Problem Description:

Create a VB console application to fulfill the following requirements:

1) You are to create a system that will store and display the seats in a cinema and will allow the user to reserve a seat to watch a particular show/performance.

2) Issues to address include displaying the seating chart with proper designation of whether a seat is open or has been reserved, designing the process to reserve a seat, updating the data structure and allowing the system to be used repeatedly until the user decides to quit.

Problem Specifics:

1) To begin, use the code that you wrote for Homework Assignment #9. You may wish to either rename that file or else to create a new project and then simply copy and paste that code into this project.

2) You will use a two-dimensional integer array (cinema has four rows with five seats in each row) to hold the seating information.

3) Use simple integers to represent if a seat is open (0 means open) or reserved (1 means reserved).

4) Program should begin by initializing the cinema to be totally empty. This is done by storing a 0 in each of the array locations.

5) Design a well-crafted and easy to use interface. Start by providing an introductory message and follow it by displaying the seating chart. This is done by printing the array to the screen in the same manner as was done in Homework Assignment #9. Next, ask the user to select a row and column value for the seat desired. If this seat is taken, an appropriate message should be output. If the seat is open, it should be reserved for the user with an appropriate message being output (e.g. Row 3, Seat 2 has been reserved for you!). Then, the seating map should be output to the screen. No matter the result, the program should give the user the choice to select another seat or to stop/quit.

6) Seats are selected and assigned one at a time - meaning that the user does not have the ability to select 2 or more seats at a time.

7) When the user chooses to quit, the final seating chart should be displayed and the program halts.

Notes:

- Your program must be properly commented and formatted. There are to be no spelling/typographical errors. Additionally, proper indentation is to be used and there should be no “line scrolling” that detracts from the readability of the program. Use white space appropriately.

- Use proper variable and constant names.

- Generate various runs and take screen shots of them. Create a word processing document called Hwk10_yourLastName.docx and first, paste into it the source code of the program. Then, paste the screenshots that you generated. Make sure that you have outputs that demonstrate all of the test possibilities.
Welcome to the theatre reservation system!

Here is the seating map of the theatre:

Row 1: 0 0 0 0 0
Row 2: 0 0 0 0 0
Row 3: 0 0 0 0 0
Row 4: 0 0 0 0 0

Enter the row (1-4) where you would like to sit: 2
Enter the seat (1-5) where you would like to sit: 5

Congratulations! Row 2, Seat 5 has been reserved for you?
Here is the seating map of the theatre:

Row 1: 0 0 0 0 0
Row 2: 0 0 0 0 1
Row 3: 0 0 0 0 0
Row 4: 0 0 0 0 0

Would you like to reserve another seat (Y/N)? N