println("Enter the last name:");

                                     ln=sc.next();

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

                                     cn=sc.next();

                                     System.out.println("Enter the e-mail id:");

                                    do{

                                     em=sc.next();}while(roomNum(em));

                        System.out.println("Enter the proof type:");

                                     pt=sc.next();

                                    System.out.println("Enter the proof id:");

                                     pi=sc.next();

                                     Customer c = new Customer(fn,ln,cn,em,pt,pi);

                                     display(c);

            }

            private static void display(Customer c)

            {

                        System.out.println("Thank you for registering. Your id is 1..\nThe customer details are as follows");

                                    System.out.println(c.toString());

                        }

            public static boolean roomNum(String email){

                        try{

[if(!email.matches("[a-zA-Z0-9.]{1,}+@[a-zA-Z0-9\\-\\\_\\.]+\\.[a-zA-Z0-9]{3}"))](if(!email.matches(){

                                    throw new Exceptioncl();

                        }

                        }catch(Exceptioncl ex){

                                    System.out.println(ex.getMessage());

                                    return true;

                        }

                        return false;

            }

}