



PROGRAMMING FUNDAMENTALS
CCS1142 – Section: 1505
First Semester 2019

Project

Name: _____ ID: _____

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Write a hotel reservation program that enables users to book room(s).

In order to book room(s), the users need to provide their information.

Next, the system will ask them about the number of rooms they want to book and their preferences (e.g., nice view, high, or smoking rooms).

Then confirms the reservation and calculates the total, which includes vat (5%).

After that, the system should deduct the total amount from the user account balance.

Finally, the system prints a summary of the reservation.

Hints:

You first need to define all the needed variables and arrays

a. Costumer array

{ID - Name – Address - Account balance}

b. Hotel room array (you choose your number of rooms, but it should not be less than 50)

501	502	503	504	505	506	507	508	509	510
401	402	403	404	405	406	407	408	409	410
301	302	303	304	305	306	307	308	309	310
201	202	203	204	205	206	207	208	209	210
101	102	103	104	105	106	107	108	109	110

c. Generate random information for the first 4 users and the 5th user should be entered by the user from the keyboard.

1	Sami	Riyadh	1000
2	Mohamed	Jeddah	500
3	Khaled	Madinah	2000
4	Nasser	Makkah	1000
5	Input	Input	Input

d. The system first should randomly select some of the rooms and make them unavailable.

e. They system should ask the user to input number of desire rooms.

f. The system should ask the user about their preference rooms.

g. The system should check the availability of the requested rooms before completing the booking.

h. When the rooms are available, the system should change their status and make them unavailable.

i. The system should calculate the total with the tax and then compare it with the user's account balance to ensure that there is enough balance (money) in his/her account.

j. Deduct the total from the user's account balance and change it.

k. Complete the booking and print a summary about all the transactions