# Step 4 Resolution

In this Step 4 that is Resolution Stage, I wrote the missing codes so that they run the program properly and fix both of the reported bugs that is displaying the service charges properly and to not record service and not checkout again after the guest has checked out.

This checkIn method is from the booking class. To correct the bug, it should change the state. Thus, I added the statement –

state = State.CHECKED\_IN;

A screenshot of a cell phone

Description generated with very high confidence

This is the checkout method from the booking class. To correct the bug, it should change the state to checked out. Thus, I added the following statement –

state = State.CHECKED\_OUT;

A screenshot of a cell phone

Description generated with very high confidence

This is the checkout method from the hotel class. To correct the bug, it should remove the object from the HashMap. Thus, I added the following statement –

activeBookingsByRoomId.remove(roomId);

A screenshot of a social media post

Description generated with very high confidence

This is the checkout method from the room class. To correct the bug, it should remove the object from the bookings List. Thus, I added the following statement –

bookings.remove(booking);

A screenshot of a social media post

Description generated with very high confidence

This is the addServiceCharge from the bookings class. This was responsible for the incorrect display of service charges in the checkout method. To correct the bug, the misspelled ‘cosst’ should be changed to ‘cost’

A picture containing indoor

Description generated with very high confidence