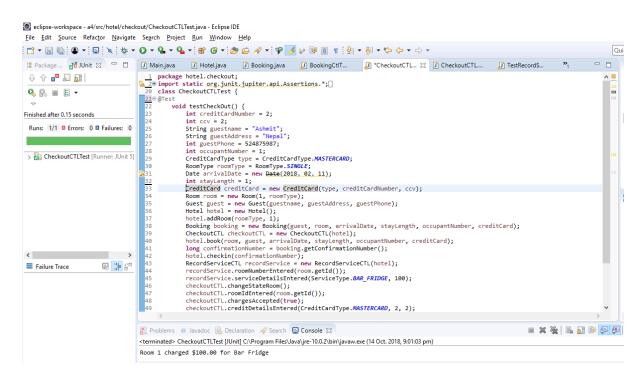
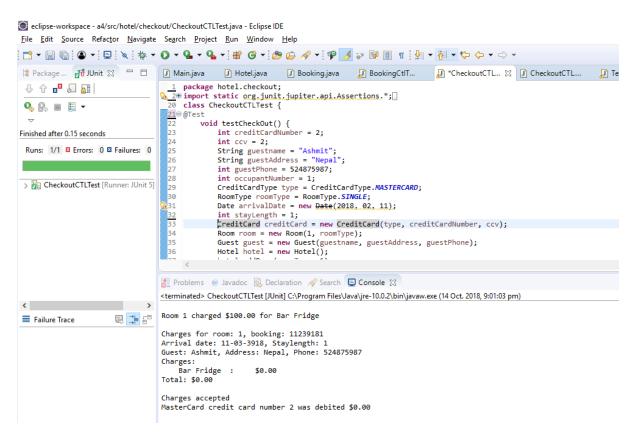
## • Simplification:

Junit test done before the bugs were fixed.

For BUG 1: (All Service charges are reported as 0.00 when checking out)





## For BUG 2: (It is possible to charge a room for service after the guest has checked out)

```
pace - a4/src/hotel/service/TestRecordServiceCTL.iava - Eclipse IDE
ce Refac<u>t</u>or <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject <u>R</u>un <u>W</u>indow <u>H</u>elp
Jt JUnit 🌣 🖳 🗋 🚺 Main.java 📝 Hotel.java 📝 Booking.java 🔬 BookingCtlT...
                                                                                                                                                                                                                                                             void testCheckOut() {
                                                                                                    int creditCardNumber = 2;
int ccv = 2;
String guestname = "Ronaldo";
4 seconds
rrors: 0 ■ Failures: 0
                                                                                                   String guesthame = "Ronaldo";
String guesthadres = "Portugal";
int guesthone = 524875987;
int occupantNumber = 1;
CreditCardType type = CreditCardType.MASTERCARD;
RoomType roomType = RoomType.SINGLE;
Date arrivalDate = new Date(2018...11..01);
int staylength = 1;
CreditCard creditCard = new CreditCard(type, creditCardNumber, ccv);
CTI Test (Runner: JUnit 51
                                                                                                  CreditCard creditCard = new CreditCard(type, creditCardNumber, ccv);

Room room = new Room(1, roomType);

Guest guest = new Guest(guestname, guestAddress, guestPhone);

Hotel hotel = new Hotel();

hotel.addRoom(roomType, 1);

Booking booking = new Booking(guest, room, arrivalDate, stayLength, occupantNumber, creditCard);

CheckoutCTL checkoutCTL = new CheckoutCTL(hotel);

hotel.book(room, guest, arrivalDate, stayLength, occupantNumber, creditCard);

long confirmationNumber = booking.getConfirmationNumber();

hotel.checkin(confirmationNumber);

RecondServiceCTL recordService = new RecordServiceCTL(hotel);

recordService.serviceOtailsEntered(room.getId());

recordService.serviceDetailsEntered(ServiceType.BAR_FRIDGE, 100);

checkoutCTL.changeStateRoom();
                           recordservice.serviceDetailsEntered(serviceType.BAR_FRIDGE, 100);
checkoutCTL.changeStateRoom();
checkoutCTL.changesAccepted(true);
checkoutCTL.changesAccepted(true);
checkoutCTL.creditDetailsEntered(CreditCardType.MASTERCARD, 2, 2);
recordService.roomNumberEntered(room.getId());
recordService.serviceDetailsEntered(ServiceType.BAR_FRIDGE, 100);
orkspace - a4/src/hotel/service/TestRecordServiceCTL.java - Eclipse IDE
 <u>S</u>ource Refac<u>t</u>or <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject <u>R</u>un <u>W</u>indow <u>H</u>elp
| Main.java | Hotel.java | Booking.java | BookingCtIT... | CheckoutCTLT... | Checkou
                                                                                                                                                                                                                                                                                                                                                                                                   I 🔎 🔠
                                                                                                                   Hotel notel = new Hotel();
hotel.addRoom(roomType, 1);
Booking booking = new Booking(guest, room, arrivalDate, stayLength, occupantNumber, creditCard);
CheckoutCTL checkoutCTL = new CheckoutCTL(hotel);
hotel.book(room, guest, arrivalDate, stayLength, occupantNumber, creditCard);
long confirmationNumber = booking.getConfirmationNumber();
hotel.checkin(confirmationNumber);
RecordServiceCTL recordService = new RecordServiceCTL(hotel);
- ■ -
 Errors: 0 ■ Failures: 0
                                                                                                                    recordService.roomNumberEntered(room.getId());
recordService.serviceDetailsEntered(ServiceType.BAR_FRIDGE, 100);
 koutCTLTest [Runner: JUnit 5]
                                                                                                                   checkoutCTL.changeStateRoom();
checkoutCTL.roomIdEntered(room.getId());
checkoutCTL.changesAccepted(true);
checkoutCTL.creditDetailsEntered(CreditCardType.MASTERCARD, 2, 2);
                                                                              51
52
53
54
55
56
                                                                                                                       recordService.roomNumberEntered(room.getId());
recordService.serviceDetailsEntered(ServiceType.BAR_FRIDGE, 100);
                                                                                                                  }
                                                                         Problems @ Javadoc 🚇 Declaration 🧳 Search 📮 Console 🛭
                                                                                                                                                                                                                                                                                                                                                                                                                                      X X X
race
                                                                         <terminated> CheckoutCTLTest [JUnit] C:\Program Files\Java\jre-10.0.2\bin\javaw.exe (14 Oct. 2018, 11:03:17 pm)
                                                                           Room 1 charged $100.00 for Bar Fridge
                                                                         Charges for room: 1, booking: 11239181
Arrival date: 11-03-3918, Staylength: 1
Guest: Ashmit, Address: Nepal, Phone: 524875987
Charges:
```

Bar Fridge :

Total: \$0.00 Charges accepted \$0.00

MasterCard credit card number 2 was debited \$0.00