

**Student name:** Hashim Kalam

**Student ID:** 20211291

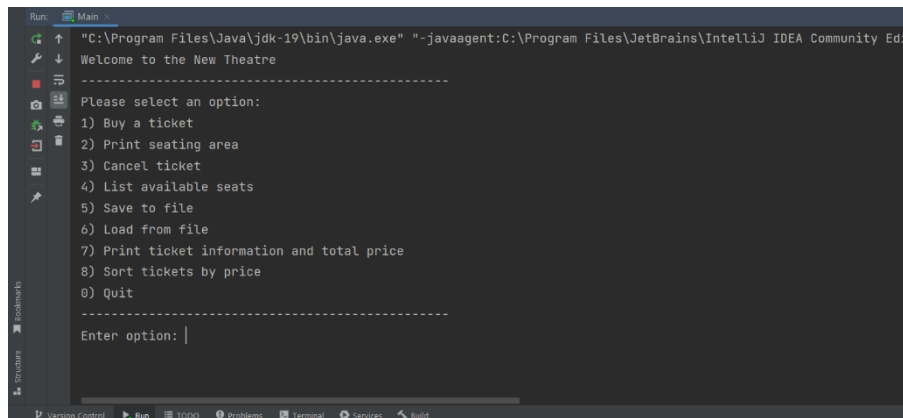
**Tutorial group (day, time, and tutor) – info is in your timetable:**

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: Welcome to the New Theatre	1: 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 selected	1: Menu with 9 options 2: Program ends	1: Menu with 9 options 2: Program ends	Menu working correctly

**Insert screenshot of your menu here including the welcome message:**



3	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: Option 1 + row = 4, seat = 10	1: Shows "Row number does not exist. Please try again! (1 - 3)"	1: Shows "Row number does not exist. Please try again! (1 - 3)"	Error message displaying correctly
4	<input checked="" type="checkbox"/> Fully implemented and working	1: Option 1 + row = 3. Seat = 10 + option 2	1. Shows "Thank you for your purchase!"	1. Shows "Thank you for your purchase!"	Booking and letting the user

	<div><input type="checkbox"/>Partially implemented</div> <div><input type="checkbox"/>Not attempted</div>	2: (case 1) + Option 1 + row = 1, seat = 2 + option 1	2: Shows both seats are taken.	2: Shows both seats are taken.	know correctly.  Displaying that the seats are already booked correctly
--	---	---	--------------------------------	--------------------------------	---

Insert screenshot of your output for task 4 here after buying a ticket for row 4 and seat 10, row 1, seat 1 and row 3, seat 20:

```
Run: Theatre
5) Save to file
6) Load from file
7) Print ticket information and total price
8) Sort tickets by price
9) Quit
-----
Enter option: 1
Enter the name: Hussein
Enter the surname: Khalaf
Enter the email: hussein@gmail.com
Please input the row number: 4
Please input the seat number: 10
Row number does not exist. Please try again! (1 - 3)
-----
Please select an option:
1) Buy a ticket
2) Print area
```

```
Run: Theatre
6) Load from file
7) Print ticket information and total price
8) Sort tickets by price
9) Quit
-----
Enter option: 1
Enter the name: Hussein
Enter the surname: Khalaf
Enter the email: hussein@gmail.com
Please input the row number: 1
Please input the seat number: 1
Thank you for purchasing a ticket!
-----
Please select an option:
1) Buy a ticket
2) Print area
```

```
Run: Theatre
6) Load from file
7) Print ticket information and total price
8) Sort tickets by price
9) Quit
-----
Enter option: 1
Enter the name: John
Enter the surname: Doe
Enter the email: johnson@gmail.com
Please input the row number: 3
Please input the seat number: 20
Thank you for purchasing a ticket!
-----
Please select an option:
1) Buy a ticket
2) Print area
```

5	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: Option 2	1. Prints the seating area.	1. Prints the seating area.	Printing the seating area correctly as mentioned in the coursework
---	---	-------------	-----------------------------	-----------------------------	--

Insert screenshot of your output for task 5 here after inputting the option 2 for printing the seating area:

```

Run: Main
8) Sort tickets by price
9) Quit
Enter option: 2
*****
* STAGE *
*****
X00000 000000
00000000 00000000
0000000000 000000000X
*****
Please select an option:
1) Buy a ticket
2) Print seating area
3) Cancel ticket
4) List available seats
5) Save to file

```

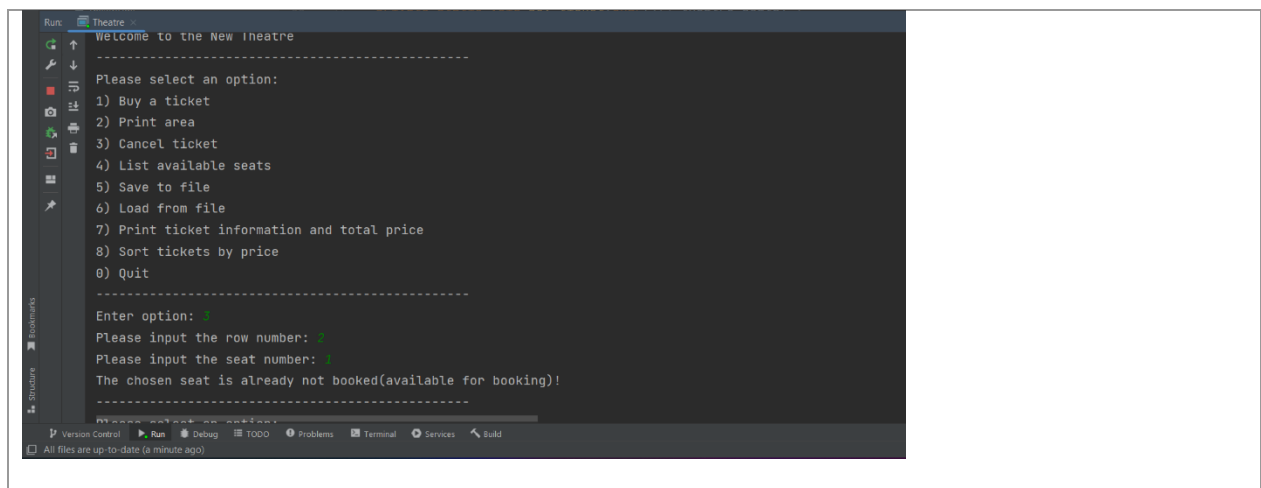
6	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1. Option 3 + row = 1. Seat = 1  2. Option 3 + row = 2. Seat = 1	Shows "The seat has successfully been cancelled!"  2. Shows "The chosen seat is already not booked (available for booking)!"	Shows "The seat has successfully been cancelled!"  2. Shows "The chosen seat is already not booked (available for booking)!"	Cancelling the tick correctly  Displaying an error message if the ticket is booked correctly
---	---	--	--	--	--

Insert screenshots of your output for task 6 here after cancelling a ticket for row 1, seat 1 and row 2, seat 1 :

```

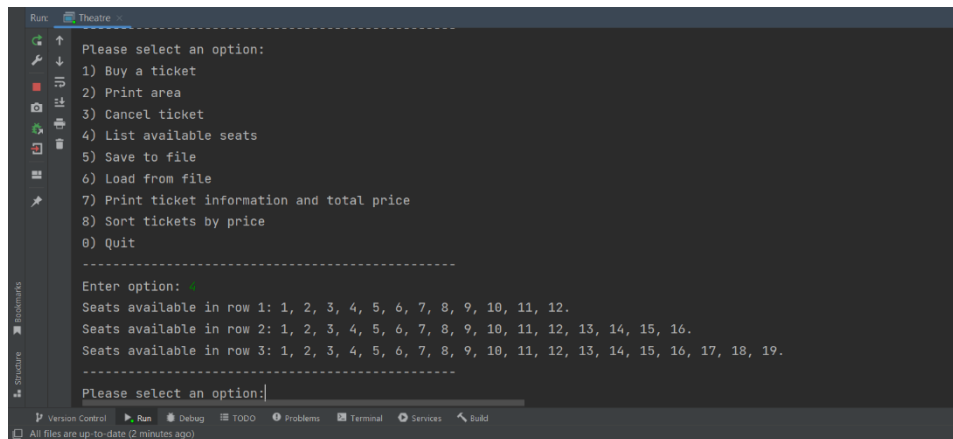
Run: Theatre
Please select an option:
1) Buy a ticket
2) Print area
3) Cancel ticket
4) List available seats
5) Save to file
6) Load from file
7) Print ticket information and total price
8) Sort tickets by price
9) Quit
Enter option: 3
Please input the row number: 1
Please input the seat number: 1
The seat has successfully been cancelled!

```



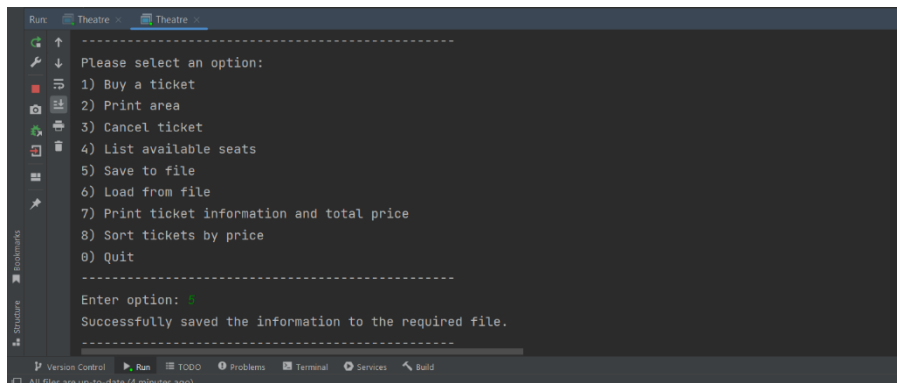
7	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1. Option 4	1. Shows "Seats available in row 1: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12. Seats available in row 2: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. Seats available in row 3: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19."	1. Shows "Seats available in row 1: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12. Seats available in row 2: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16. Seats available in row 3: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19."	Printing the seats available correctly. However, the positioning of the full stop is a bit off.
---	---	-------------	---	---	---

Insert screenshot of your output for task 7 here after inputting the option 4 for showing the available seats:



8	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1. Option 5	1. Shows "Successfully saved the information to the required file."	1. Shows "Successfully saved the information to the required file."	Saving the rows information correctly in a file
---	---	-------------	---	---	---

Insert screenshot of your output for task 8 here after inputting the option 5 for saving the rows' information to a file:



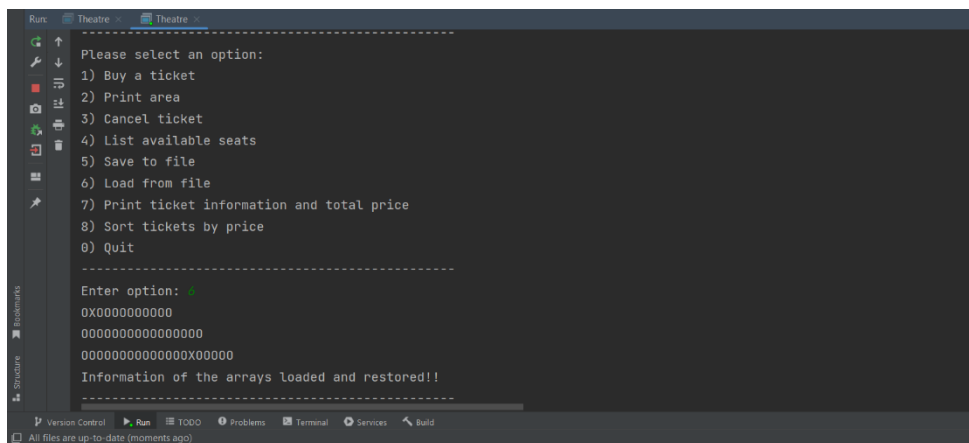
```

Run: Theatre Theatre
-----
Please select an option:
1) Buy a ticket
2) Print area
3) Cancel ticket
4) List available seats
5) Save to file
6) Load from file
7) Print ticket information and total price
8) Sort tickets by price
9) Quit
-----
Enter option: 5
Successfully saved the information to the required file.
-----
Version Control Run TODO Problems Terminal Services Build
All files are up-to-date (moments ago)

```

9	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1. Option 6	1. Shows “ XXXXXXXXXXXX OO OOOOOOOOOO OOOOOO OOOOOOOOOO OOOOOOOOOO Information of the arrays loaded and restored!!”	1. Shows “ XXXXXXXXXXXX OO OOOOOOOOOO OOOOOO OOOOOOOOOO OOOOOOOOOO Information of the arrays loaded and restored!!”	
---	---	-------------	--	--	--

Insert screenshot of your output for task 9 here after inputting the option 6 for loading and restoring the previous saved rows' information from the file:



```

Run: Theatre Theatre
-----
Please select an option:
1) Buy a ticket
2) Print area
3) Cancel ticket
4) List available seats
5) Save to file
6) Load from file
7) Print ticket information and total price
8) Sort tickets by price
9) Quit
-----
Enter option: 6
XXXXXXXXXXXX
OOXXXXXXXXXX
OOOOOOOOOO
OOOOOOOOOO
Information of the arrays loaded and restored!!
-----
Version Control Run TODO Problems Terminal Services Build
All files are up-to-date (moments ago)

```

10	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1. Option 7	1. Shows “Name: Hashim Surname: Kalam Email: hashim@gmail.c om Row number: 1 Seat number: 2 Price: 8.0	1. Shows “Name: Hashim Surname: Kalam Email: hashim@gmail.c om Row number: 1 Seat number: 2 Price: 8.0	
----	---	-------------	--	--	--

			Name: Steve Surname: Anchors Email: steveanc@gmail.com Row number: 3 Seat number: 15 Price: 9.0  The total price for the ticket is: \$17.0"	Name: Steve Surname: Anchors Email: steveanc@gmail.com Row number: 3 Seat number: 15 Price: 9.0  The total price for the ticket is: \$17.0"	
--	--	--	--	--	--

Insert screenshot of your output for task 10 here after inputting the option 7 for printing the ticket information from the array:

```

Run: Theatre x Theatre x
-----
Enter option: 7
Name: Hashim
Surname: Kalam
Email: hashim@gmail.com
Row number: 1
Seat number: 2
Price: 8.0

Name: Steve
Surname: Anchors
Email: steveanc@gmail.com
Row number: 3
Seat number: 15
Price: 9.0

The total price for the ticket is: $17.0
-----
  
```

11	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1. Option 8	1. Shows "Ticket sorted by the cheapest price first:  Name: John Surname: Doe Email: johndoe@gmail.com Row number: 1 Seat number: 10 Price: 8.0  Name: Steve Surname: Rogers Email: steve@gmail.com Row number: 2 Seat number: 5 Price: 8.5	1. Shows "Ticket sorted by the cheapest price first:  Name: John Surname: Doe Email: johndoe@gmail.com Row number: 1 Seat number: 10 Price: 8.0  Name: Steve Surname: Rogers Email: steve@gmail.com Row number: 2 Seat number: 5 Price: 8.5	Displays the ticket info from the array starting from the cheapest ticket price correctly.
----	---	-------------	---	---	--

			Name: Hashim Surname: Kalam Email: hashiiim@gmail.com Row number: 3 Seat number: 20 Price: 9.0"	Name: Hashim Surname: Kalam Email: hashiiim@gmail.com Row number: 3 Seat number: 20 Price: 9.0"	
--	--	--	---	---	--

**Insert screenshot of your output for task 11 here after inputting the option 7 for printing the ticket information sorting order from the cheapest:**

```

4) List available seats
5) Save to file
6) Load from file
7) Print ticket information and total price
8) Sort tickets by price
9) Quit
-----
Enter option: 7
Ticket sorted by the cheapest price first:

Name: John
Surname: Doe
Email: johndoe@gmail.com
Row number: 1
Seat number: 10
Price: 8.0

Name: Steve
Surname: Rogers
Email: steve@gmail.com
Row number: 2
Seat number: 5
Price: 8.5

Name: Hashim
Surname: Kalam
Email: hashiiim@gmail.com
Row number: 3
Seat number: 20
Price: 9.0
-----
  
```

<b>12</b>	<input type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted				
<b>13</b>	<input type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted				
<b>14</b>	Explain which testing strategy did you take (e.g., how you tested that the output is correct, different inputs, different values, wrong values, etc.)				

	Integration Testing – since different units/components got to be tested in the program, integration testing would be best to test the entire program.
<b>16</b>	<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>Yes, I think I included all in my code.</p>

Are there any parts of the coursework which you would like to get feedback?

**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.**