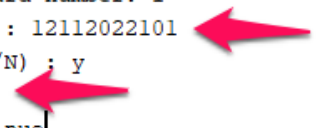| Test Name	Normal Flow
Use Case Tested:	The use case begins when customer selects check in and out option on the main menu.
Test Description:	This test is using to test the check in and check out part of the hotel.java file.
Pre-conditions	The booking should be made in initial so that the check in option can be activate. If the booking is not done in prior, check in cannot be done no the checkout
Post-conditions	There are no post conditions
Notes:	The booking should be done by the user before the check in can be done. If the booking is not done prior, then the user cannot check in to the system. The sample of prior booking looks like the following:
Result (Pass/Fail/Warning/Incomplete)	

	TEST STEP	EXPECTED TEST RESULTS	Screenshot	P	F
	Prompt to enter confirmation number	It prompts for the confirmation number	Selection : C Checking in Enter confirmation number: ←	P	
	Enter confirmation number	The confirmation number is: 12112022101 is entered	Selection : C Checking in Enter confirmation number: 12112022101 ←	P	
	Find booking by confirmation number	It finds the confirmation number	Enter confirmation number: 12112022101 ← Single room 101 is booked from 12-12-2022 for 1 nights by Sam.	P	

| | Display booking information | It displays the booking information | ```
Enter confirmation number: 12112022101

Single room 101 is booked from 12-12-2022 for 1 nights by Sam.
MasterCard Credit card number: 1
Confirmation Number : 12112022101
``` | | |
|---|---|---|---|---|---|
| | Prompt to confirm check in | It prompts for check-in | ```
Single room 101 is booked from 12-12-2022 for 1 nights by Sam.
MasterCard Credit card number: 1
Confirmation Number : 12112022101
Confirm checkin? (Y/N) :
``` | | |
| | Confirm Check in | User inputs y for yes | ```
Single room 101 is booked from 12-12-2022 for 1 nights by Sam.
MasterCard Credit card number: 1
Confirmation Number : 12112022101
Confirm checkin? (Y/N) : y
``` | | |
| | Display check in confirmed message | It displays check in confirmed | ```
Confirmation Number : 12112022101
Confirm checkin? (Y/N) : y
Check in confirmed
``` | | |
| | Continue | It prompts continue | ```
Check in confirmed
Hit <enter> to continue
Checking in completed
``` | | |

Alternative Flow:

Test Name	Test Purpose	Expected Output	Result Output	Test Status	Screenshots
Confirmation Number Not Found	To check whether the system displays a confirmation number not found message or not	The system displays a confirmation number not found message	The system displays a confirmation number not found message	P	Enter confirmation number: 1131311 No booking for confirmation number 1131311 found
Already Checked Out	The system displays an already checked out message	The system displays an already checked out message	It checks in the user with the same confirmation number	F	Enter confirmation number: 1131311 No booking for confirmation number 1131311 found Enter confirmation number: 12112022101 Single room 101 is booked from 12-12-2022 for 1 nights by Sam. MasterCard Credit card number: 1 Confirmation Number : 12112022101 Confirm checkin? (Y/N) ; y Check in confirmed Hit <enter> to continue

Testing Checkout:

	TEST STEP	EXPECTED TEST RESULTS	Screenshot	P	F

1.	Prompt to enter room number	After choosing the checkout option, the program should prompt for the room number	Please select:
			
			  B: Book a Room
			  C: Check In
			  R: Record Service
			  D: Check Out
			
			  Q: Quit
			
			Selection : D
			
			Checking out
			
			Enter room number:
				P	

2.	Enter room number	Room Number set to 101	Selection : D Checking out Enter room number: 101	P	

		TEST STEP	EXPECTED TEST RESULTS	Screenshot	P	F

	3.	Display final invoice	After entering the room number, the final invoice should be shown with all the correct charges.
			
			The charge should be
			
			Bar Fridge: 20.00
			
			Restaurant: 50.00
			
			Room Service: 40.00
				Enter room number: 101
				Charges for room: 101, booking: 12112022101
				Arrival date: 12-12-2022, Staylength: 1
				Guest: Sam, Address: King St, Phone: 987654
				Charges:
				    Bar Fridge : $0.00
				    Restaurant : $0.00
				    Room Service: $0.00
				Total: $0.00
				
				Accept charges(Y/N) :
							F

	4.	Prompt to accept charges	The program should prompt for the yes or no option for charges	Guest: Sam, Address: King St, Phone: 987654
				Charges:
				    Bar Fridge : $0.00
				    Restaurant : $0.00
				    Room Service: $0.00
				Total: $0.00
				
				Accept charges(Y/N) :
					P	

		TEST STEP	EXPECTED TEST RESULTS	Screenshot	P	F

	5.	Accept charges	The user enters yes	Charges:
				    Bar Fridge : $0.00
				    Restaurant : $0.00
				    Room Service: $0.00
				Total: $0.00
				
				Accept charges(Y/N) : y
					P	

	6.	Prompt to enter credit card type	The program should then prompt for the credit card type	Accept charges(Y/N) : y Charges accepted Enter credit card details V: Visa M: MasterCard Enter credit card type selection:	P	
	7.	Enter credit card type	The user should then enter the credit card number. Here M is chosen as option	Enter credit card details V: Visa M: MasterCard Enter credit card type selection: M Enter credit card number:	P	

		TEST STEP	EXPECTED TEST RESULTS	Screenshot	P	F
	8.	Prompt for credit card number	The credit card number should be shown	Enter credit card details V: Visa M: MasterCard Enter credit card type selection: M Enter credit card number: 1 ⬅ Enter CCV:	P	
	9.	Prompt for ccv	It should then prompt for CVV number which is 1 here	Enter credit card type selection: M Enter credit card number: 1 Enter CCV: 2 ⬅	P	
F	10.	Display checkout debit message	The checkout message should pop up with the amount. The amount should be 110.00	Enter credit card number: 1 Enter CCV: 2 MasterCard credit card number 1 was debited $0.00 ⬅ Hit <enter> to continue		F

Alternative Flow:

Test Name	Test Purpose	Expected Output	Result Output	Test Status	Screenshots

Room Number Not Found	To check if no booking message is prompt when room ID is not found	No active booking should pop up	No active booking should pop up	P	`Enter room number: 111`
					`No active booking found for room id 111` ←
					`Enter room number: |`

Charges Not Accepted	To check whether system displays a charges not accepted message or not	The system displays a charges not accepted message	The system displays a charges not accepted message	P	`Accept charges(Y/N) : n` ← `Charges not accepted`
Charges Not Accepted	To check whether the system displays a checkout cancelled message or not	The system displays a checkout cancelled message	The system displays a checkout cancelled message	P	`Accept charges(Y/N) : n` ← `Charges not accepted` `Checking out cancelled` ←

User Cancels	To check whether the system displays a cancelled message or not	The system displays a cancelled message	The system displays a cancelled message	P	`Enter room number:` ←
					`CheckoutUI: User cancelled at input room number`
					`Checking out cancelled`

It is possible to charge a room for service after the guest has checked out

The check out was successfully done.

```
Enter room number: 101
Charges for room: 101, booking: 12112022101  <---
Arrival date: 12-12-2022, Staylength: 1
Guest: Sam, Address: King St, Phone: 987654
Charges:
    Bar Fridge   :     $0.00
    Restaurant   :     $0.00
    Room Service:      $0.00
Total: $0.00

Accept charges(Y/N) : y
Charges accepted

Enter credit card details
V:      Visa
M:      MasterCard
Enter credit card type selection: M
Enter credit card number: 1
Enter CCV: 2
MasterCard credit card number 1 was debited $0.00
Hit <enter> to continue
Checking out completed  <---

    -
```

After user checkout, the user again tries to check in with the same confirmation number and user is able to check in again.

```
Enter confirmation number: 12112022101

Single room 101 is booked from 12-12-2022 for 1 nights by Sam.
MasterCard Credit card number: 1
Confirmation Number : 12112022101  <---
Confirm checkin? (Y/N) : y
Check in confirmed  <---
Hit <enter> to continue
Checking in completed
```

After check-in, the user is then able to add any service charge as shown below:

```
Please select:

    B:      Book a Room
    C:      Check In
    R:      Record Service
    D:      Check Out


    Q:   Quit



Selection : R

Recording service

Enter Room Id: 101
B:          Bar Fridge
R:          Restaurant
S:          Room Service
Enter service typeB
Enter cost: 1000←

Room 101 charged $1000.00 for Bar Fridge

Hit <enter> to continue
```