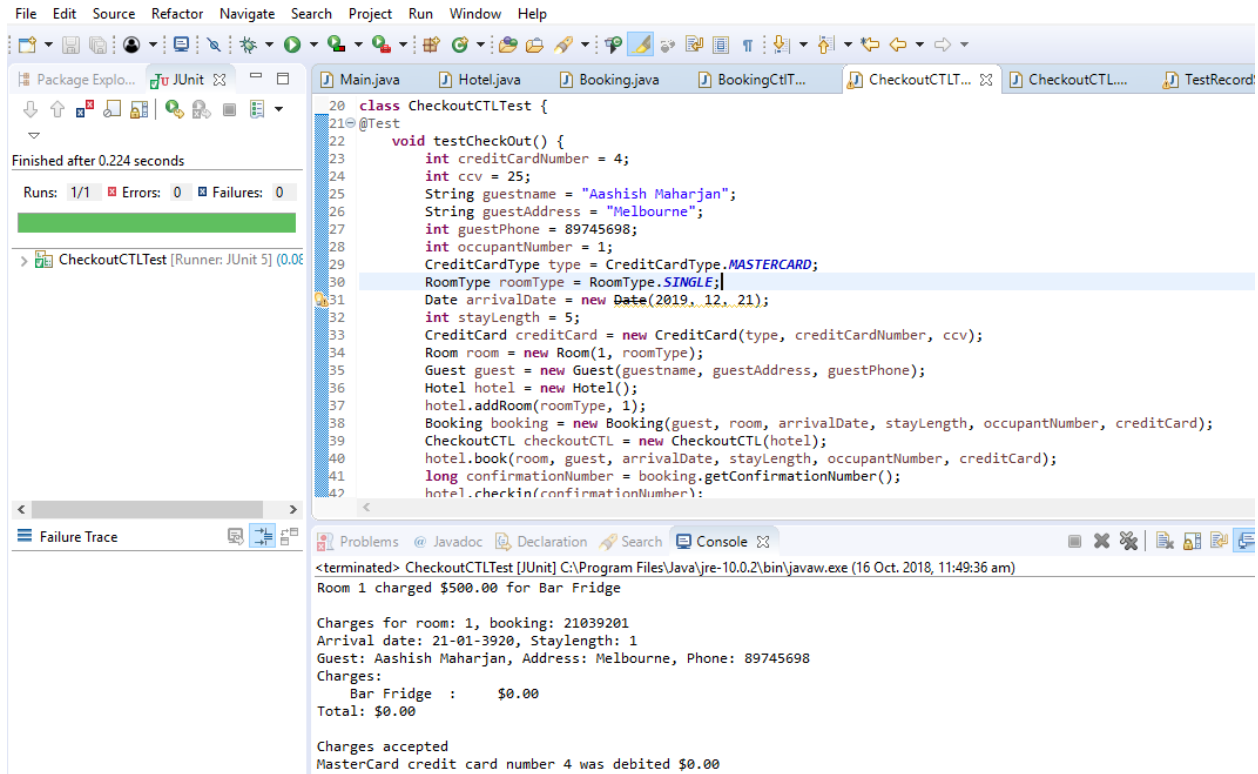


JUnit test were done before the bugs were fixed.

1. BUG 1: All Service charges are reported as \$0.00 when checking out. It doesn't evaluated the value from the total expenses made in the room.



The screenshot shows an IDE with the following components:

- Package Explorer:** Shows the project structure with a package named 'JUnit'.
- JUnit Runner:** Shows the test results for 'CheckoutCTLTest'. It indicates 'Runs: 1/1', 'Errors: 0', and 'Failures: 0'. The test finished after 0.224 seconds.
- Source Editor:** Displays the code for 'CheckoutCTLTest.java'. The code defines a test method 'testCheckOut()' that sets up a hotel booking and performs a checkout. The code is as follows:

```
20 class CheckoutCTLTest {
21 @Test
22 void testCheckOut() {
23     int creditCardNumber = 4;
24     int ccv = 25;
25     String guestname = "Aashish Maharjan";
26     String guestAddress = "Melbourne";
27     int guestPhone = 89745698;
28     int occupantNumber = 1;
29     CreditCardType type = CreditCardType.MASTERCARD;
30     RoomType roomType = RoomType.SINGLE;
31     Date arrivalDate = new Date(2019, 12, 21);
32     int stayLength = 5;
33     CreditCard creditCard = new CreditCard(type, creditCardNumber, ccv);
34     Room room = new Room(1, roomType);
35     Guest guest = new Guest(guestname, guestAddress, guestPhone);
36     Hotel hotel = new Hotel();
37     hotel.addRoom(roomType, 1);
38     Booking booking = new Booking(guest, room, arrivalDate, stayLength, occupantNumber, creditCard);
39     CheckoutCTL checkoutCTL = new CheckoutCTL(hotel);
40     hotel.book(room, guest, arrivalDate, stayLength, occupantNumber, creditCard);
41     long confirmationNumber = booking.getConfirmationNumber();
42     hotel.checkin(confirmationNumber);
43 }
```
- Console:** Shows the output of the test. The output is as follows:

```
<terminated> CheckoutCTLTest [JUnit] C:\Program Files\Java\jre-10.0.2\bin\javaw.exe (16 Oct. 2018, 11:49:36 am)
Room 1 charged $500.00 for Bar Fridge

Charges for room: 1, booking: 21039201
Arrival date: 21-01-3920, Staylength: 1
Guest: Aashish Maharjan, Address: Melbourne, Phone: 89745698
Charges:
  Bar Fridge :    $0.00
Total: $0.00

Charges accepted
MasterCard credit card number 4 was debited $0.00
```

2. BUG 2: It is possible to charge a room for service after the guest has checked out. Even after the check out charging for the room is a huge bug in the system.

a4/src/hotel/service/TestRecordServiceCTL.java - Eclipse IDE

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