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**Tutorial group (day, time, and tutor) – info is in your timetable:** Group B (Tuesday, 01.30 - 03.30 PM, Mr Deshan Sumanathilaka)

Fill the following table. For test input, expected output and output obtained, add as many cases as you have tested.

*See an example of a completed form in Blackboard.*

Task	Self-assessment (Select one)	Test input	Expected output	Output obtained	Comments
1	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1:	1: Displays 'Welcome to the New Theatre'	1: Displays 'Welcome to the New Theatre'	Correct.
2	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1:  2: Option = 0 or 'Do you want to continue the Program (Y/N)' N	1: Menu with <u>9</u> options  2: The Menu terminated without crashing	1: Menu with <u>9</u> options  2: The menu terminated without crashing	The Menu was implemented without any errors.

Insert screenshot of your menu here including the welcome message:

```
'Welcome to the New Theatre'
-----
Please Select an option (0-8):
  1) Buy a Ticket
  2) Print Seating Area
  3) Cancel Ticket
  4) List available seats
  5) Save
  6) Load
  7) Print Ticket Information and Total Price
  8) Sort Tickets by Price
   0) Quit
-----
Enter an Option:
```

3	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: Option 1 2:	1. 'You're going to buy a ticket' 2. Asking for the row and seat inputs	1. 'You're going to buy a ticket' 2. Asking for the row and seat inputs	<i>Buy_ticket</i> Method works correctly.
4	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: (Case 1) Option = 1 + row = 4, seat = 20  2: (Case 2) Option = 1 + row = 2, seat = 20	1: Shows 'Sorry, Incorrect Row number. Enter row number (01-03)'  2: Shows 'Sorry, Incorrect seat. Enter seat number (1-16)'	1: Shows 'Sorry, Incorrect Row number. Enter row number (01-03)'  2: Shows 'Sorry, Incorrect seat. Enter seat number (1-16)'	Validations work correctly.  Validations work correctly.

Insert screenshot of your output for task 4 here after buying a ticket for row 1, seat 1 and row 3, seat 20:

```
'Welcome to the New Theatre'
-----
Please Select an option (0-8):
  1) Buy a Ticket
  2) Print Seating Area
  3) Cancel Ticket
  4) List available seats
  5) Save
  6) Load
  7) Print Ticket Information and Total Price
  8) Sort Tickets by Price
  0) Quit
-----
Enter an Option: 2
Printing your seating area(s)
*****
*  STAGE  *
*****
X00000 000000
00000000 00000000
0000000000 000000000X
```

5	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: Option = ( <i>Wrong Datatype(s)/ Input(s)</i> ) ex: <b>10, A, b, \$</b>	1: Invalid input. Please enter a number between 0 and 8	1: 'Invalid input. Please enter a number between 0 and 8'	'Number Format Exception' Validated.
6	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: (Case 1) Option = 1 + row = 2, seat 11  2: Option = 3 + ( <i>Case 1</i> )	1: Shows 'Thanks for Buying the Ticket Seat: 11, Row: 2, Price: £69.0'  2: Shows 'We Cancelled your ticket Seat: 11, Row: 2'	1: 'Thanks for Buying the Ticket Seat: 11, Row: 2, Price: £69.0'  2: 'We Cancelled your ticket Seat: 11, Row: 2'	<b>Buy_ticket</b> Method works correctly.  <b>Cancel_ticket</b> Method works correctly.
7	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: (Case 1) Option = 1 + row = 1, seat = 4 + Option 2  2: Option = 1 + ( <i>Case 1</i> ) + Option 2	1: Prompt message and show the eating area with the correct seat taken.  2: Shows 'Already occupied' and seating area remain the same	1: Prompt message and show the seating area with the correct seat taken.  2: Shows 'Already occupied' and seating area remain the same	<b>print_seating_area</b> method Works Correctly.  Works Correctly and remains "1" and "X".
8	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: Option = 4	1: Shows the available seats in each row	Shows the available seats in each row	<b>show_available</b> method works correctly.
9	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: (Case 01) Option = 5  2: (Case 02) Option = 6	1: Saves 3 arrays with the row's information in a file <b>rows.txt</b>  2: Loads the file saved in <i>Case 01</i> and restores 3 row's information	1: Saves 3 arrays with the row's information in a file <b>rows.txt</b>  2: Loads the file saved in <i>Case 01</i> and restores 3 row's information	Arrays Successfully saved into the file.  Arrays Successfully loaded back to the "Theatre Program".

10	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: Option = 3 + row = 1, seat 1  * All the Seats are empty.	1: Shows 'Cancellation Unsuccessful'	1: Shows 'Cancellation Unsuccessful'	Validations work correctly.
11	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: (Updated <b>Buy_ticket</b> )  Option = 1+ Name = John + Surname = Doe + Email = @abc.com + row = 1 + seat = 1	1: Creating an ArrayList for tickets and shows  'Thanks for Buying the Ticket' Seat: 1, Row: 1, Price: £39.0'	1: Creating an ArrayList for tickets and shows  'Thanks for Buying the Ticket' Seat: 1, Row: 1, Price: £39.0'	Works correctly.
12	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: (Updated <b>Cancel_ticket</b> )  Option = 3+ row = 1 + seat = 1	1: Removes the objects from the ArrayList and Shows  'We Cancelled your ticket. Seat: 1, Row: 1'	1: Removes the objects from the ArrayList and Shows  'We Cancelled your ticket. Seat: 1, Row: 1'	Works correctly.
13	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: Option = 7	1: Print Ticket information and the total cost of all tickets	1: Print Ticket information and the Total Price of all tickets	Correct: Showed the ArrayList and the Total Price.
14	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: Option = 8	1: Sort the tickets by Price in ascending order	1: Sort the tickets by Price in ascending order	Correct: Sorted the Tickets by Price.
15	<p>Explain which testing strategy did you take (e.g., how you tested that the output is correct, different inputs, different values, wrong values, etc.)</p> <p>By entering incorrect inputs, such as strings and other out-of-range values for the row, seat, option, pricing, etc., it was determined whether the error messages were correctly displayed. Furthermore, I simply verified whether the implementation is correct by using print statements for array information and other variables. I also performed various validations to see if any incorrect inputs would conflict or if any required errors would be solved.</p>				

16	<p>Did you include comments in your code? Is your code indented? Did you use your own functions? Are your variable names informative?</p> <p>I added comments to describe how my code moves and indented it as required. I used my own functions, such as those for printing available seats, validating a seat selection, etc. The assigned variable names are all descriptive and informative, allowing people to understand the code.</p>
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Are there any parts of the coursework which you would like to get feedback?

I would really appreciate general comments and feedback about my code.

**DEMO: You will have to demonstrate your understanding of your code during a tutorial (week 10 or 11). Remember to reference any websites, or technologies that you used in this coursework. Tasks 9-15 will not be marked if you do not attend the demo.**