

Student name: Nadil Malalanayke

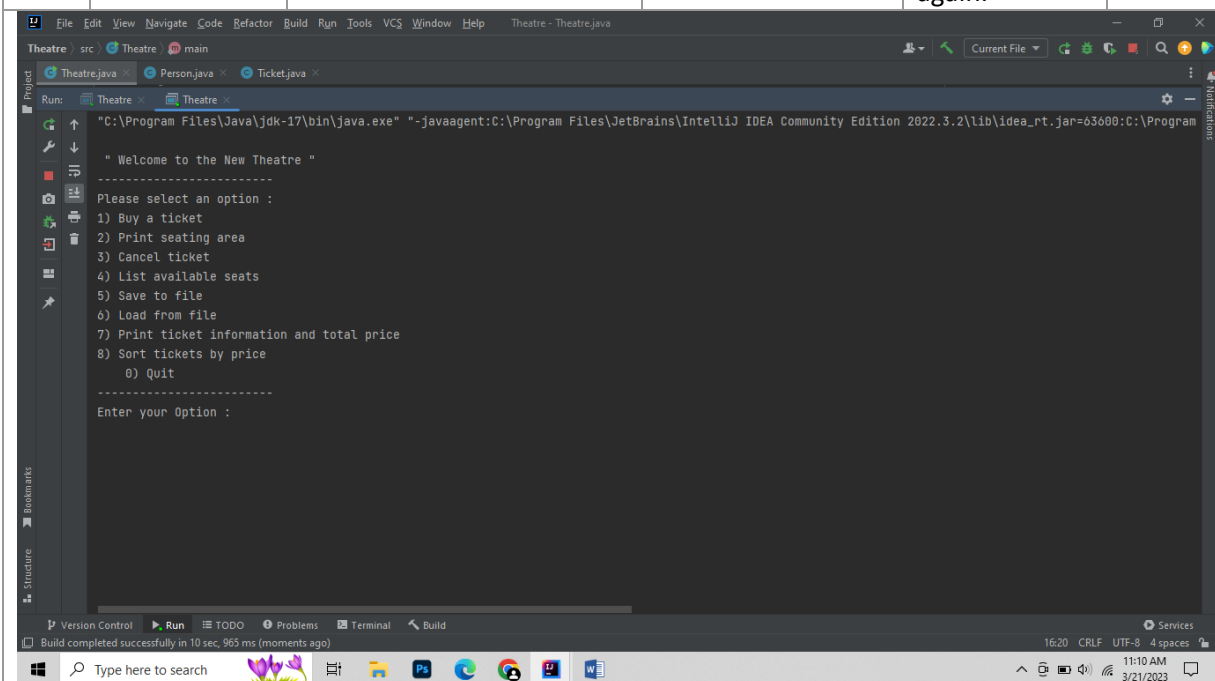
Student ID:20220705

Tutorial group (day, time, and tutor) – info is in your timetable: Group I
(Tuesday,3.30-5.30, Mr.Ruwan Egodawatte)

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: "Welcome to the New Theatre" with 9 options	1: "Welcome to the New Theatre" with 9 options	Correct
2	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1: Option 0 selected 2: Option 9 selected	1: Program ends 2: Shows error message without crashing program	1: Program ends 2: Shows error message without crashing program "Invalid selection, Please try again."	Menu Working Correctly



```
Run: "C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.3.2\lib\idea_rt.jar=63600:C:\Program Files\Java\jre-17\bin" -Dfile.encoding=UTF-8

Welcome to the New Theatre

Please select an option :
1) Buy a ticket
2) Print seating 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 your Option :
```

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=1, seat= 4 2. Option 1 + Row=2,seat= 11 3. Option 1 + Row=3,seat 22 4. Option 1 + Row=4,seat 10	1: Shows seating area with correct seat taken 2. Shows seating area with correct seat taken 3.shows "invalid seat number" 4. shows "invalid row number"	1: shows "Thank you! Booking Successful." 2: shows "Thank you! Booking Successful." 3: shows "You have to Input during 1 and 20" 4:shows "you have to input during 1 and 3"	All working Correctly
4	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1:Option 2 Selected	1: Shows seating area with correct seat taken	1: Shows seating area with correct seat taken	Print seating Area Correctly

```

Theatre - Theatre.java
Theatre src Theatre main
Run Theatre
8) Sort tickets by price
0) Quit
Enter your Option :
*****
*   STAGE   *
*****
X000000 000000
00000000 00000000
0000000000 000000000X

" Welcome to the New Theatre "
-----
Please select an option :
1) Buy a ticket
2) Print seating 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
0) Quit
-----
Enter your Option :
  
```

Insert screenshot of your output for task 4 here after buying a ticket for row 1, seat 1 and row 3, seat20:

5	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1:Option 1+(row=1,seat=3)+option 3 2.option1+(row=1,seat=6)+Option 3(row=1,seat=4)	1:Cancel the Seat you booked(row =1,seat=3) 2.shows"the seat is not Booked"	1:Cancel the Seat you booked And print "seat is Cancelled" 2.shows"the seat is not Booked"	Cancel the seat Correctly
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```

8) Sort tickets by price
0) Quit
-----
Enter your Option :
*****
*   STAGE   *
*****
000000 000000
00000000 00000000
0000000000 0000000000

" Welcome to the New Theatre "
-----
Please select an option :
1) Buy a ticket
2) Print seating 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
0) Quit
-----
Enter your Option :
  
```

screenshot of your output for task 4 here after cancelling a ticket for row 1, seat 1 and row 3, seat20 :

6	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1:Option 4+ input selected 2. After task 5 inputs+ Option 4 selected	1.Only shows available seats list 2.Only shows available seats list(shows cancelled seat as available)	1.Only shows available seats list 2.Only shows available seats list(shows cancelled seat as available)	Display the list with available seats Correctly
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```

Theatre - Theatre.java
Theatre src \ Theatre \ loadFile
Run: Theatre
6) Load from file
7) Print ticket information and total price
8) Sort tickets by price
0) Quit
-----
Enter your Option : 4

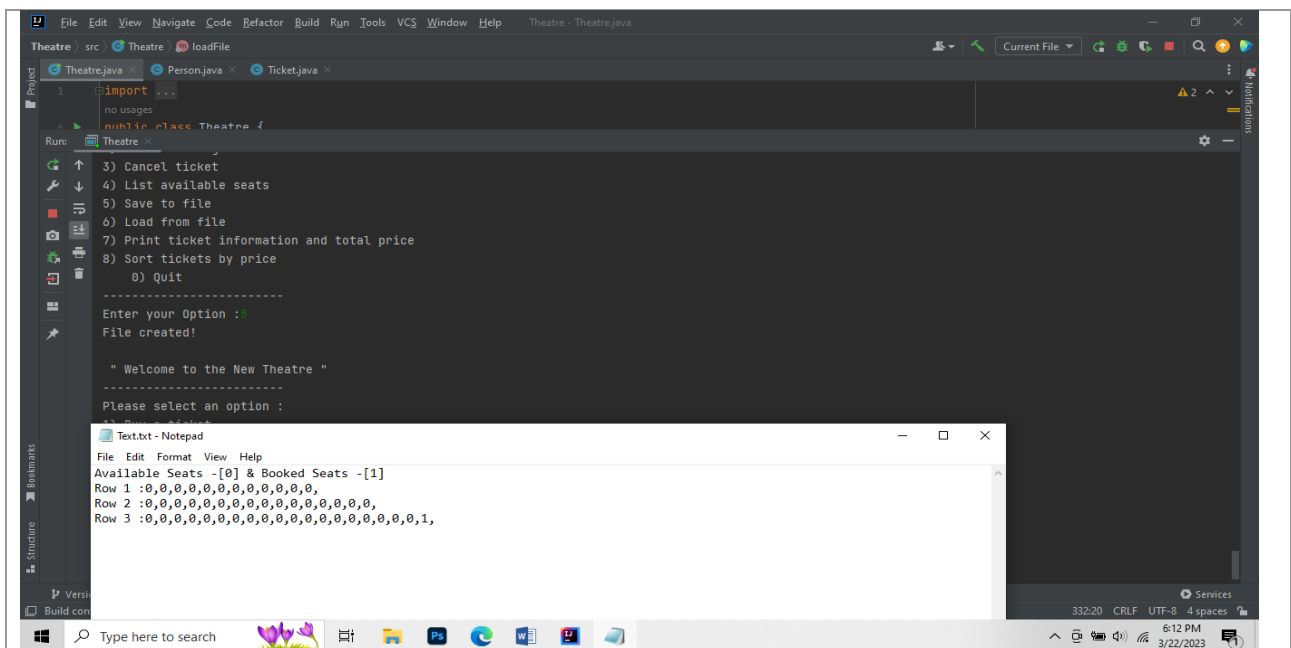
Seat available in row 1 :1,2,3,4,5,6,7,8,9,10,11,12,
Seat available in row 2 :1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,
Seat available in row 3 :1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,

" Welcome to the New Theatre "
-----
Please select an option :
1) Buy a ticket
2) Print seating 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
0) Quit
-----
Enter your Option :

```

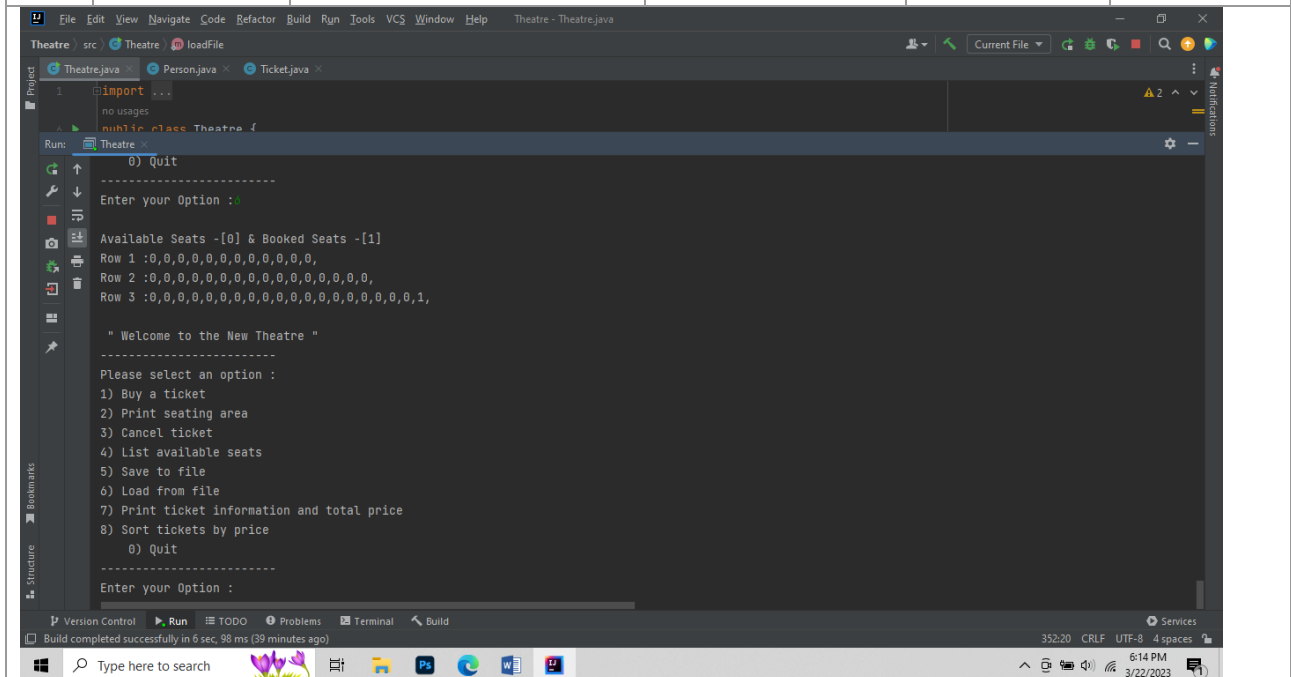
After task 5 inputs + Option 4 selected[Only shows available seats list(shows cancelled seat as available)]

7	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1.option 5 2.option1+ option5	1.Successfully saved data to a file and shows a message and creates a file with all seats as '0' 2. Successfully saved data to a file and shows a message and creates a file with booked seat as '1' other seats as '0'	1.Successfully saved data to a file and shows "Seats data saved to file: Text.txt" and file includes all seats as '0' 2. Successfully saved data to a file and shows a message and creates a file with booked seat as '1' other seats as '0'	Save File Correctly
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After buying row 3 seat 20 then option 5 selected

8	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1.Option 1 +option5+ option6 2.option 6 3. option1 + option5 + option 3 + option5 + option 6	1.Loads and Prints data that saved in file. 2. 'File not found. No data loaded.' 3. Loads and Prints data that saved in file.	1.Prints file's data Successfully 2. 'File not found. No data loaded.' 3. Loads and Prints data that saved in file.	Load Save file Correctly
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After buying row 3 seat 20 then option 5 selected then option 6 selected

9	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1.option 1(name=Nadil , surname= Malalanayake , email= nadil.20220705@iit.ac.lk)+ option 7	1. prints name, surname, email	1. prints name, surname, email	Working Correctly
10	<input type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1. .option 1+option 3(row=6)	1.prints" Invalid row number, Please try again."	1.prints" Invalid row number, Please try again."	Correct
11	<input type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1.option1+ option 7	1.Prints all data(name , surname, email, row, seat, price)	1.Prints all data(name , surname, email, row, seat, price)	Correct
12	<input type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1.option 1 + Option 7 2. option 1+ Option 7 +option 3+ Option 7	1. Asks to enter name, surname, email, row, seat, price and after that prints ticket info 2.removes the cancelled ticket data from ticket list	1. Asks to enter name ,surname, email, row, seat, price and after that prints ticket info 2.removes the cancelled ticket data from ticket list	Correct

```

1  import java.util.*;
   no usages
   public class Theatre {
       Run: Theatre
       " Welcome to the New Theatre "
       -----
       Please select an option :
       1) Buy a ticket
       2) Print seating 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 your Option : 1
       Enter Your Name : nadil
       Enter Your Surname : Malalanayake
       Enter Your Email : nadil.20220705@iit.ac.lk
       Enter Your Price : 100
       Row Number : 1
       You have to Input during 1 and 3
       Row Number : 1
       Seat Number : 3
       Sorry, Seat has already Booked
   
```

For Task 9,10,11,12

13	<input type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1. option 1 +option1+ Option 7 2.option 7	1. calculates and prints total of prices ' 2. prints" Total price of all tickets: 0"	1.Calculates and prints total of prices 2. prints" Total price of all tickets: 0"	Correctly work
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```

1  import java.util.*;
   no usages
   public class Theatre {
       Run: Theatre
       Name - Nadil
       Surname - Malalanayake
       Email - nadil.20220705@iit.ac.lk
       Row - 3
       Seat - 20
       Price - 100.0

       Name - nadil
       Surname - viksuna
       Email - nadil@gmail.com
       Row - 2
       Seat - 5
       Price - 60.0

       Name - mohan
       Surname - perera
       Email - mohan@gmail.com
       Row - 1
       Seat - 7
       Price - 120.0

       Total price :290.0
   
```

For task 13 unsorted price list and total price:

14	<input checked="" type="checkbox"/> Fully implemented and working <input type="checkbox"/> Partially implemented <input type="checkbox"/> Not attempted	1.option1(row=1,seat=3, Price=20(this is user input price)name=Nadil, Surname=Mal., Email=nadil@ac.lk)+	prints tickets info : name, surname, email, price ,row number, seat number and print ascending price order	prints tickets info : name, surname, email, price ,row number, seat number and print ascending price order	Working Correctly
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```

private static void seatShow(int[] row) {
    // ...
}

// Output:
Name - Nadil
Surname - viksura
Email - nadil@gmail.com
Row - 2
Seat - 5
Price - 60.0

Name - Nadil
Surname - Malalanayake
Email - nadil.20220705@iit.ac.lk
Row - 3
Seat - 20
Price - 100.0

Name - mohan
Surname - perera
Email - mohan@gmail.com
Row - 1
Seat - 7
Price - 120.0

```

For task 15 sorted part

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>For each task first I entered valid inputs to gain outputs and then entered wrong values to check whether it is showing an error message that I already entered for validation or crashing the programming. Then I entered multiple values to check whether it is running until I stop (buyTicket method).</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 included comments in my code for key parts and well indented the code. I did use my own functions in this code and I explained these functions well. Variable names are informative.</p>

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

I would like feedback on task 15 sorted part when I create this programme I had some bugs in task 14.

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.