Project Phase One   *Due Date: Sunday. 11/12/2020 by 11:30 pm (on ITC)*

Notes:

The Project Phases should be submitted by the due date and time (Late Project phases will not be accepted for any reason) on ITC.

The project phases are individual student effort and copying those phases will be treated as a cheating attempt, which may lead to FAILING the course.

Project title: Hotel reservation system

In this Phase, you will need to create a **Hotel Reservation System** for reserving, deleting, changing, or printing rooms information on the system.

- Each room will have a number (integer) and type (String).
  Consider the hotel has the following room numbers: 01, 02, 03 ….. 50.

- Each room has the following types: Single, Double, Deluxe and King.

At this phase, the program will display the following main menu to the user:

Please Select an Option (1-6):

1- Reserve an available room.

2- Choose room type.

3- Change room

4- Delete the reserved room.

5- Delete all reserved rooms.

6- Show all reserved rooms information.

7- Exit System.

This menu will keep showing after each time a user selects an option and that option is performed.

Each option should be in a method, and the details of the options are as follow:

- **Void reserveRoom();**

  Ask user to enter a valid room number (01 – 50).
    - If the entered room number is not valid, keep asking him to enter a valid room number.
    - If user entered a valid room number, show a message that the room has been reserved and show the room number.

- **void selectRoomType();**

  Ask user to enter a valid room type (Single, Double, Deluxe and King)
    - If the entered room type is not valid, keep asking him to enter a valid room type.
    - If user entered a valid room type, show a message that the room type has been reserved and show the room type.

- **void changeRoom();**

  Ask user to enter a valid room number (01 – 50).
    - If the entered room number is not valid, keep asking him to enter a valid room number.
    - If user entered a valid room number, show a message that the room has been changed.
    - At this phase, nothing will be changed. Only show the message.

- **void deleteReservedRoom();**

  Ask user to enter a valid room number (01 – 50).
    - If the entered room number is not valid, keep asking the user to enter a valid room number.
    - If user entered a valid room number, show a message that the room has been deleted.
    - At this phase, nothing will be deleted. Only show the message.

- **void deleteAllReservedRoom();**

    - On this phase, only print that all reserved room have been deleted.

- **void *showAllReservedRoomsInformation* ();**

    - On this phase, only print the following message " Thank you for booking with us".

- **Exit System**

  This is not a method, it just an option to exit the main menu.

  Note: Use the proper documentation (comments) and Follow Java Style (indentations and curly braces … etc).

  Please submit before deadline, no submission will be accepted after the deadline at any reason.

Sample of how your run should looks like:

```
----------------------------------------
Please select an option (1-7)
1- Reserve an available room.
2- Choose room type.
3- Change room
4- Delete the reserved room.
5- Delete all reserved rooms.
6- Show all reserved rooms information.
7- Exit System.

8
Sorry, you have enter a wrong number

----------------------------------------
Please select an option (1-7)
1- Reserve an available room.
2- Choose room type.
3- Change room
4- Delete the reserved room.
5- Delete all reserved rooms.
6- Show all reserved rooms information.
7- Exit System.

1
please enter a valid room number between 1 and 50 :
55
sorry, you have eneterd an invalid room number
please enter a valid room number between 1 and 50 :
43
Thank you, room number 43 has been reserved for you

----------------------------------------
Please select an option (1-7)
1- Reserve an available room.
2- Choose room type.
3- Change room
4- Delete the reserved room.
```

```
-------------------------------------------
Please select an option (1-7)
1- Reserve an available room.
2- Choose room type.
3- Change room
4- Delete the reserved room.
5- Delete all reserved rooms.
6- Show all reserved rooms information.
7- Exit System.

2
Please select the number of room type as follow:
1- Single
2- Double
3- King
4- Deluxe
5
Sorry, there is no room type with number: 5
Please select the number of room type as follow:
1- Single
2- Double
3- King
4- Deluxe
3
Thank you, the King room has been reserved for your

-------------------------------------------
Please select an option (1-7)
1- Reserve an available room.
2- Choose room type.
3- Change room
4- Delete the reserved room.
5- Delete all reserved rooms.
6- Show all reserved rooms information.
7- Exit System.


-------------------------------------------
Please select an option (1-7)
1- Reserve an available room.
2- Choose room type.
3- Change room
4- Delete the reserved room.
5- Delete all reserved rooms.
6- Show all reserved rooms information.
7- Exit System.

4
please enter the room number that you want to delete
5
Thank you, room number 5 has been deleted

-------------------------------------------
Please select an option (1-7)
1- Reserve an available room.
2- Choose room type.
3- Change room
4- Delete the reserved room.
5- Delete all reserved rooms.
6- Show all reserved rooms information.
7- Exit System.

5
Thank you, all your reserved rooms has been deleted

-------------------------------------------
Please select an option (1-7)
1- Reserve an available room.
```

Please select an option (1-7)
1- Reserve an available room.
2- Choose room type.
3- Change room
4- Delete the reserved room.
5- Delete all reserved rooms.
6- Show all reserved rooms information.
7- Exit System.

6
Thank you for booking with us

Please select an option (1-7)
1- Reserve an available room.
2- Choose room type.
3- Change room
4- Delete the reserved room.
5- Delete all reserved rooms.
6- Show all reserved rooms information.
7- Exit System.

7
you are exiting the system, Thank you!