

Course Title:	Object Oriented Analysis Design
Course Number:	COE 528
Semester/Year (e.g.F2016)	W2023

Instructor:	Olivia Das
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Assignment/Lab Number:	1
Assignment/Lab Title:	

Submission Date:	2023-01-28
Due Date:	2023-01-29

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*By signing above you attest that you have contributed to this written lab report and confirm that all work you have contributed to this lab report is your own work. Any suspicion of copying or plagiarism in this work will result in an investigation of Academic Misconduct and may result in a "0" on the work, an "F" in the course, or possibly more severe penalties, as well as a Disciplinary Notice on your academic record under the Student Code of Academic Conduct, which can be found online at: <http://www.ryerson.ca/senate/current/pol60.pdf>

Projects x | Files | Services

Ghori_Taha_coe528_lab1

Source Packages

lab1

Flight.java

Manager.java

Member.java

NonMember.java

Passenger.java

Ticket.java

Test Packages

Libraries

Test Libraries

Flight.java x | Manager.java x | Ticket.java x

Source | History |

lab1.Manager > main >

Test Results | Output x

Debugger Console x | Ghori_Taha_coe528_lab1 (run) x

We Will Now Ask You To Input Flight Details. Make Sure They Are Correct

--Please Enter Information in this order
Flight Number, Origin, Destination, Departure Time, Capacity, Price

456
c
d
12
200
300
Added a Flight to list:Flight 456, c to d, 12, Original Price: \$300.00

We Will Now Ask You To Input Flight Details. Make Sure They Are Correct

--Please Enter Information in this order
Flight Number, Origin, Destination, Departure Time, Capacity, Price

789
e
f
18:00
4
599
Added a Flight to list:Flight 789, e to f, 18:00, Original Price: \$999.00
Flight 123, a to b, 7, Original Price: \$100.00
Found Flight: Flight 789, e to f, 18:00, Original Price: \$999.00
--Booking Success!--
--Ticket Generated:
Candidate , Flight 456, c to d, 12, Original Price: \$300.00, Ticket Price: \$270.00
--Booking Success!--
--Ticket Generated:
Billy ,Flight 123, a to b, 7, Original Price: \$100.00, Ticket Price: \$50.00
--Booking Success!--
--Ticket Generated:
Ryan ,Flight 456, c to d, 12, Original Price: \$300.00, Ticket Price: \$300.00
--Booking Success!--
--Ticket Generated:
Joe ,Flight 789, e to f, 18:00, Original Price: \$999.00, Ticket Price: \$599.00
--Booking Success!--
--Ticket Generated:
Xavier ,Flight 789, e to f, 18:00, Original Price: \$999.00, Ticket Price: \$899.10
BUILD SUCCESSFUL (total time: 53 seconds)

main - Navigator x

Members > <empty>

Manager

bookSeat(int flightNumber, Passenger passenger, int capacity)
createFlights()
displayAvailableFlights(String flightNumber)
getFlight(int flightNumber): Flight
getFlights(): ArrayList<Flight>
getTickets(): ArrayList<Ticket>
main(String[] args)
flights: ArrayList<Flight>
tickets: ArrayList<Ticket>

The screenshot displays the NetBeans IDE interface with the following components:

- Projects View:** Shows the project structure including `Ghori_Taha_coe528_lab1`, `Source Packages`, `lab1`, and `Test Packages`.
- Source View:** Displays the `lab1.FlightTest` class with the following code:

```
244 boolean result = instance.bookASeat();
245
246 assertEquals(expResult, result);
247
248 /**
249  */
```
- Test Results View:** Shows the execution results for `lab1.FlightTest`. All 18 tests passed with a success rate of 100.00%. The tests include:
 - `testSetOriginalPrice` passed (0.0 s)
 - `testBookASeat` passed (0.0 s)
 - `testToString` passed (0.0 s)
 - `testGetFlightNumber` passed (0.0 s)
 - `testSetDestination` passed (0.01 s)
 - `testGetOriginalPrice` passed (0.0 s)
 - `testSetFlightNumber` passed (0.0 s)
 - `testSetNumberofSeatsLeft` passed (0.0 s)
 - `testSetDepartureTime` passed (0.0 s)
 - `testInvalidConstructor` passed (0.0 s)
 - `testGetDestination` passed (0.002 s)
 - `testSetOrigin` passed (0.0 s)
 - `testSetCapacity` passed (0.0 s)
 - `testGetCapacity` passed (0.0 s)
 - `testGetOrigin` passed (0.0 s)
 - `testGetDepartureTime` passed (0.0 s)
 - `testConstructor` passed (0.0 s)
- Members View:** Lists the methods of the `testToString` class, including `tearDownClass()`, `testBookASeat()`, `testConstructor()`, `testGetCapacity()`, `testGetDepartureTime()`, `testGetDestination()`, `testGetFlightNumber()`, `testGetNumberofSeatsLeft()`, `testGetOrigin()`, `testGetOriginalPrice()`, `testInvalidConstructor()`, `testSetCapacity()`, `testSetDepartureTime()`, `testSetDestination()`, `testSetFlightNumber()`, `testSetNumberofSeatsLeft()`, `testSetOrigin()`, and `testSetOriginalPrice()`.
- Output View:** Displays the output of the `testToString` method, showing the object's state:

```
setOriginalPrice
bookASeat
--Booking Success!--
toString
getFlightNumber
setDestination
getOriginalPrice
setFlightNumber
setNumberofSeatsLeft
setDepartureTime
getNumberofSeatsLeft
getDestination
setOrigin
setCapacity
getCapacity
getOrigin
getDepartureTime
```