Lesson 5

TestNG Tutorial Selenium Webdriver Testcase Building

Part 2: Annotations

Note and presentation: N.C. Danh

Faculty of Software Engineering

College of Information and Communication Technology

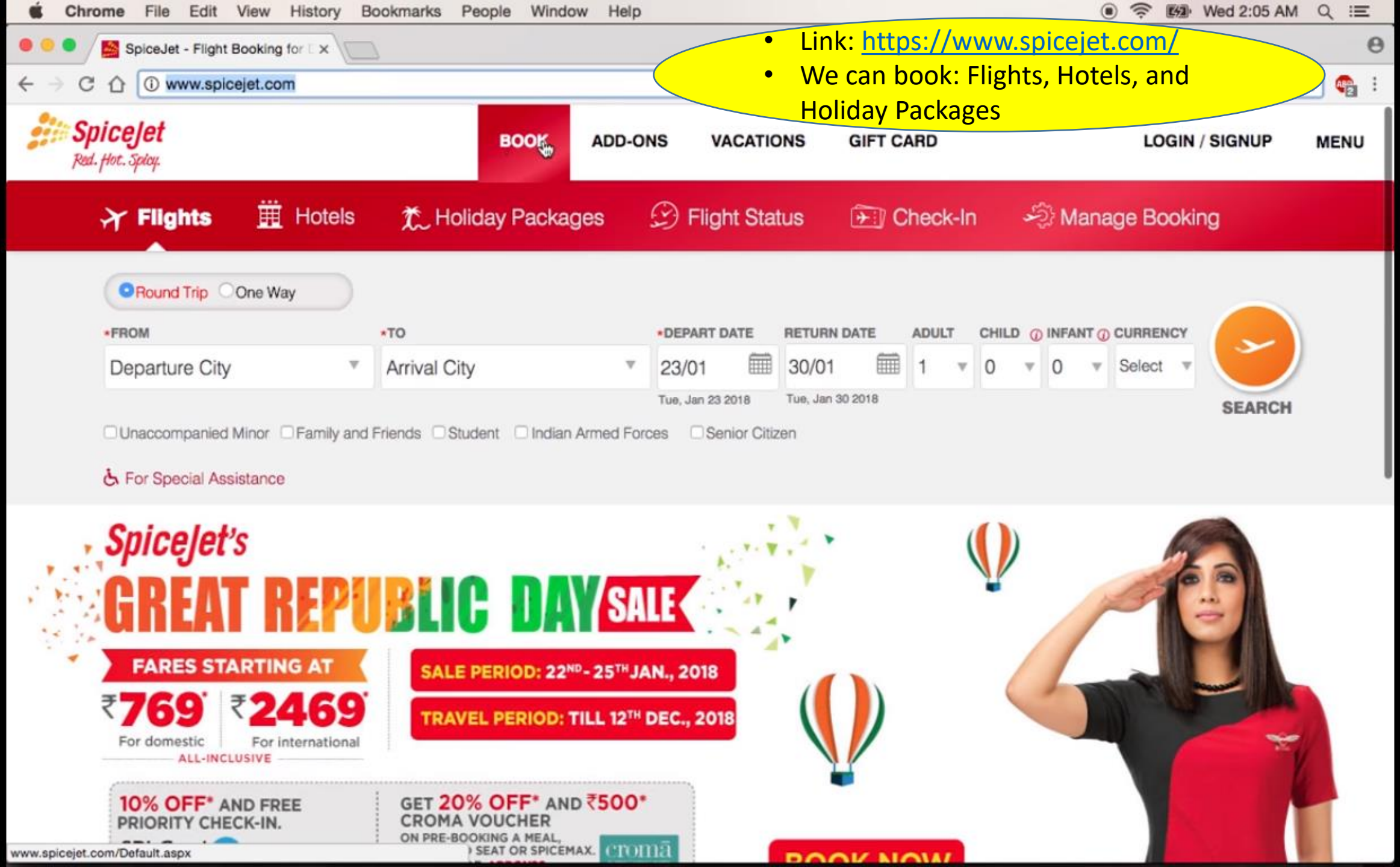
Can Tho University

22/03/2023

Annotations

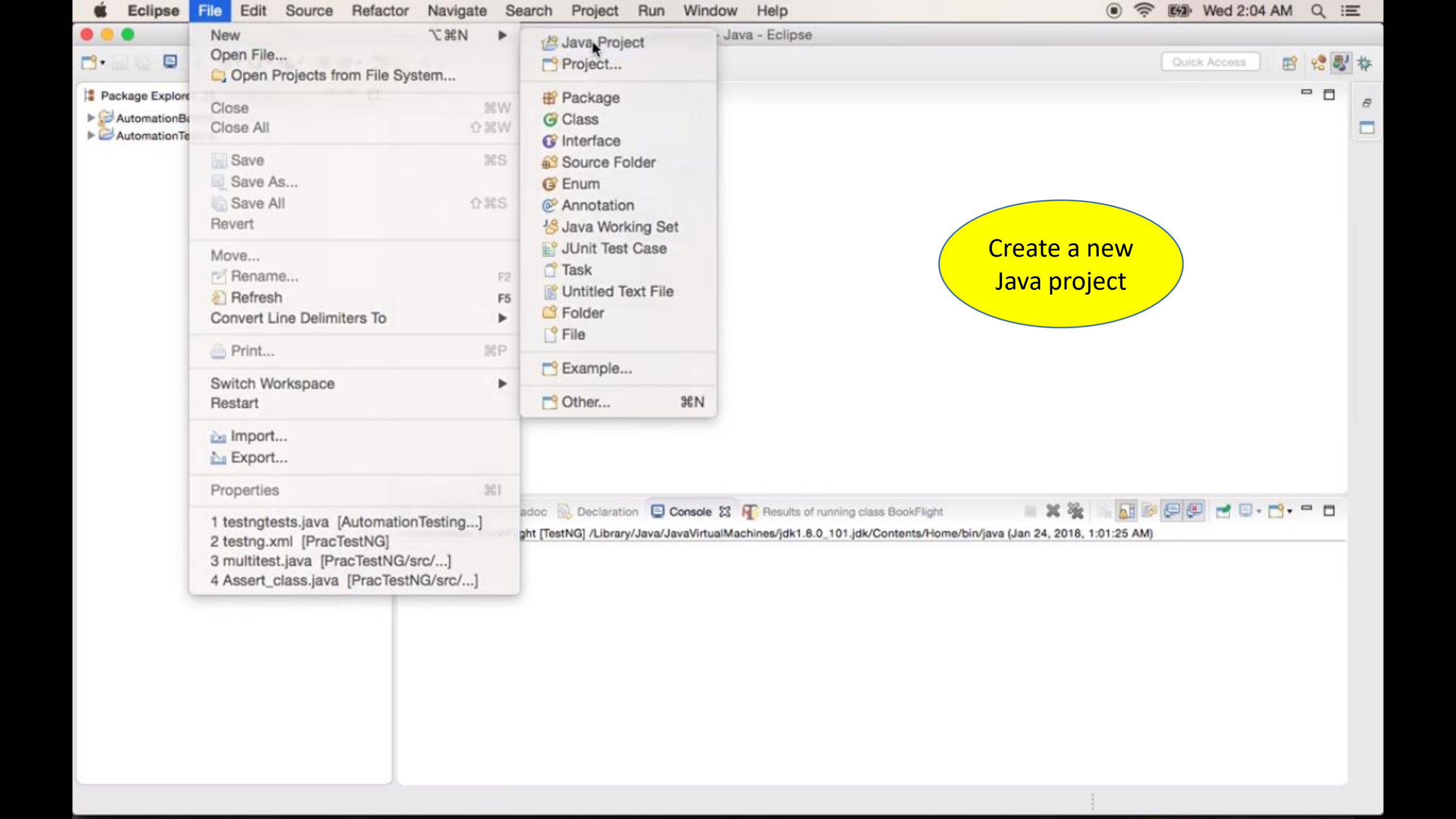
- Examples

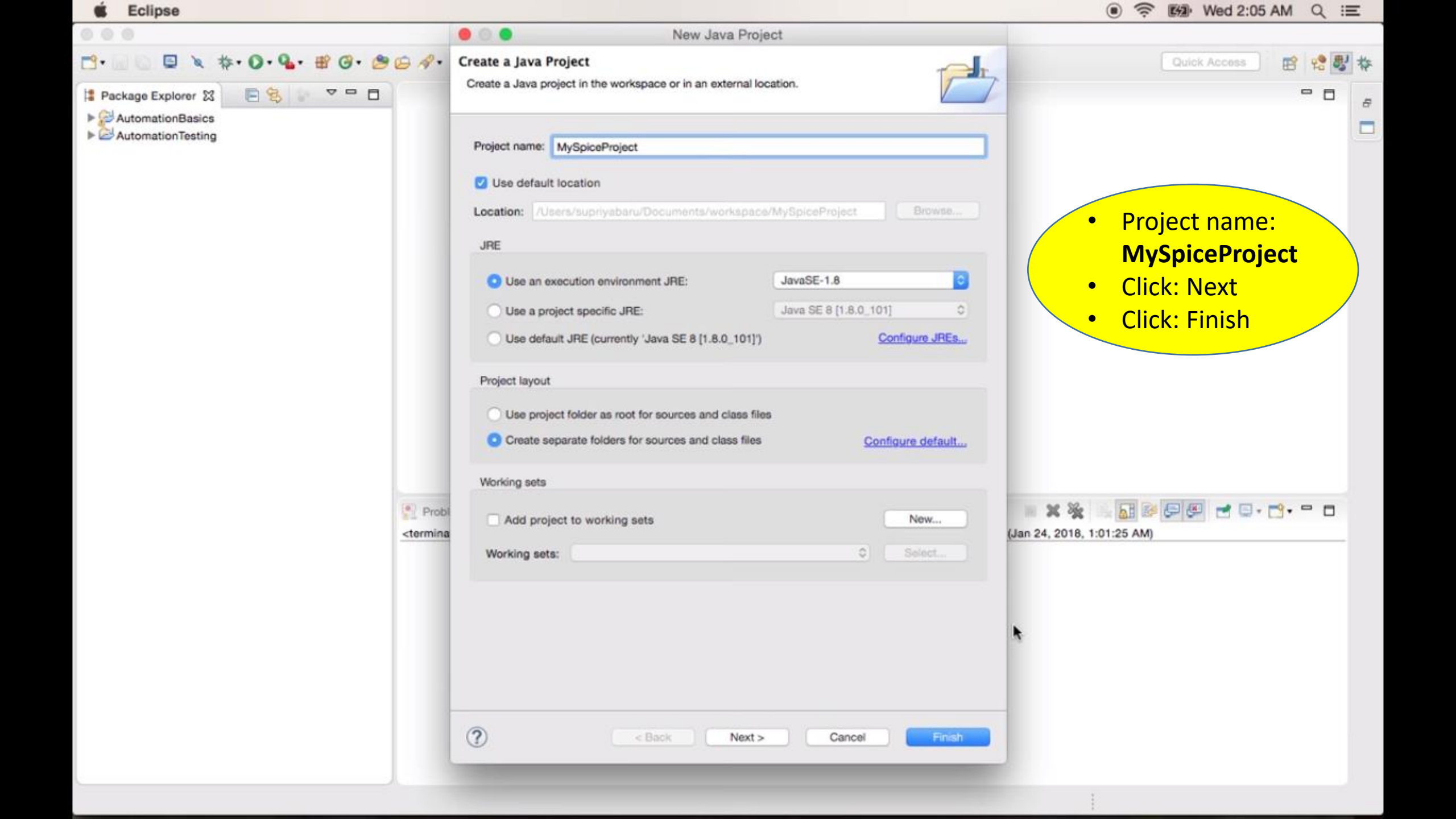
- Link: https://www.spicejet.com/
- We can book: Flights, Hotels, and Holiday Packages

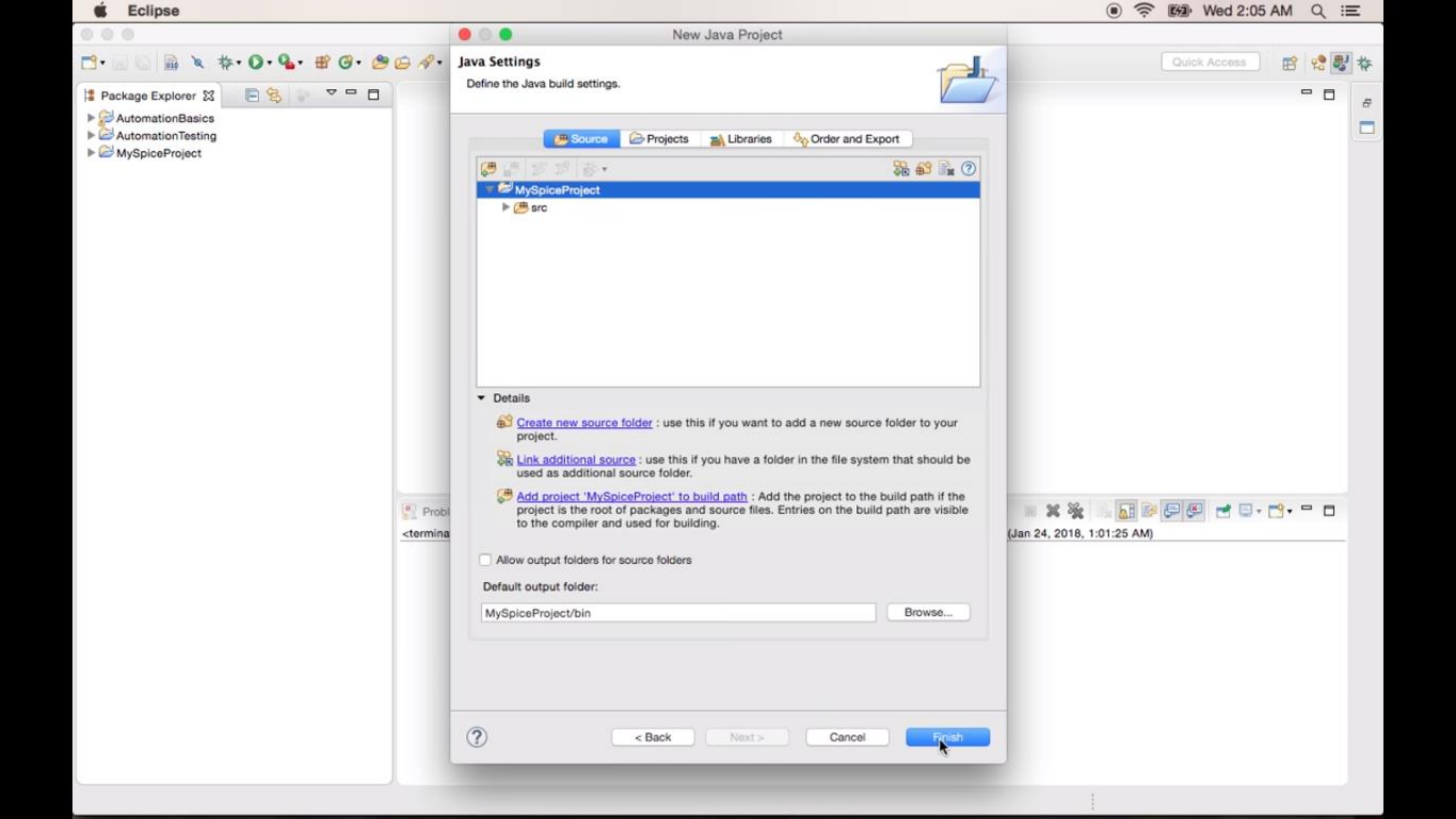


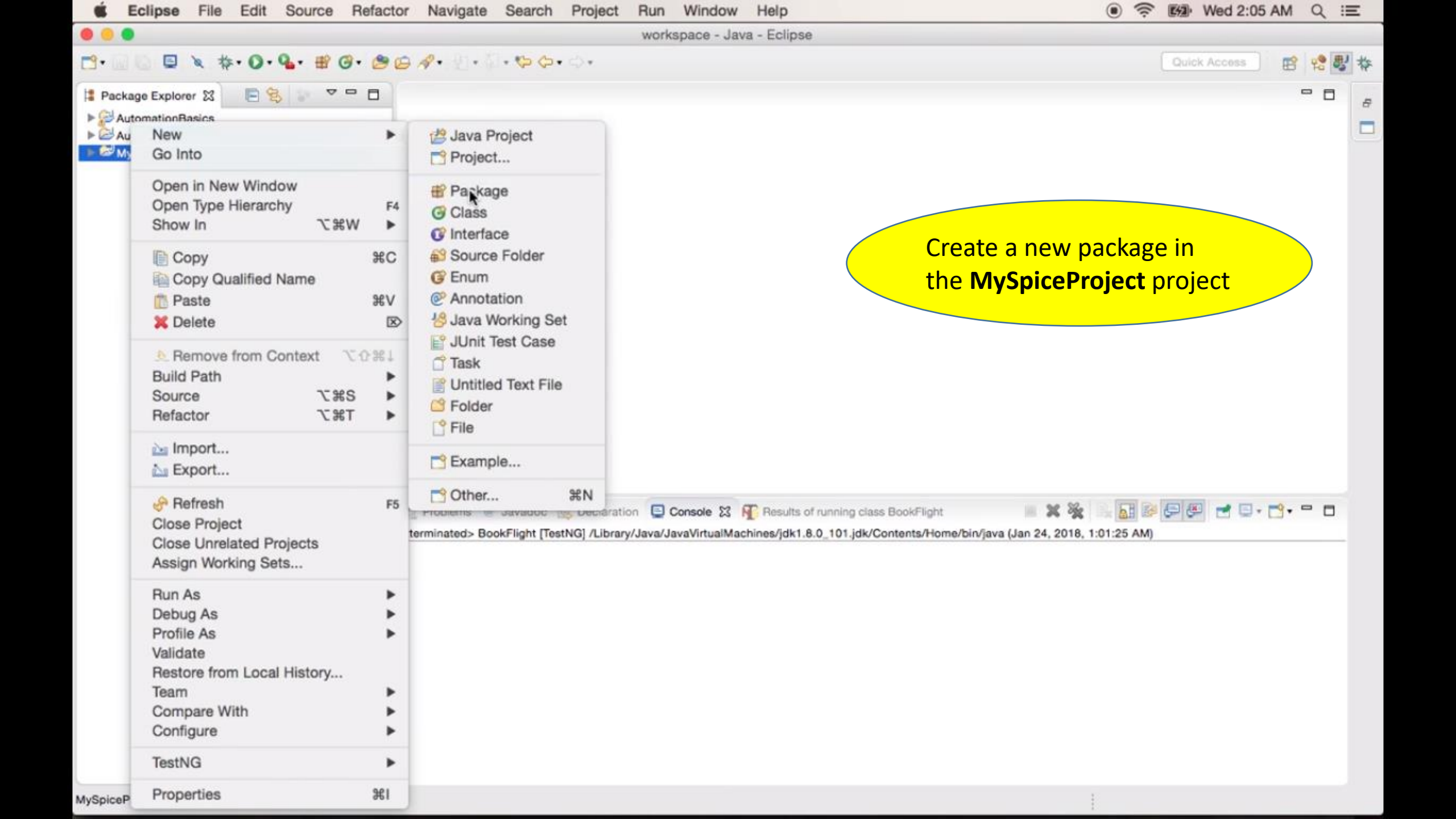
We need to structure the testing

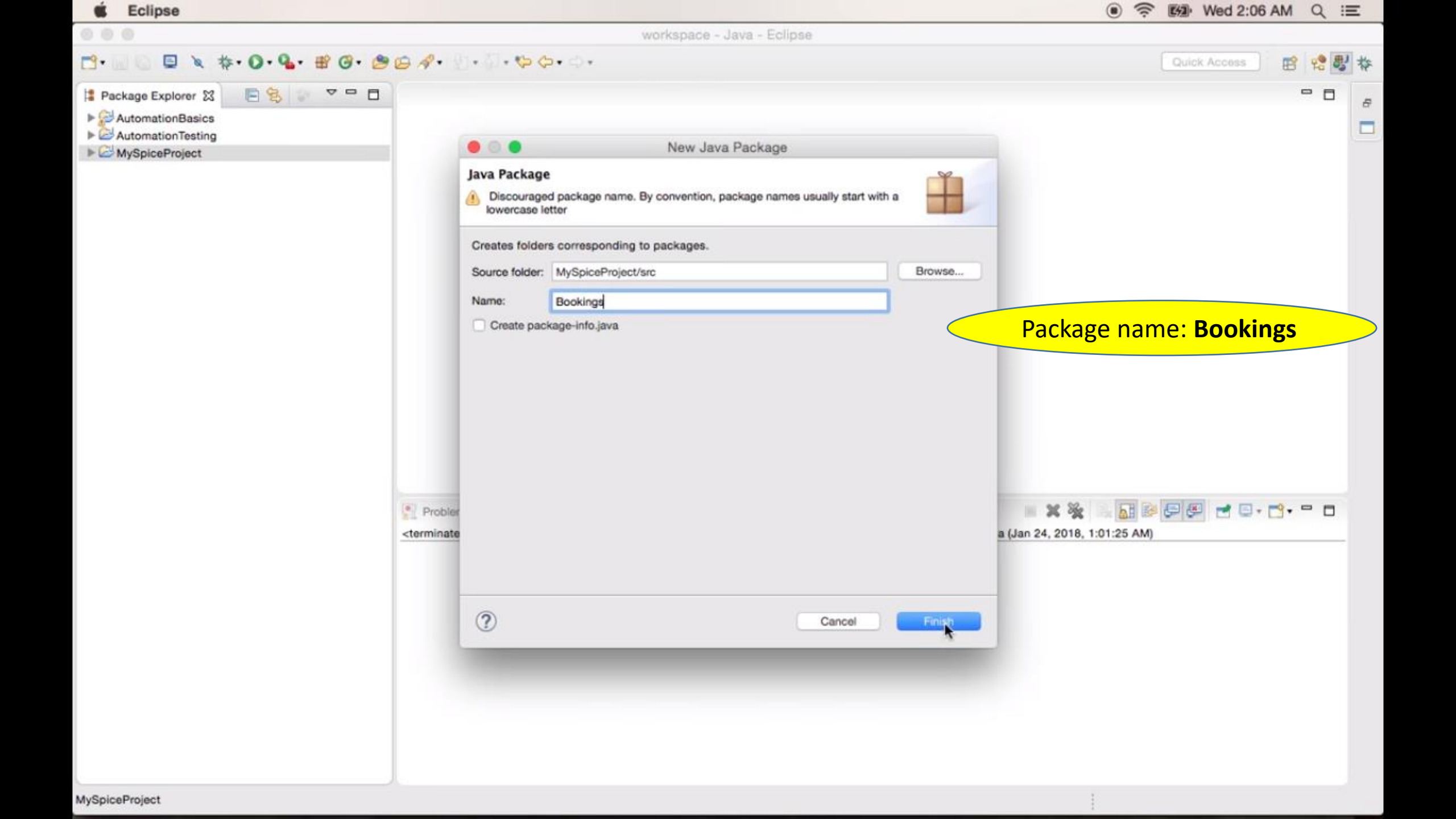
- To test Book, we can create some following packages:
  - Flights
  - Hotels
  - Holiday Packages
- Thus, creating packages can reply on functionalities of the system

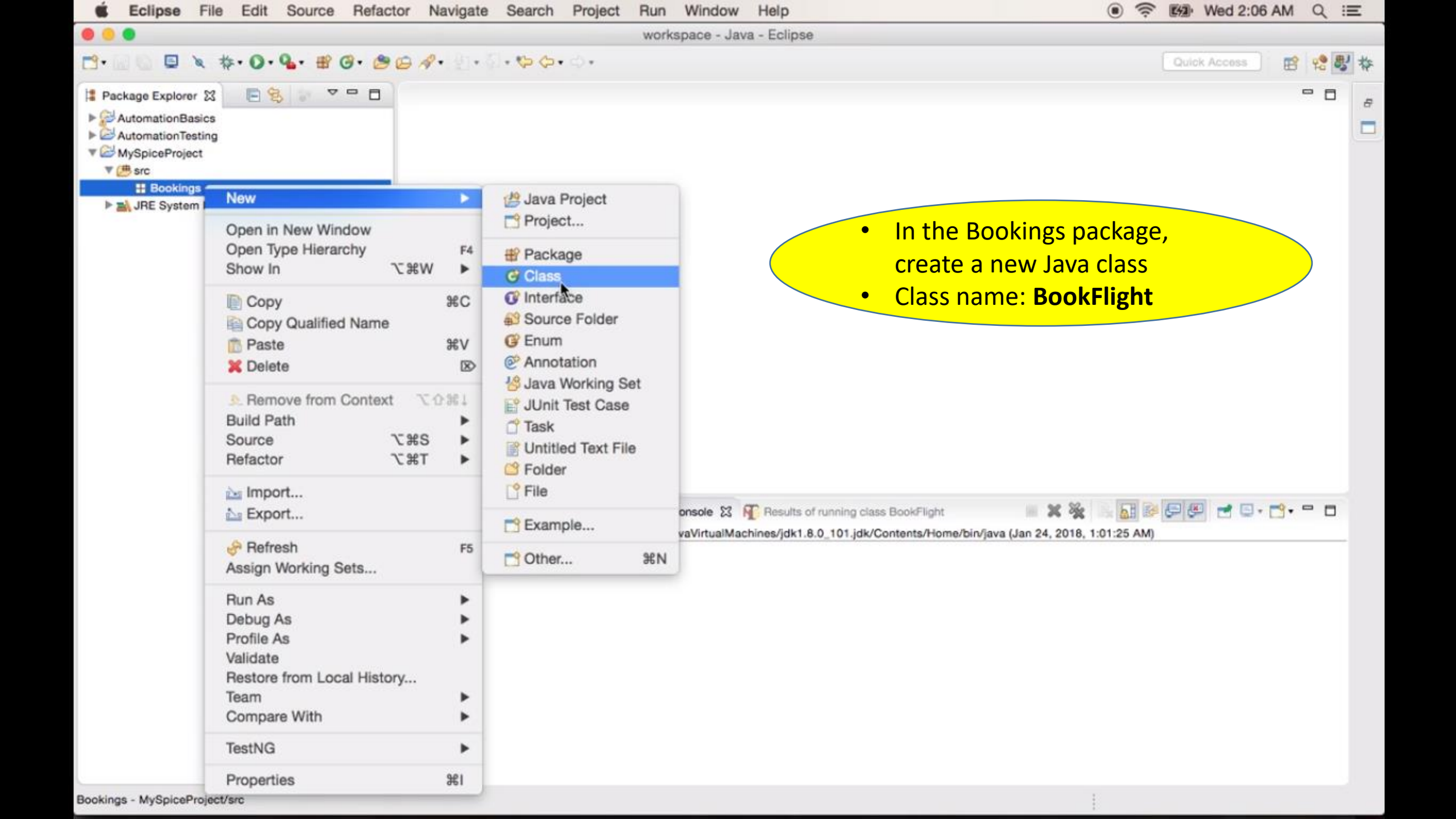

Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:04 AM
Java - Eclipse
Quick Access
Package Explorer
AutomationBa
AutomationTe
New ⌥⌘N
Open File...
Open Projects from File System...
Close ⌘W
Close All ⇧⌘W
Save ⌘S
Save As...
Save All ⇧⌘S
Revert
Move...
Rename... F2
Refresh F5
Convert Line Delimiters To
Print... ⌘P
Switch Workspace
Restart
Import...
Export...
Properties ⌘I
1 testngtests.java [AutomationTesting...]
2 testng.xml [PracTestNG]
3 multitest.java [PracTestNG/src/...]
4 Assert_class.java [PracTestNG/src/...]
Java Project
Project...
Package
Class
Interface
Source Folder
Enum
Annotation
Java Working Set
JUnit Test Case
Task
Untitled Text File
Folder
File
Example...
Other... ⌘N
Create a new Java project
Declaration
Console
Results of running class BookFlight
ght [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 1:01:25 AM)


Eclipse
Wed 2:05 AM
New Java Project
Create a Java Project
Create a Java project in the workspace or in an external location.
Project name: MySpiceProject
Use default location
Location: /Users/supriyabaru/Documents/workspace/MySpiceProject
Browse...
JRE
Use an execution environment JRE: JavaSE-1.8
Use a project specific JRE: Java SE 8 [1.8.0_101]
Use default JRE (currently 'Java SE 8 [1.8.0_101]')
Configure JREs...
Project layout
Use project folder as root for sources and class files
Create separate folders for sources and class files
Configure default...
Working sets
Add project to working sets
New...
Working sets:
Select...
< Back
Next >
Cancel
Finish
Package Explorer
AutomationBasics
AutomationTesting
Quick Access
(Jan 24, 2018, 1:01:25 AM)
Project name: MySpiceProject
Click: Next
Click: Finish

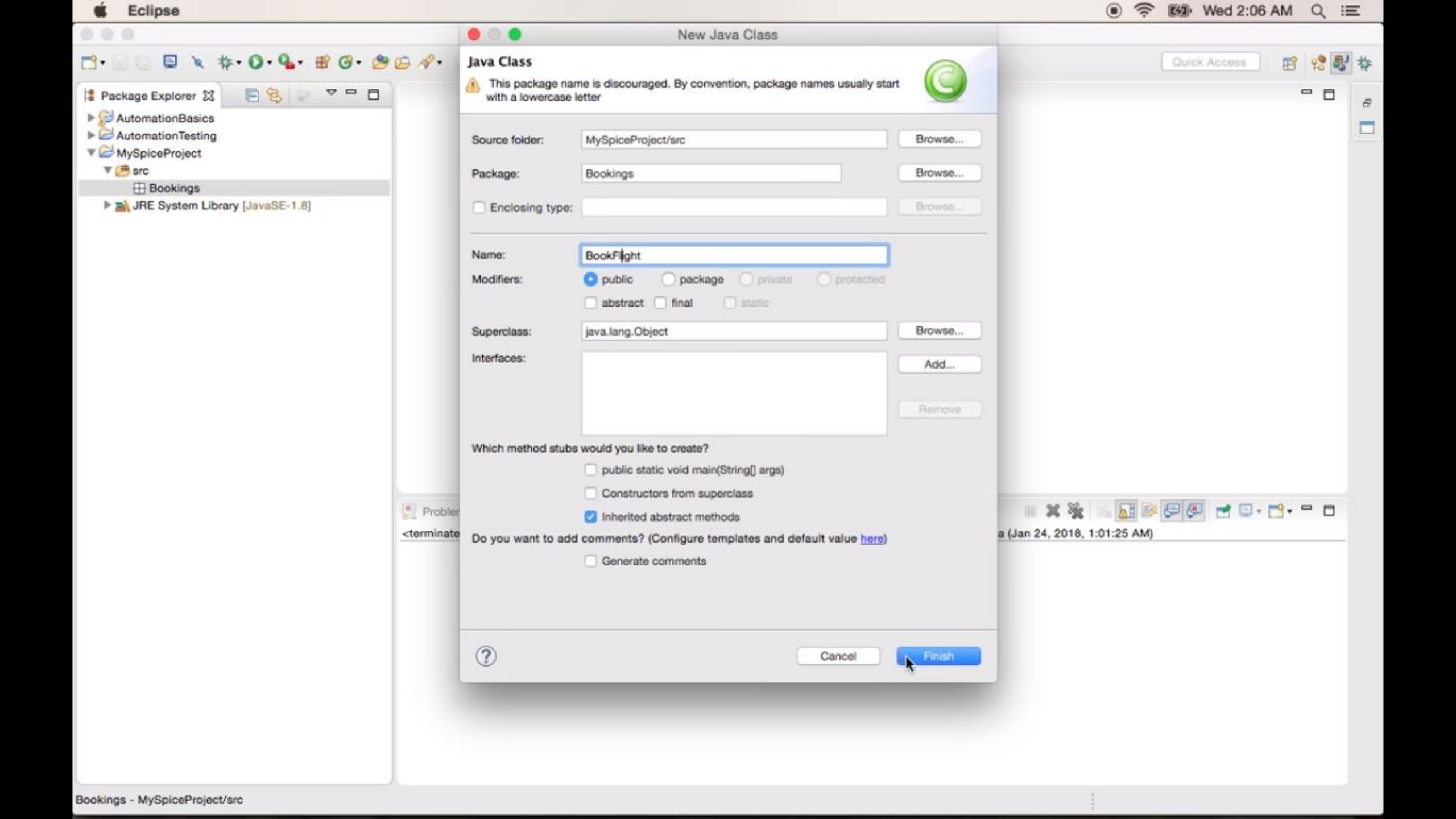

Eclipse
Wed 2:05 AM
New Java Project
Java Settings
Define the Java build settings.
Source
Projects
Libraries
Order and Export
MySpiceProject
src
Details
Create new source folder : use this if you want to add a new source folder to your project.
Link additional source : use this if you have a folder in the file system that should be used as additional source folder.
Add project 'MySpiceProject' to build path : Add the project to the build path if the project is the root of packages and source files. Entries on the build path are visible to the compiler and used for building.
Allow output folders for source folders
Default output folder:
MySpiceProject/bin
Browse...
< Back
Next >
Cancel
Finish
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
Quick Access
(Jan 24, 2018, 1:01:25 AM)

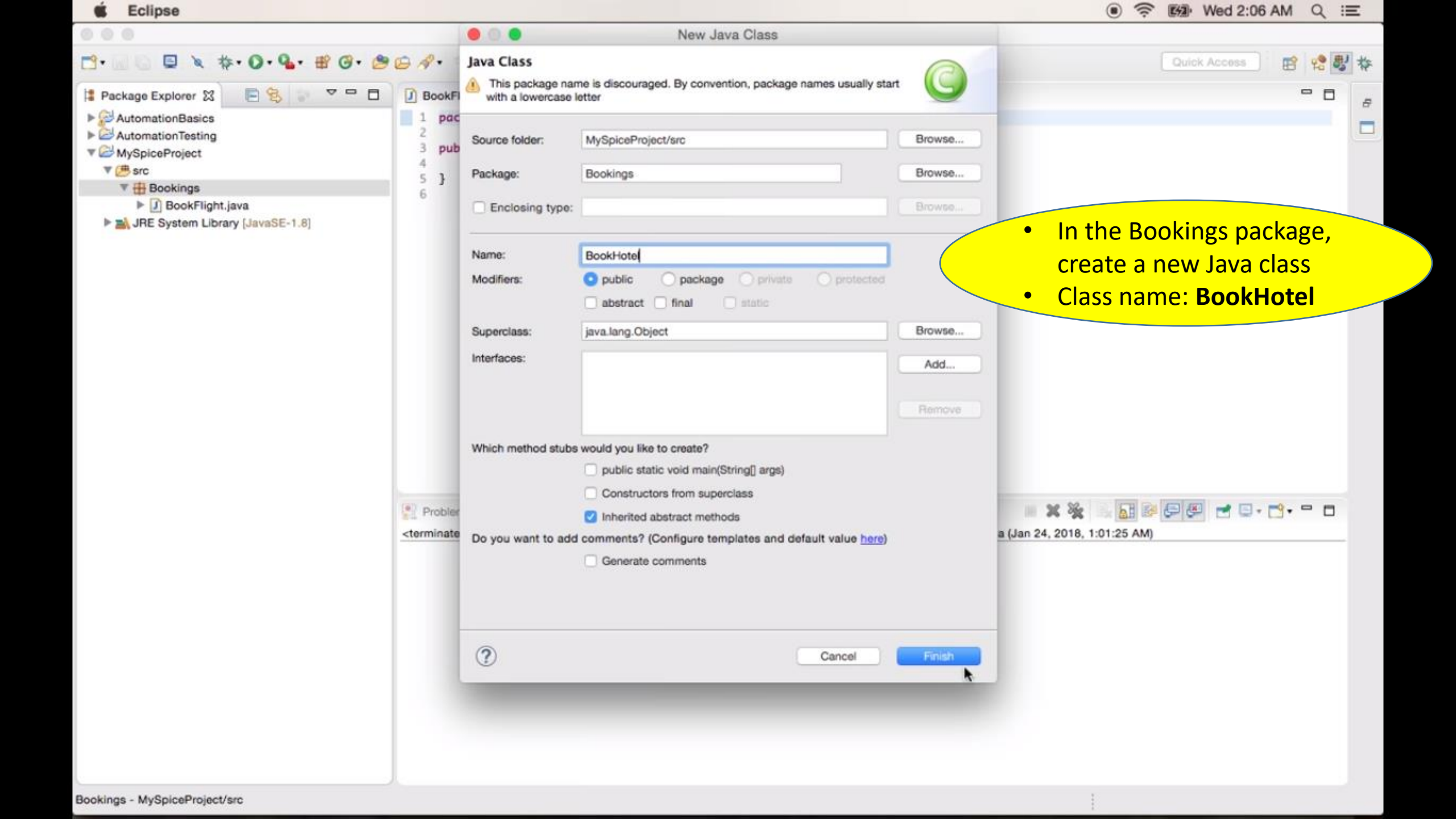

Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:05 AM
workspace - Java - Eclipse
Quick Access
Package Explorer
AutomationBasics
New
Go Into
Open in New Window
Open Type Hierarchy F4
Show In ⌥⌘W
Copy ⌘C
Copy Qualified Name
Paste ⌘V
Delete
Remove from Context ⌥⇧⌘↓
Build Path
Source ⌥⌘S
Refactor ⌥⌘T
Import...
Export...
Refresh F5
Close Project
Close Unrelated Projects
Assign Working Sets...
Run As
Debug As
Profile As
Validate
Restore from Local History...
Team
Compare With
Configure
TestNG
Properties ⌘I
Java Project
Project...
Package
Class
Interface
Source Folder
Enum
Annotation
Java Working Set
JUnit Test Case
Task
Untitled Text File
Folder
File
Example...
Other... ⌘N
Create a new package in the MySpiceProject project
Console
Results of running class BookFlight
terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 1:01:25 AM)

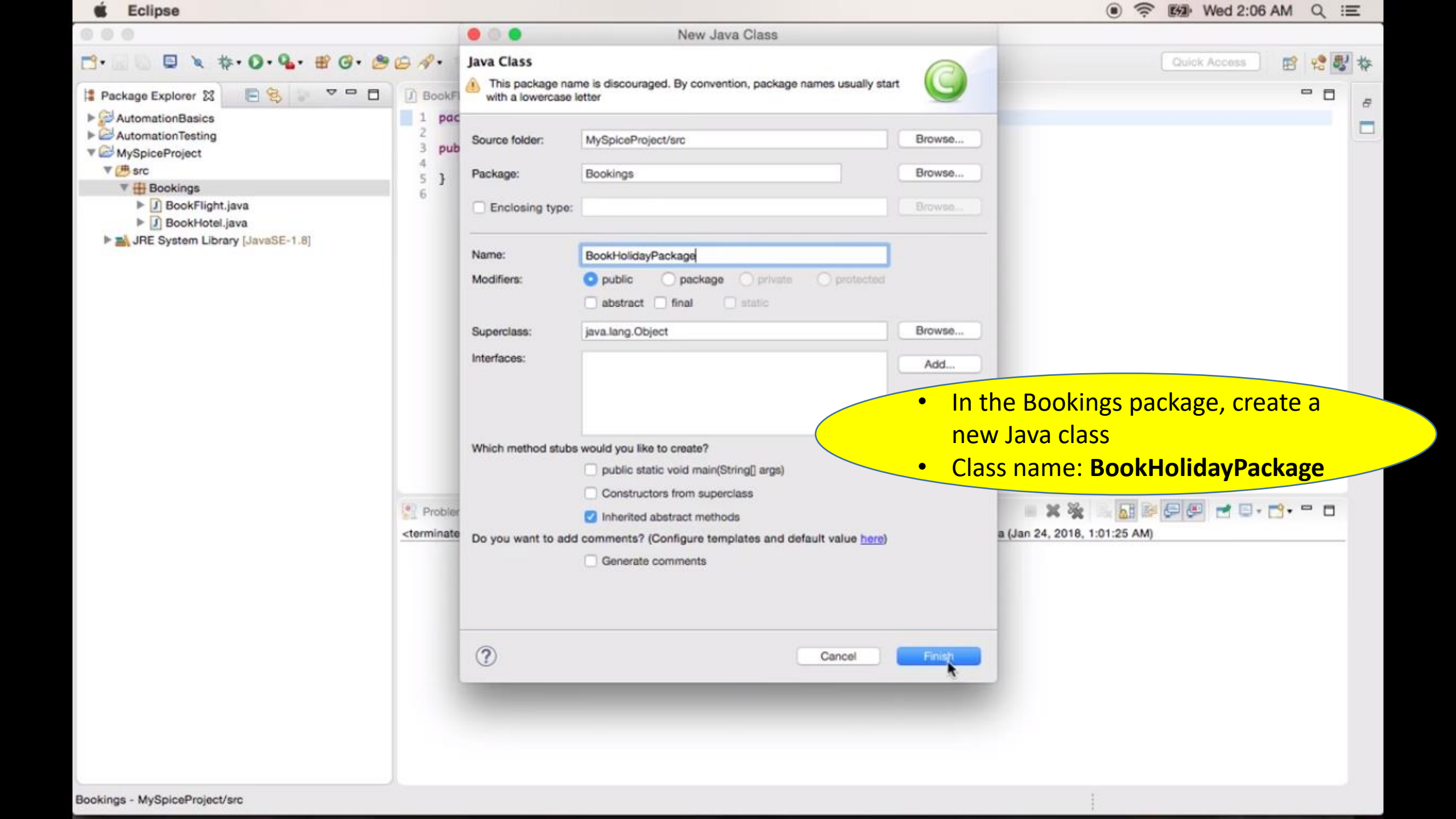

Eclipse
Wed 2:06 AM
workspace - Java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
New Java Package
Java Package
Discouraged package name. By convention, package names usually start with a lowercase letter
Creates folders corresponding to packages.
Source folder: MySpiceProject/src
Browse...
Name: Bookings
Create package-info.java
Cancel
Finish
Package name: Bookings
(Jan 24, 2018, 1:01:25 AM)
MySpiceProject

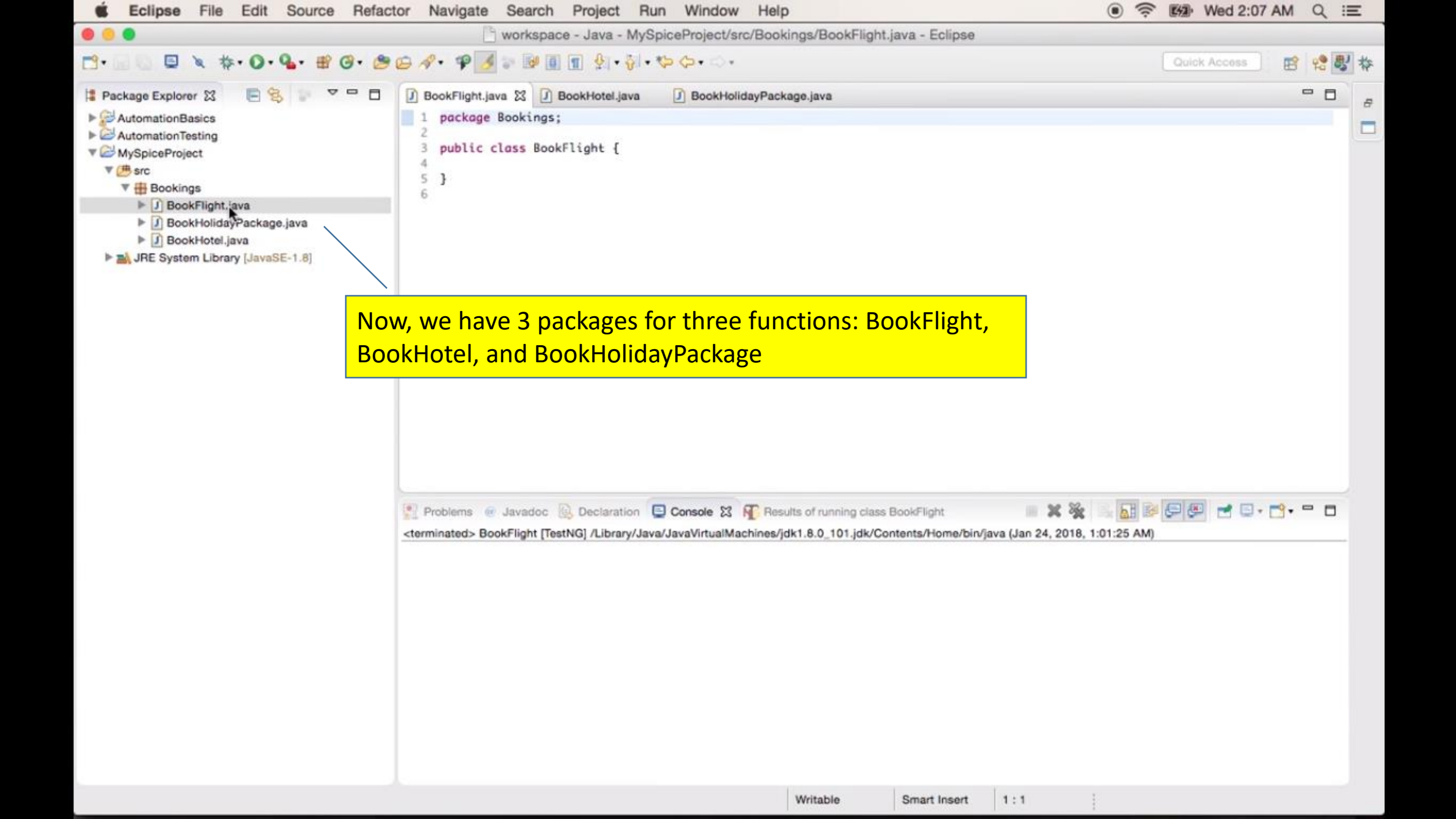


- In the Bookings package, create a new Java class
- Class name: **BookFlight**

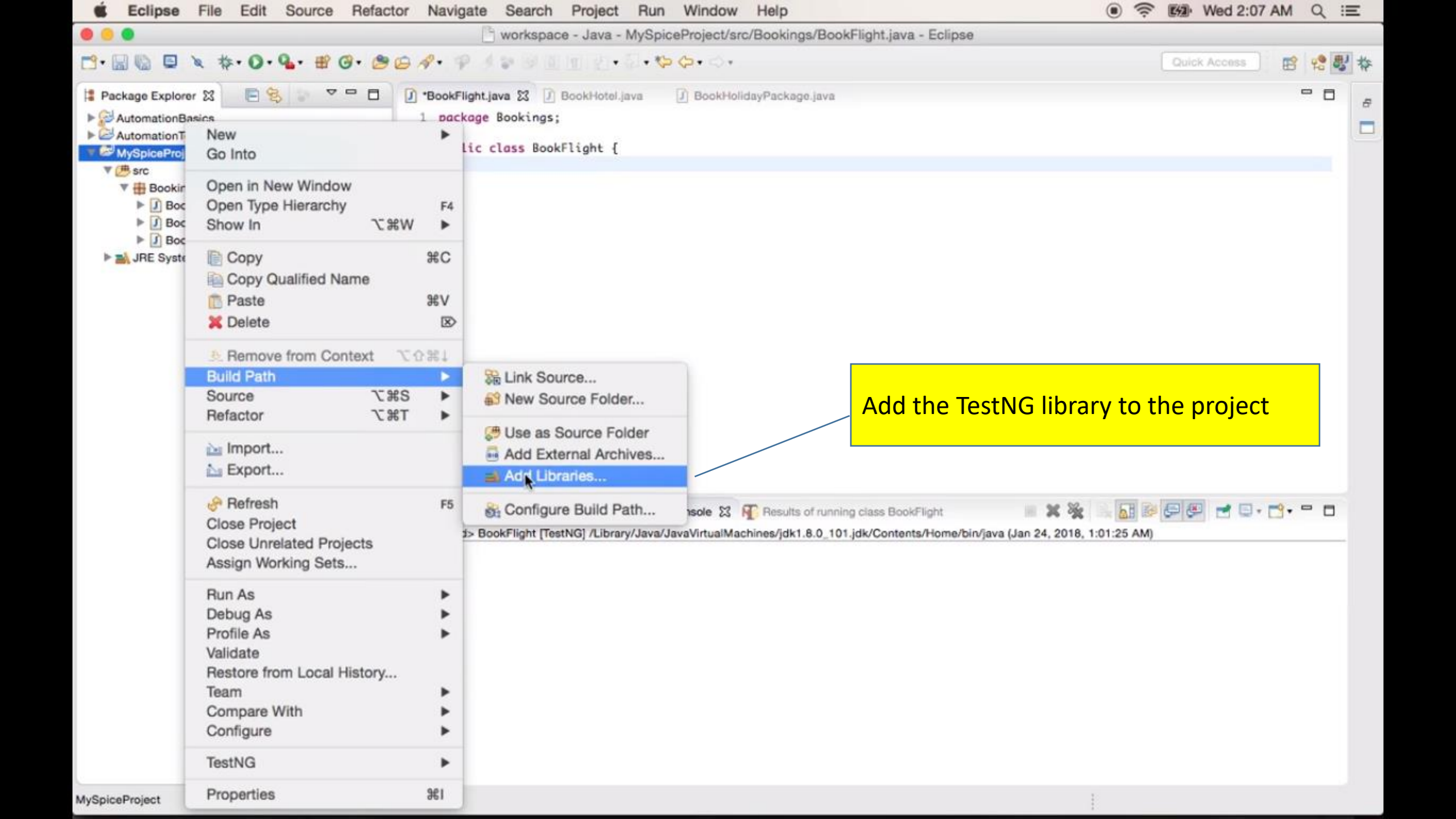

Eclipse
Wed 2:06 AM
New Java Class
Java Class
This package name is discouraged. By convention, package names usually start with a lowercase letter
Source folder: MySpiceProject/src
Package: Bookings
Enclosing type:
Name: BookFight
Modifiers: public package private protected
abstract final static
Superclass: java.lang.Object
Interfaces:
Which method stubs would you like to create?
public static void main(String[] args)
Constructors from superclass
Inherited abstract methods
Do you want to add comments? (Configure templates and default value here)
Generate comments
Browse...
Add...
Remove
Cancel
Finish
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
JRE System Library [JavaSE-1.8]
Quick Access
Bookings - MySpiceProject/src

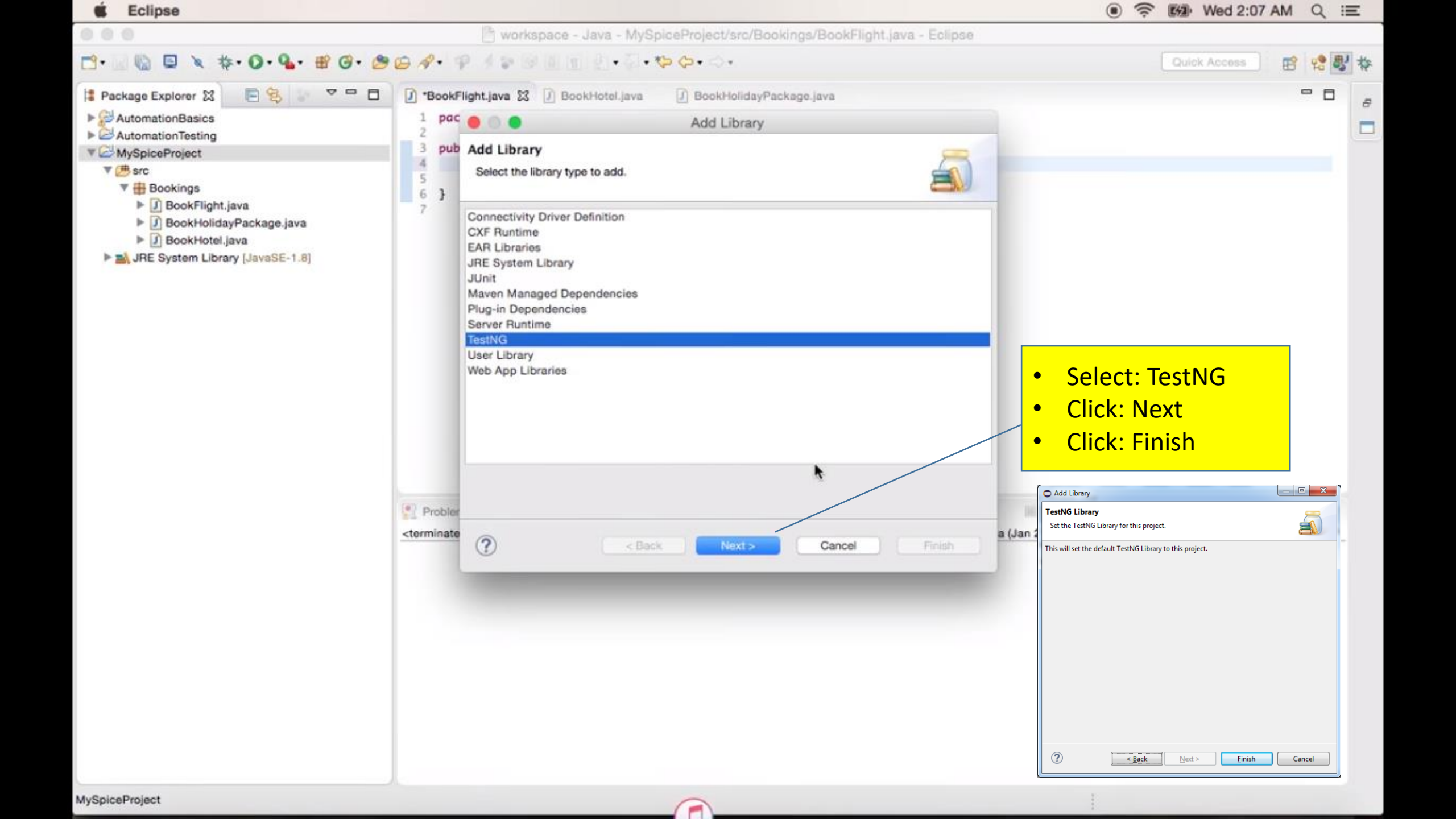

Eclipse
Wed 2:06 AM
New Java Class
Java Class
This package name is discouraged. By convention, package names usually start with a lowercase letter
Source folder: MySpiceProject/src
Package: Bookings
Enclosing type:
Name: BookHotel
Modifiers: public package private protected
abstract final static
Superclass: java.lang.Object
Interfaces:
Which method stubs would you like to create?
public static void main(String[] args)
Constructors from superclass
Inherited abstract methods
Do you want to add comments? (Configure templates and default value here)
Generate comments
Browse...
Add...
Remove
Cancel
Finish
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
JRE System Library [JavaSE-1.8]
Quick Access
Bookings - MySpiceProject/src
In the Bookings package, create a new Java class
Class name: BookHotel

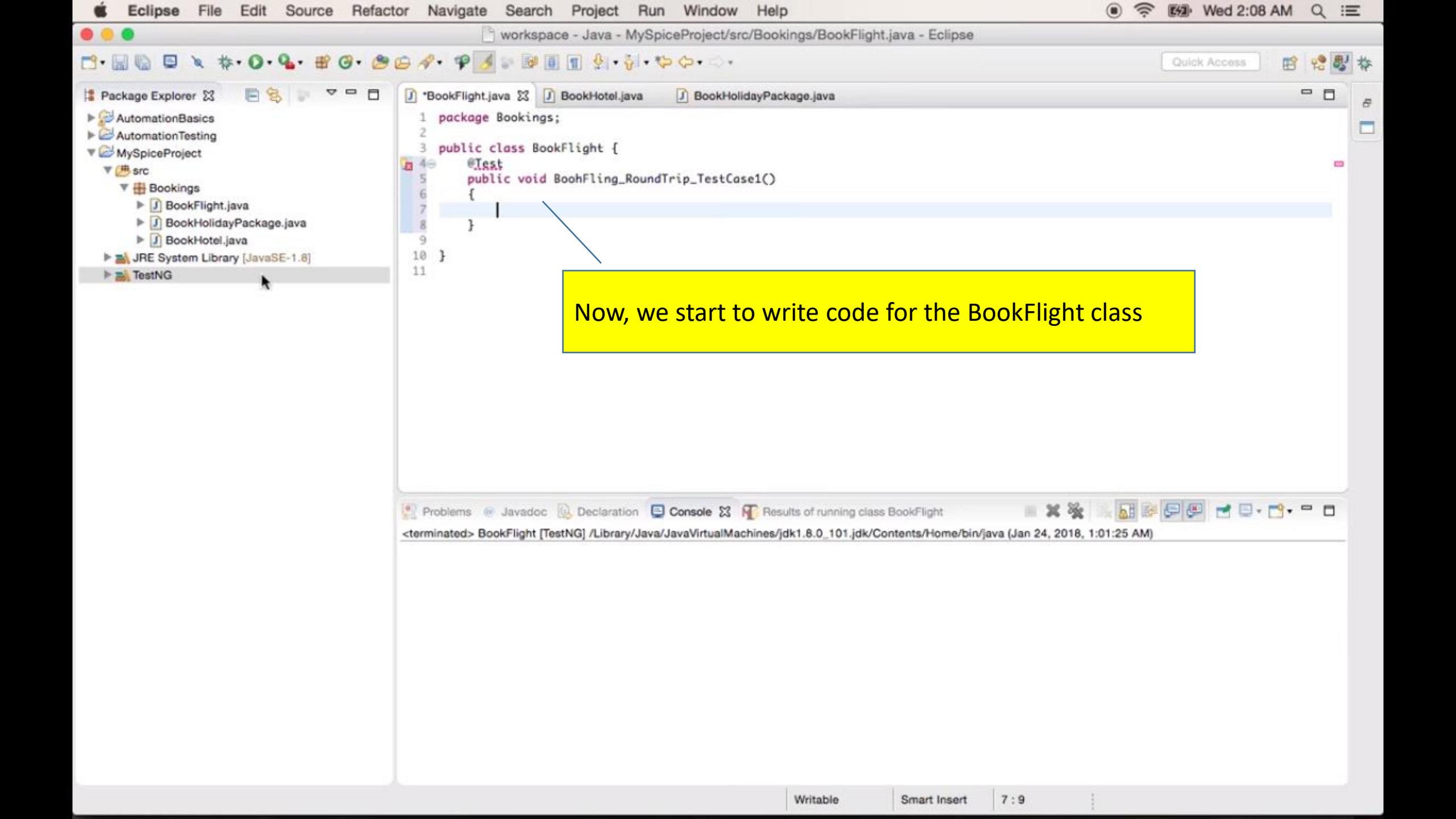

Eclipse
Wed 2:06 AM
New Java Class
Java Class
This package name is discouraged. By convention, package names usually start with a lowercase letter
Source folder: MySpiceProject/src
Package: Bookings
Enclosing type:
Name: BookHolidayPackage
Modifiers: public package private protected
abstract final static
Superclass: java.lang.Object
Interfaces:
Which method stubs would you like to create?
public static void main(String[] args)
Constructors from superclass
Inherited abstract methods
Do you want to add comments? (Configure templates and default value here)
Generate comments
Browse...
Add...
Cancel
Finish
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHotel.java
JRE System Library [JavaSE-1.8]
Quick Access
Bookings - MySpiceProject/src
• In the Bookings package, create a new Java class
• Class name: **BookHolidayPackage**


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:07 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 public class BookFlight {
4
5 }
6
Problems
Javadoc
Declaration
Console
Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 1:01:25 AM)
Writable
Smart Insert
1 : 1
Now, we have 3 packages for three functions: BookFlight, BookHotel, and BookHolidayPackage

- Now we start to write code for classes
- At first, we need to add the TestNG library to the project


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:07 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
lic class BookFlight {
New
Go Into
Open in New Window
Open Type Hierarchy F4
Show In ⌥⌘W
Copy ⌘C
Copy Qualified Name
Paste ⌘V
Delete
Remove from Context ⌥⇧⌘↓
Build Path
Source ⌥⌘S
Refactor ⌥⌘T
Import...
Export...
Refresh F5
Close Project
Close Unrelated Projects
Assign Working Sets...
Run As
Debug As
Profile As
Validate
Restore from Local History...
Team
Compare With
Configure
TestNG
Properties ⌘I
Link Source...
New Source Folder...
Use as Source Folder
Add External Archives...
Add Libraries...
Configure Build Path...
Results of running class BookFlight
> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 1:01:25 AM)
MySpiceProject
Add the TestNG library to the project


Eclipse
Wed 2:07 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
Add Library
Add Library
Select the library type to add.
Connectivity Driver Definition
CXF Runtime
EAR Libraries
JRE System Library
JUnit
Maven Managed Dependencies
Plug-in Dependencies
Server Runtime
TestNG
User Library
Web App Libraries
< Back
Next >
Cancel
Finish
Select: TestNG
Click: Next
Click: Finish
Add Library
TestNG Library
Set the TestNG Library for this project.
This will set the default TestNG Library to this project.
< Back
Next >
Finish
Cancel
MySpiceProject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Wed 2:08 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 public class BookFlight {
4 @Test
5 public void BoohFling_RoundTrip_TestCase1()
6 {
7
8 }
9
10 }
11
Now, we start to write code for the BookFlight class
Problems
Javadoc
Declaration
Console
Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 1:01:25 AM)
Writable
Smart Insert
7 : 9

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Flights | Hotels | Holiday Packages | Flight Status | Check-In | Manage Booking

BookFlight has:
- RoundTrip
- One Way

Round Trip | One Way

*FROM	*TO	*DEPART DATE	RETURN DATE	ADULT	CHILD	INFANT	CURRENCY
Departure City	Arrival City	23/01 Tue, Jan 23 2018	30/01 Tue, Jan 30 2018	1	0	0	Select

SEARCH

Unaccompanied Minor | Family and Friends | Student | Indian Armed Forces | Senior Citizen

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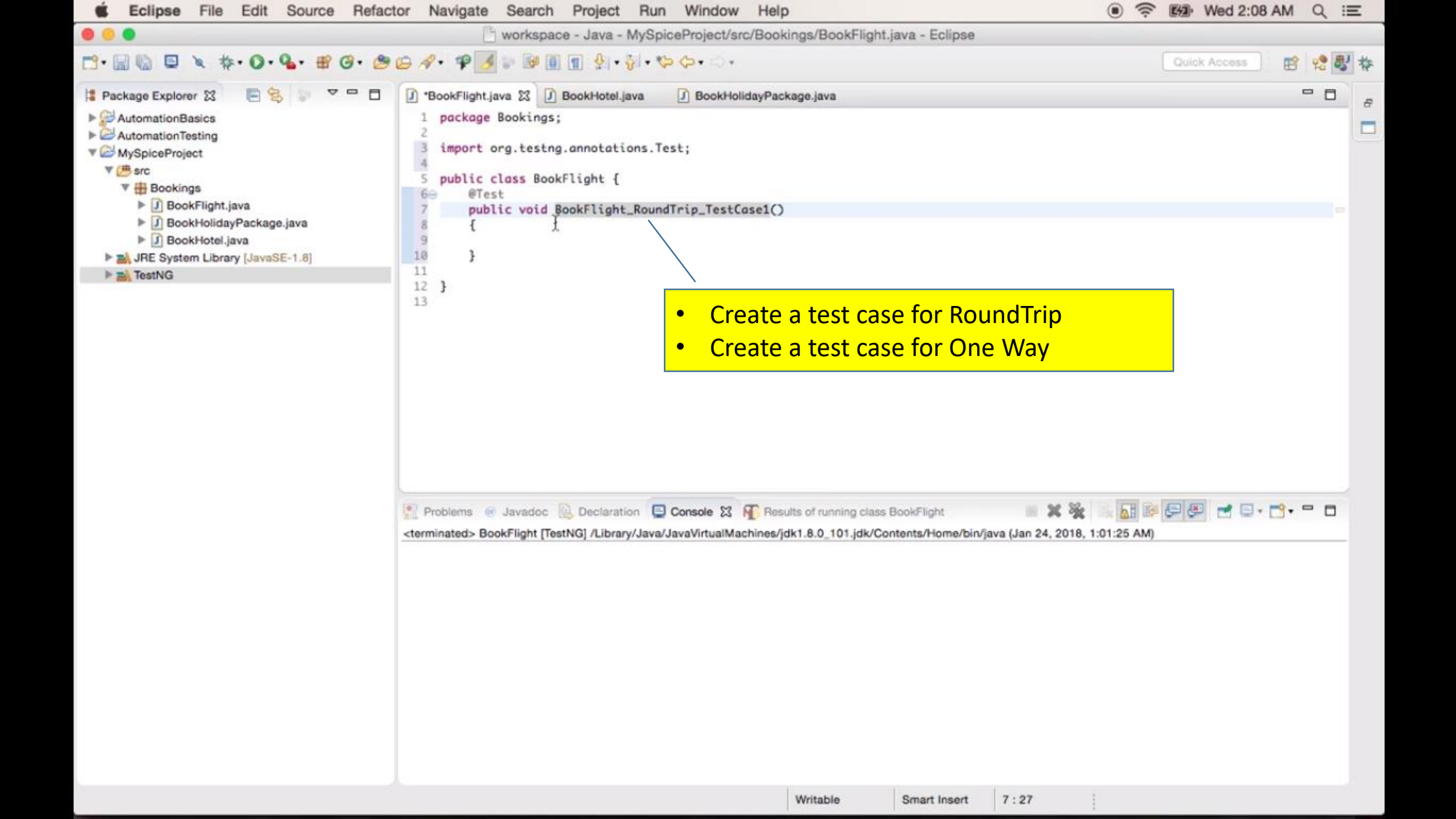
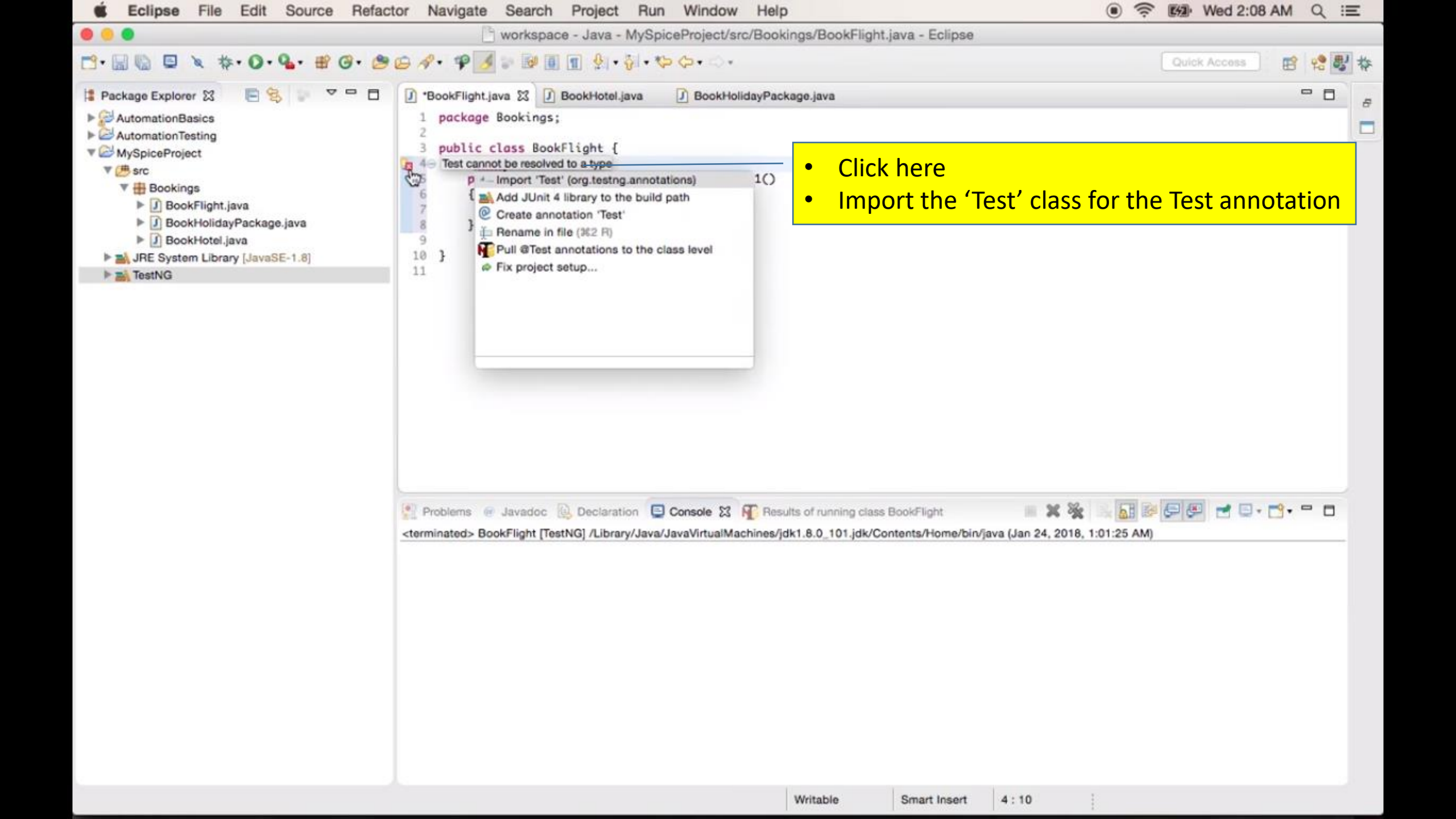

Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:08 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 import org.testng.annotations.Test;
4
5 public class BookFlight {
6 @Test
7 public void BookFlight_RoundTrip_TestCase1()
8 {
9
10 }
11
12 }
13
• Create a test case for RoundTrip
• Create a test case for One Way
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 1:01:25 AM)
Writable
Smart Insert
7 : 27


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:08 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 public class BookFlight {
4 Test cannot be resolved to a type
Import 'Test' (org.testng.annotations)
Add JUnit 4 library to the build path
Create annotation 'Test'
Rename in file (⌘2 R)
Pull @Test annotations to the class level
Fix project setup...
10 }
11
Problems
Javadoc
Declaration
Console
Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 1:01:25 AM)
Writable
Smart Insert
4 : 10
• Click here
• Import the ‘Test’ class for the Test annotation

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Round Trip | One Way

*FROM	*TO	*DEPART DATE	RETURN DATE	ADULT	CHILD	INFANT	CURRENCY
Departure City	Arrival City	23/01 Tue, Jan 23 2018	30/01 Tue, Jan 30 2018	1	0	0	Select

SEARCH

Unaccompanied Minor | Family and Friends | Student | Indian Armed Forces | Senior Citizen

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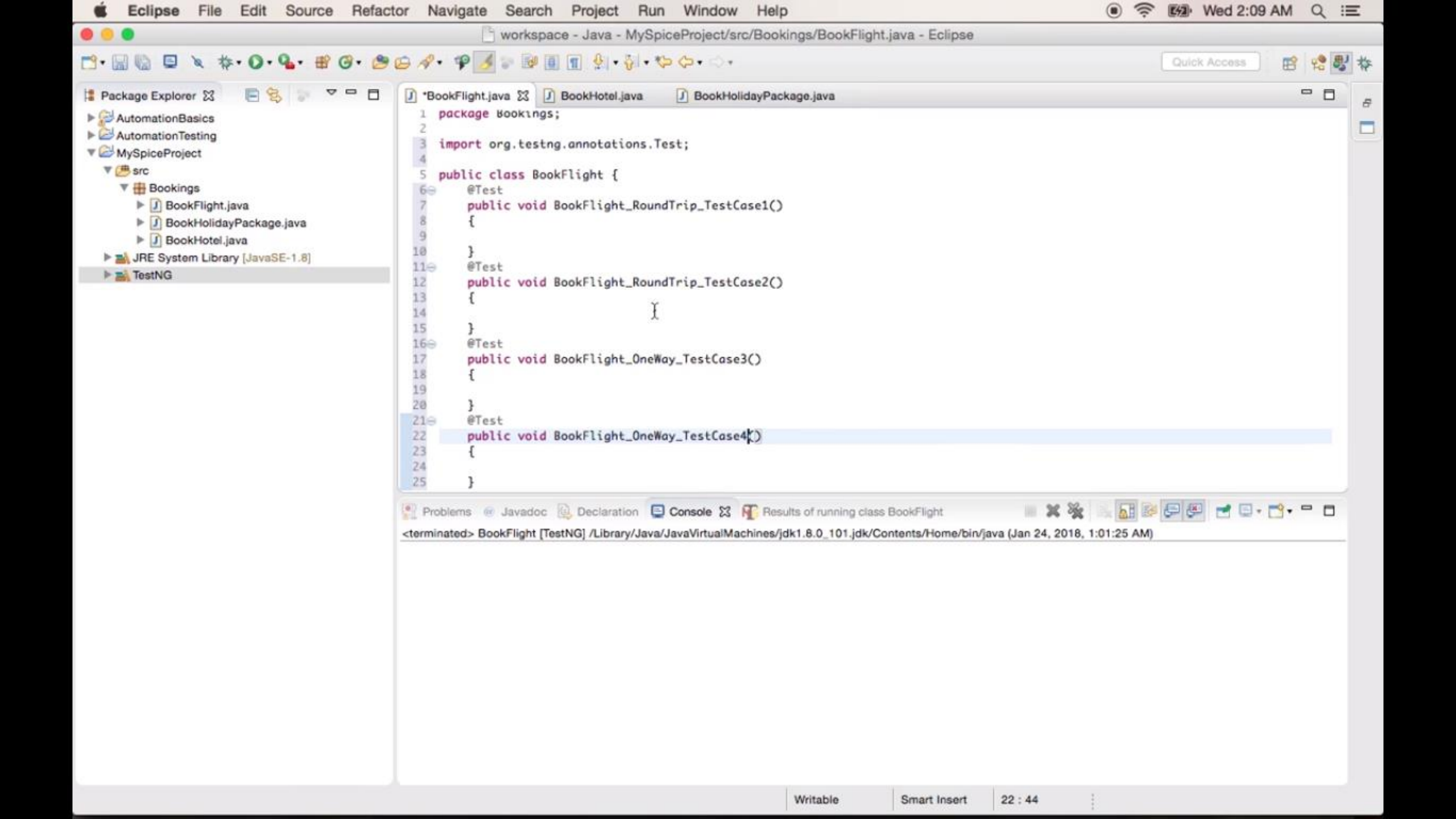
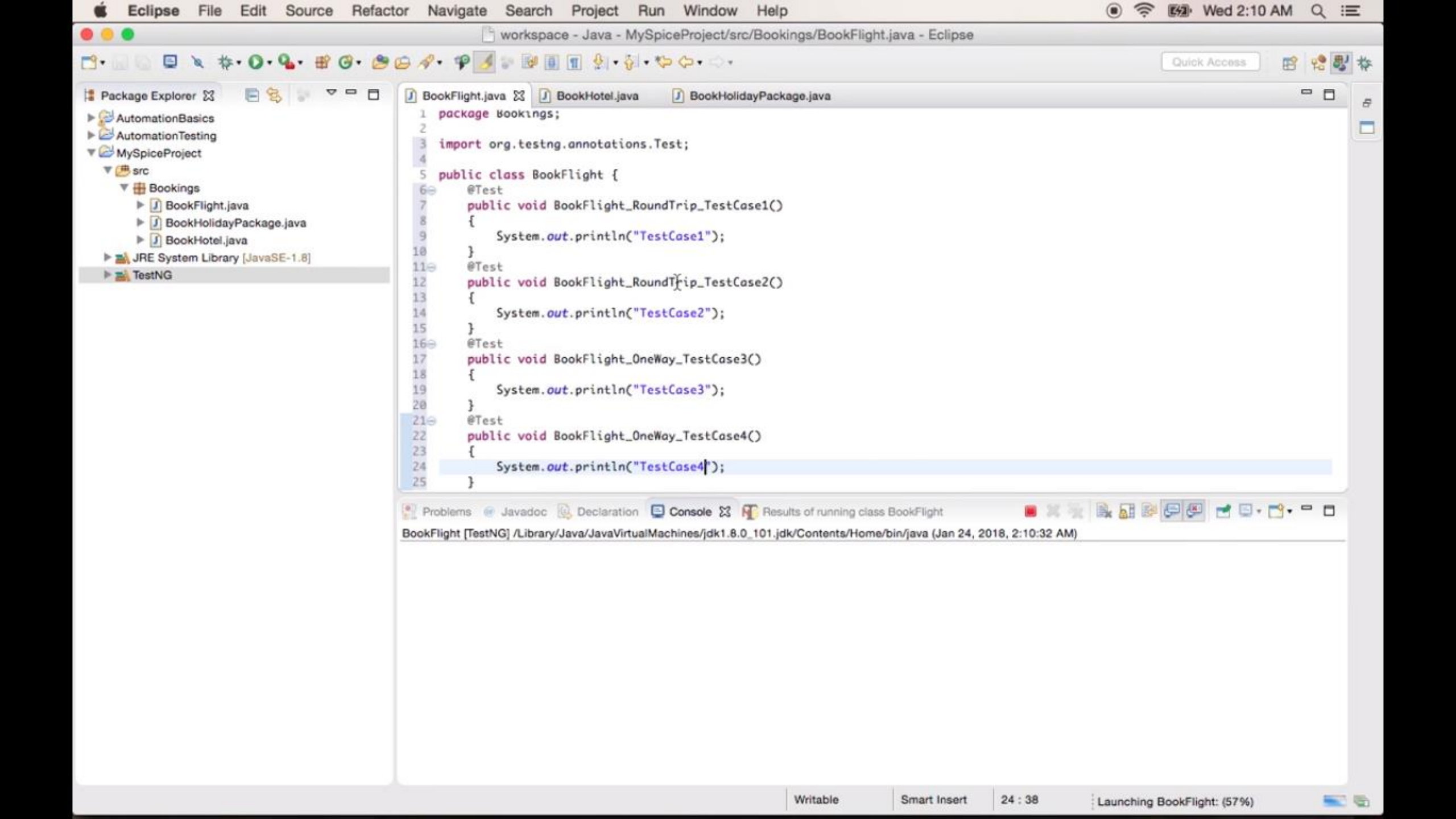
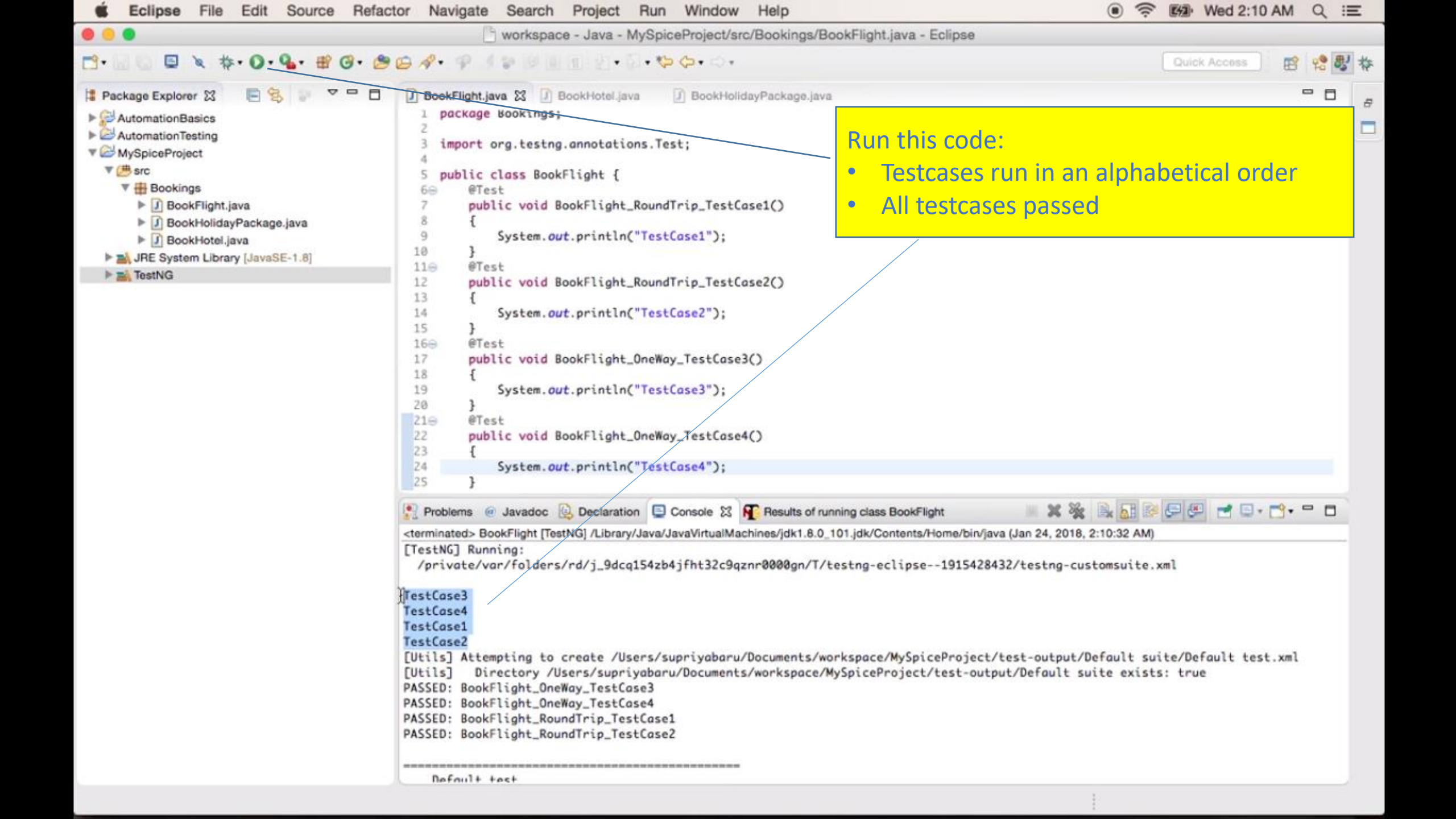
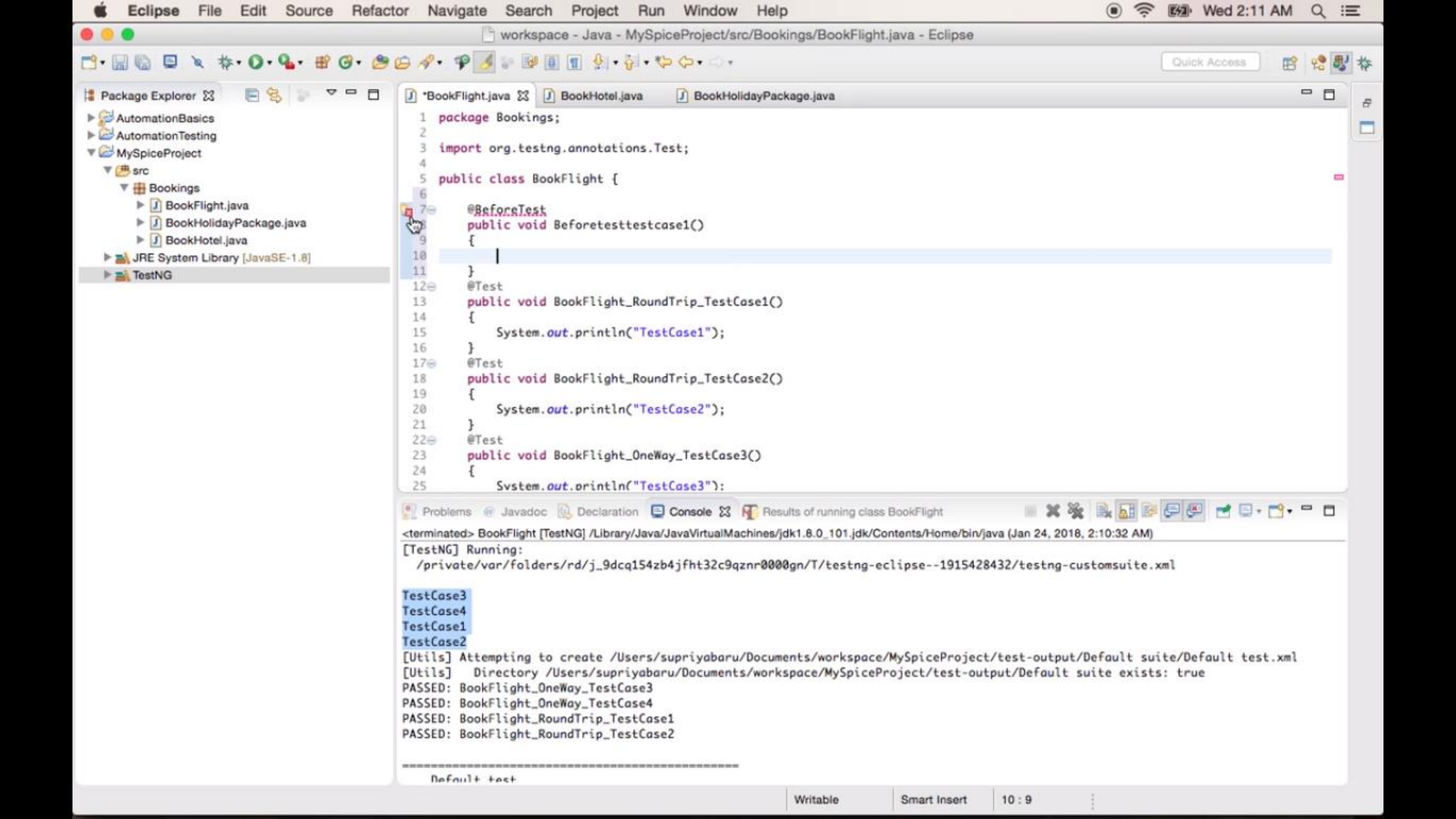

Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:09 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 import org.testng.annotations.Test;
4
5 public class BookFlight {
6 @Test
7 public void BookFlight_RoundTrip_TestCase1()
8 {
9
10 }
11 @Test
12 public void BookFlight_RoundTrip_TestCase2()
13 {
14
15 }
16 @Test
17 public void BookFlight_OneWay_TestCase3()
18 {
19
20 }
21 @Test
22 public void BookFlight_OneWay_TestCase4()
23 {
24
25 }
Problems
Javadoc
Declaration
Console
Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 1:01:25 AM)
Writable
Smart Insert
22 : 44


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:10 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 import org.testng.annotations.Test;
4
5 public class BookFlight {
6 @Test
7 public void BookFlight_RoundTrip_TestCase1()
8 {
9 System.out.println("TestCase1");
10 }
11 @Test
12 public void BookFlight_RoundTrip_TestCase2()
13 {
14 System.out.println("TestCase2");
15 }
16 @Test
17 public void BookFlight_OneWay_TestCase3()
18 {
19 System.out.println("TestCase3");
20 }
21 @Test
22 public void BookFlight_OneWay_TestCase4()
23 {
24 System.out.println("TestCase4");
25 }
Problems
Javadoc
Declaration
Console
Results of running class BookFlight
BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:10:32 AM)
Writable
Smart Insert
24 : 38
Launching BookFlight: (57%)


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:10 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 import org.testng.annotations.Test;
4
5 public class BookFlight {
6 @Test
7 public void BookFlight_RoundTrip_TestCase1()
8 {
9 System.out.println("TestCase1");
10 }
11 @Test
12 public void BookFlight_RoundTrip_TestCase2()
13 {
14 System.out.println("TestCase2");
15 }
16 @Test
17 public void BookFlight_OneWay_TestCase3()
18 {
19 System.out.println("TestCase3");
20 }
21 @Test
22 public void BookFlight_OneWay_TestCase4()
23 {
24 System.out.println("TestCase4");
25 }
Run this code:
• Testcases run in an alphabetical order
• All testcases passed
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:10:32 AM)
[TestNG] Running:
/private/var/folders/rd/j_9dcq154zb4jfht32c9qznr0000gn/T/testng-eclipse--1915428432/testng-customsuite.xml
TestCase3
TestCase4
TestCase1
TestCase2
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_OneWay_TestCase3
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
Default test

Doing something before/after all tests

- BeforeTest
- AfterTest


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:11 AM
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BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 import org.testng.annotations.Test;
4
5 public class BookFlight {
6
7 @BeforeTest
8 public void Beforetesttestcase1()
9 {
10
11 }
12 @Test
13 public void BookFlight_RoundTrip_TestCase1()
14 {
15 System.out.println("TestCase1");
16 }
17 @Test
18 public void BookFlight_RoundTrip_TestCase2()
19 {
20 System.out.println("TestCase2");
21 }
22 @Test
23 public void BookFlight_OneWay_TestCase3()
24 {
25 System.out.println("TestCase3");
Problems
Javadoc
Declaration
Console
Results of running class BookFlight
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TestCase3
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TestCase2
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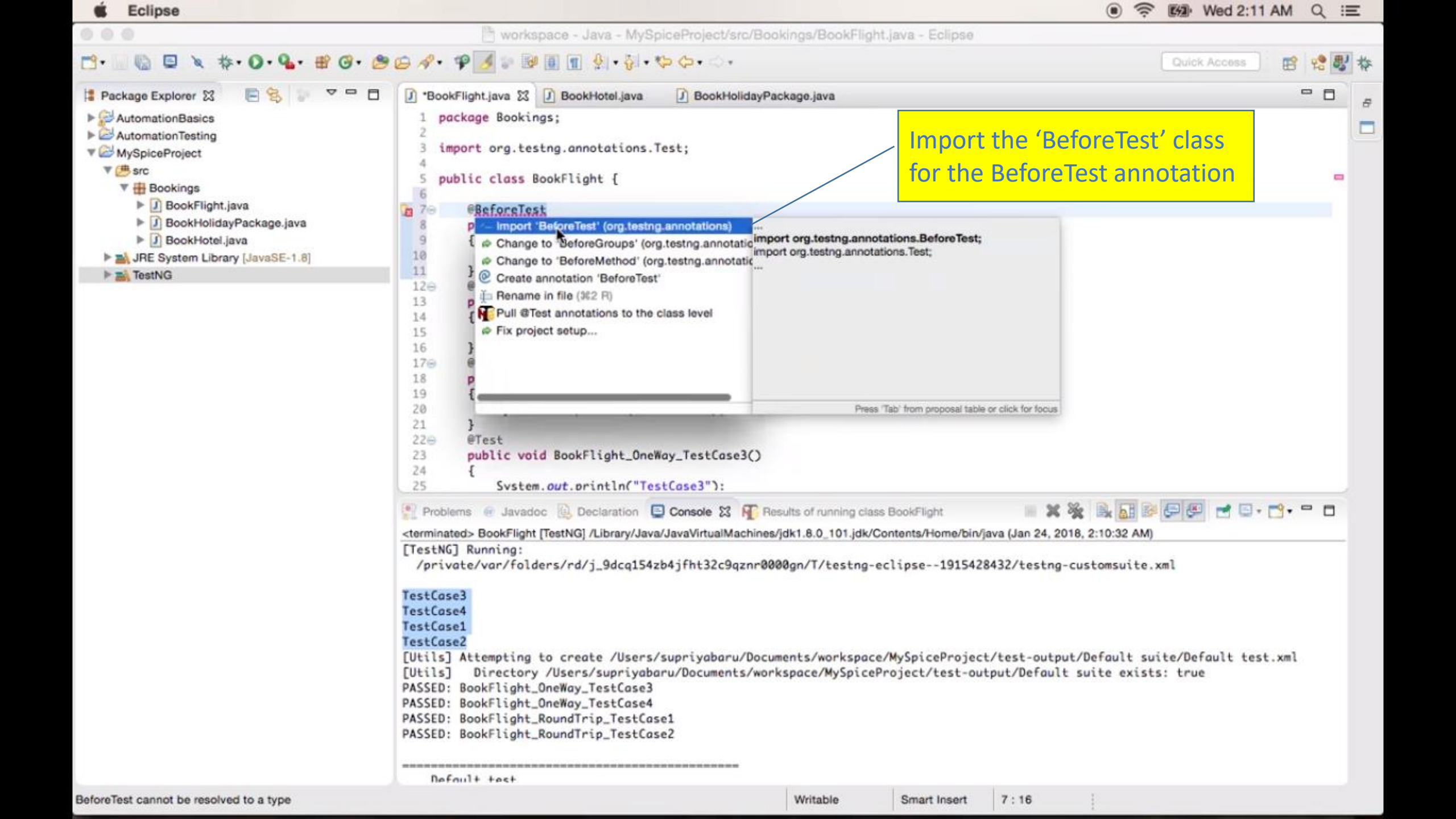
PASSED: BookFlight_OneWay_TestCase3
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
Default test
Writable
Smart Insert
10 : 9


Eclipse
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TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
3 import org.testng.annotations.Test;
5 public class BookFlight {
7 @BeforeTest
Import the 'BeforeTest' class for the BeforeTest annotation
Import 'BeforeTest' (org.testng.annotations)
Change to 'BeforeGroups' (org.testng.annotatio
Change to 'BeforeMethod' (org.testng.annotatio
Create annotation 'BeforeTest'
Rename in file (⌘2 R)
Pull @Test annotations to the class level
Fix project setup...
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
Press 'Tab' from proposal table or click for focus
22 @Test
23 public void BookFlight_OneWay_TestCase3()
24 {
25 System.out.println("TestCase3");
Problems
Javadoc
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Console
Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:10:32 AM)
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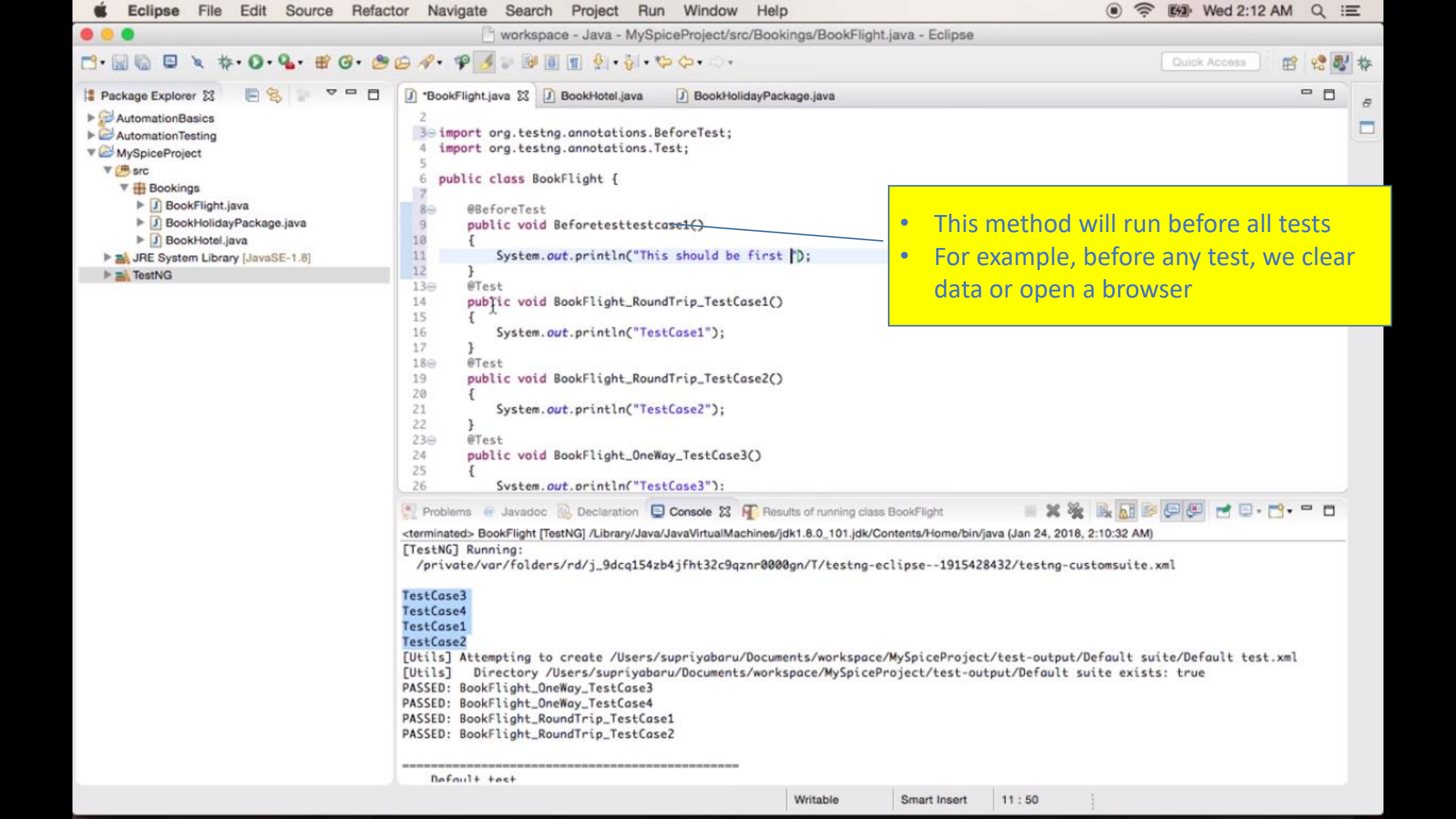
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_OneWay_TestCase3
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
Default test
BeforeTest cannot be resolved to a type
Writable
Smart Insert
7 : 16


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:12 AM
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BookHotel.java
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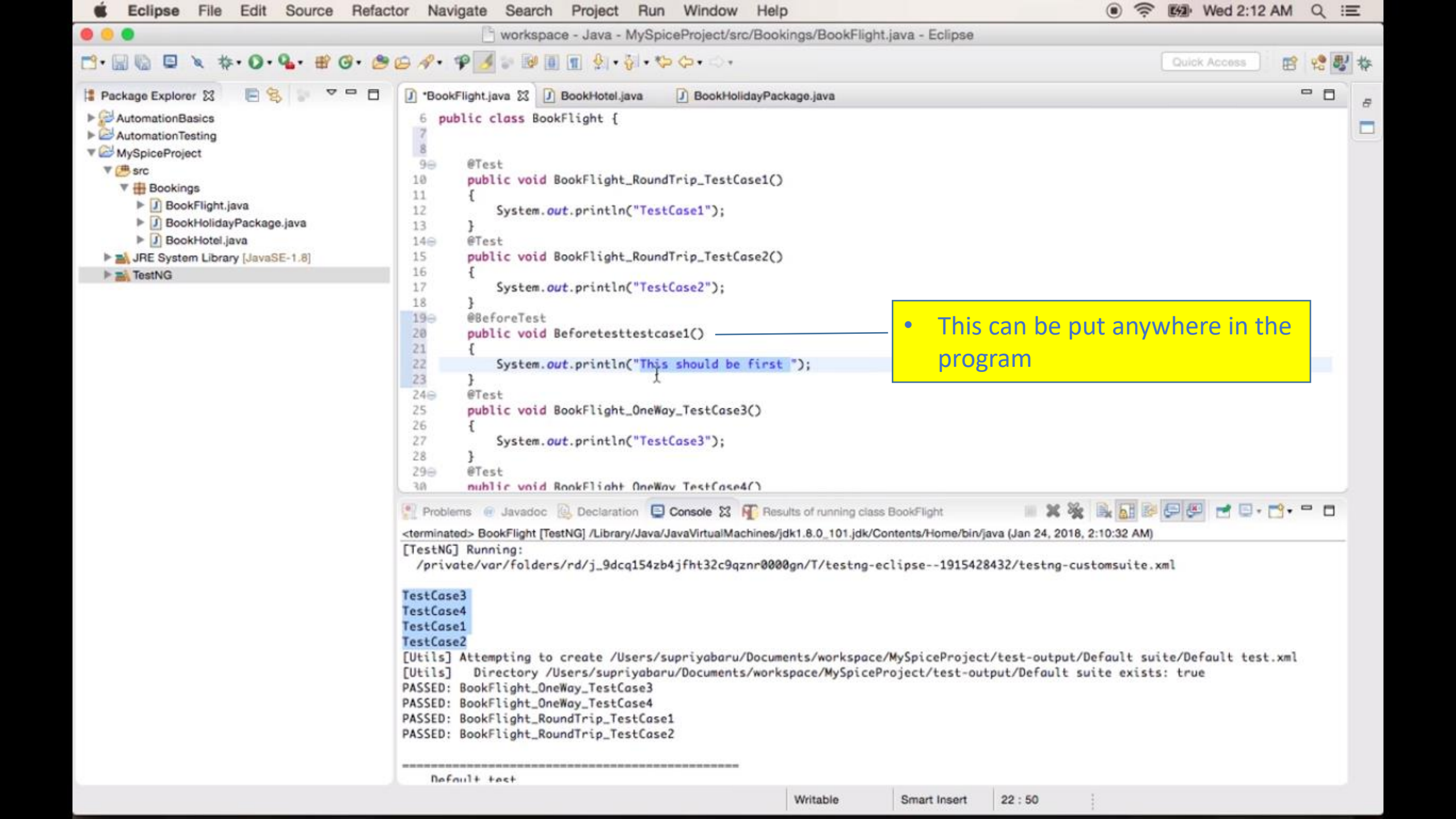
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
2
3 import org.testng.annotations.BeforeTest;
4 import org.testng.annotations.Test;
5
6 public class BookFlight {
7
8 @BeforeTest
9 public void Beforetesttestcase1()
10 {
11 System.out.println("This should be first);
12 }
13 @Test
14 public void BookFlight_RoundTrip_TestCase1()
15 {
16 System.out.println("TestCase1");
17 }
18 @Test
19 public void BookFlight_RoundTrip_TestCase2()
20 {
21 System.out.println("TestCase2");
22 }
23 @Test
24 public void BookFlight_OneWay_TestCase3()
25 {
26 System.out.println("TestCase3");
This method will run before all tests
For example, before any test, we clear data or open a browser
Problems
Javadoc
Declaration
Console
Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:10:32 AM)
[TestNG] Running:
/private/var/folders/rd/j_9dcq154zb4jfht32c9qznr0000gn/T/testng-eclipse--1915428432/testng-customsuite.xml
TestCase3
TestCase4
TestCase1
TestCase2
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_OneWay_TestCase3
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
Default test
Writable
Smart Insert
11 : 50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BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
6 public class BookFlight {
7
8
9 @Test
10 public void BookFlight_RoundTrip_TestCase1()
11 {
12 System.out.println("TestCase1");
13 }
14 @Test
15 public void BookFlight_RoundTrip_TestCase2()
16 {
17 System.out.println("TestCase2");
18 }
19 @BeforeTest
20 public void Beforetesttestcase1()
21 {
22 System.out.println("This should be first ");
23 }
24 @Test
25 public void BookFlight_OneWay_TestCase3()
26 {
27 System.out.println("TestCase3");
28 }
29 @Test
• This can be put anywhere in the program
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:10:32 AM)
[TestNG] Running:
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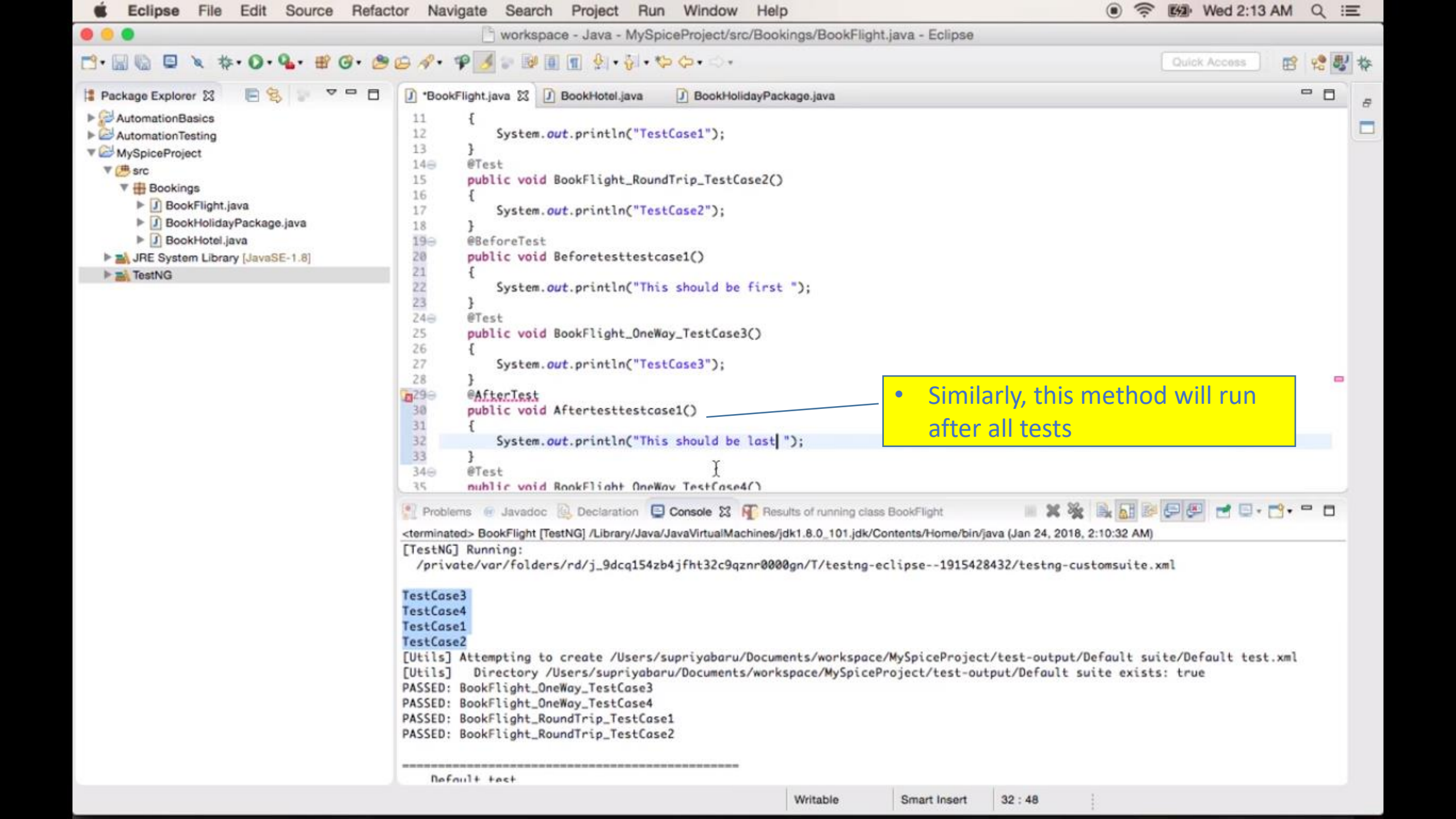
TestCase3
TestCase4
TestCase1
TestCase2
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_OneWay_TestCase3
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
Default test
Writable
Smart Insert
22 : 50


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:13 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
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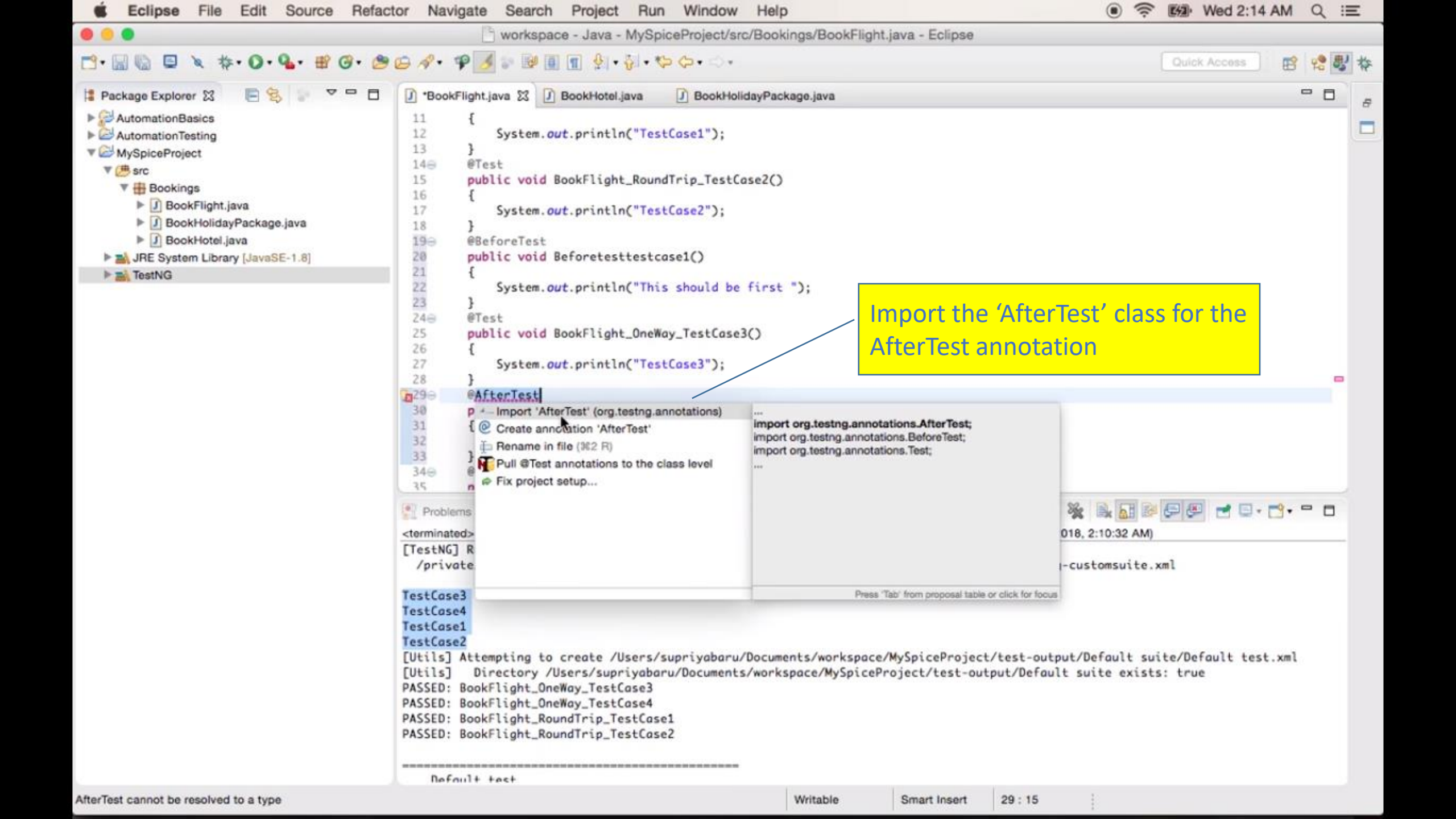
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
{
System.out.println("TestCase1");
}
@Test
public void BookFlight_RoundTrip_TestCase2()
{
System.out.println("TestCase2");
}
@BeforeTest
public void Beforetesttestcase1()
{
System.out.println("This should be first ");
}
@Test
public void BookFlight_OneWay_TestCase3()
{
System.out.println("TestCase3");
}
@AfterTest
public void Aftertesttestcase1()
{
System.out.println("This should be last ");
}
@Test
public void BookFlight_OneWay_TestCase4()
Similarly, this method will run after all tests
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:10:32 AM)
[TestNG] Running:
/private/var/folders/rd/j_9dcq154zb4jfht32c9qznr0000gn/T/testng-eclipse--1915428432/testng-customsuite.xml
TestCase3
TestCase4
TestCase1
TestCase2
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_OneWay_TestCase3
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
Default test
Writable
Smart Insert
32 : 48


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:14 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
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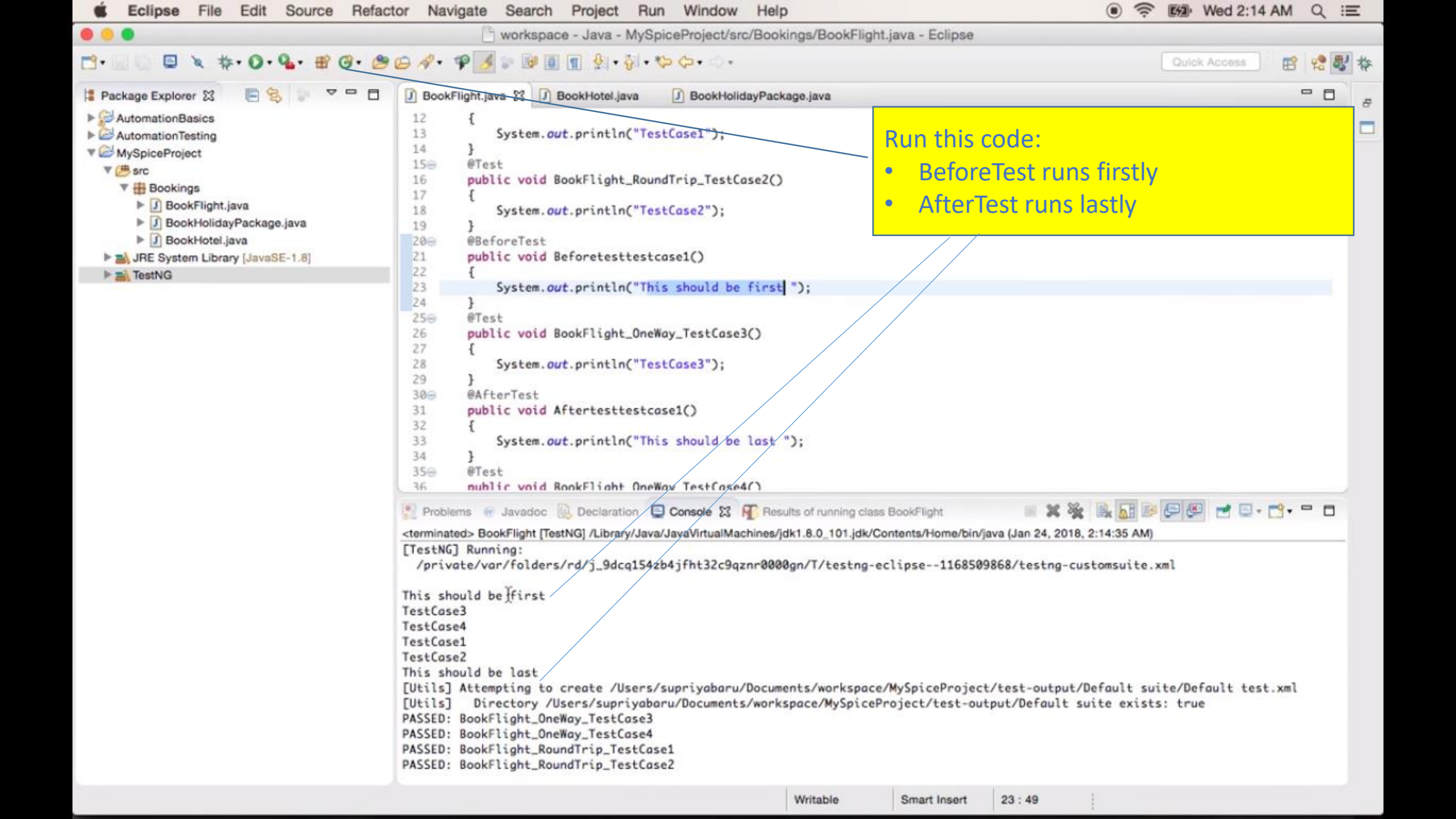
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
11 {
12 System.out.println("TestCase1");
13 }
14 @Test
15 public void BookFlight_RoundTrip_TestCase2()
16 {
17 System.out.println("TestCase2");
18 }
19 @BeforeTest
20 public void Beforetesttestcase1()
21 {
22 System.out.println("This should be first ");
23 }
24 @Test
25 public void BookFlight_OneWay_TestCase3()
26 {
27 System.out.println("TestCase3");
28 }
29 @AfterTest
30
31
32
33
34
Import 'AfterTest' (org.testng.annotations)
Create annotation 'AfterTest'
Rename in file (⌘2 R)
Pull @Test annotations to the class level
Fix project setup...
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
Press 'Tab' from proposal table or click for focus
Import the 'AfterTest' class for the AfterTest annotation
Problems
<terminated>
[TestNG] R
/private
018, 2:10:32 AM)
-customsuite.xml
TestCase3
TestCase4
TestCase1
TestCase2
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_OneWay_TestCase3
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
Default test
AfterTest cannot be resolved to a type
Writable
Smart Insert
29 : 15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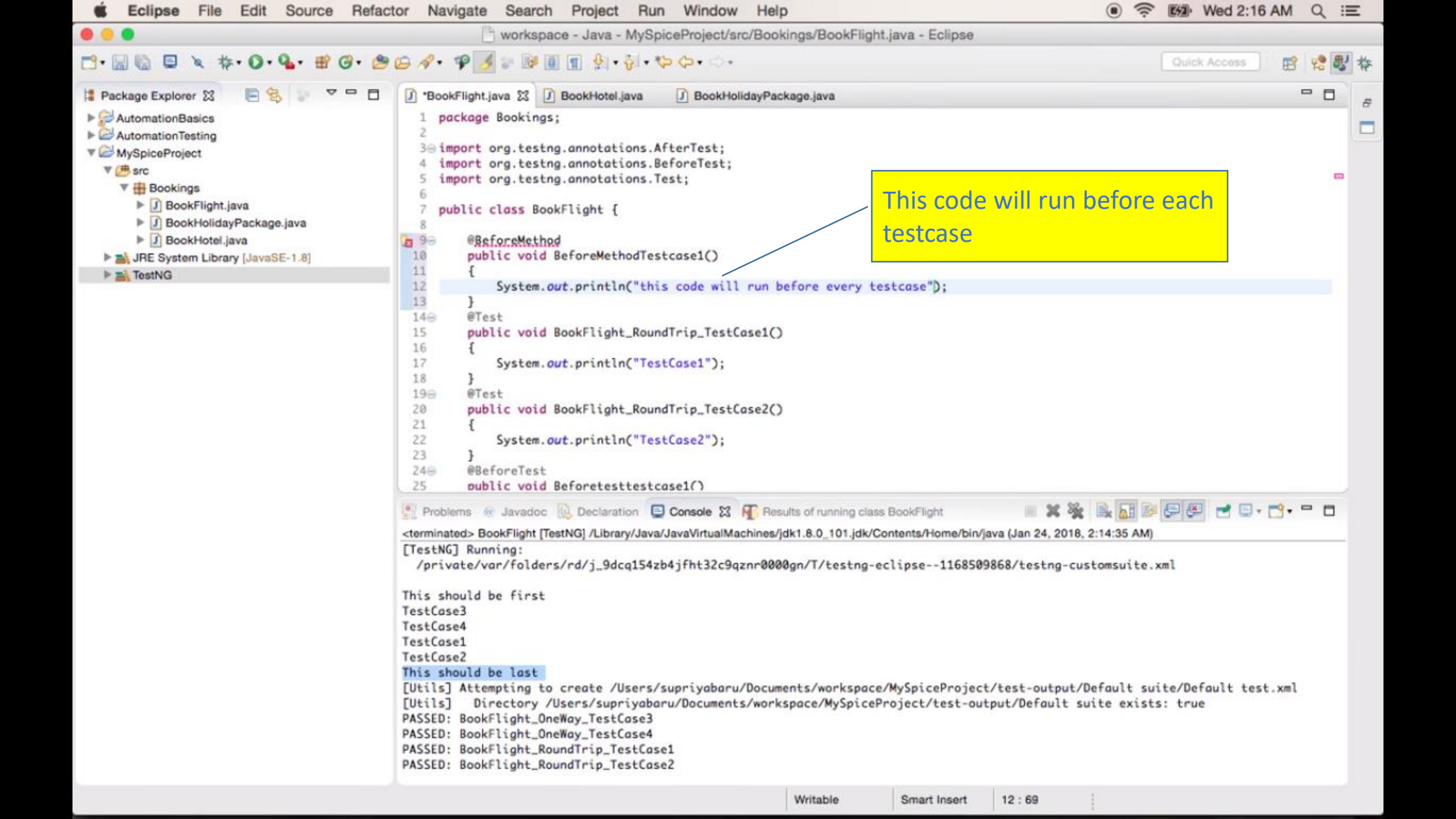
BookHotel.java
BookHolidayPackage.java
12 {
13 System.out.println("TestCase1");
14 }
15 @Test
16 public void BookFlight_RoundTrip_TestCase2()
17 {
18 System.out.println("TestCase2");
19 }
20 @BeforeTest
21 public void Beforetesttestcase1()
22 {
23 System.out.println("This should be first ");
24 }
25 @Test
26 public void BookFlight_OneWay_TestCase3()
27 {
28 System.out.println("TestCase3");
29 }
30 @AfterTest
31 public void Aftertesttestcase1()
32 {
33 System.out.println("This should be last ");
34 }
35 @Test
Run this code:
• BeforeTest runs firstly
• AfterTest runs lastly
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:14:35 AM)
[TestNG] Running:
/private/var/folders/rd/j_9dcq154zb4jfht32c9qznr0000gn/T/testng-eclipse--1168509868/testng-customsuite.xml
This should be first
TestCase3
TestCase4
TestCase1
TestCase2
This should be last
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_OneWay_TestCase3
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
Writable
Smart Insert
23 : 49

Doing something before/after each test

- BeforeMethod
- AfterMethod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BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 import org.testng.annotations.AfterTest;
4 import org.testng.annotations.BeforeTest;
5 import org.testng.annotations.Test;
6
7 public class BookFlight {
8
9 @BeforeMethod
10 public void BeforeMethodTestcase1()
11 {
12 System.out.println("this code will run before every testcase");
13 }
14 @Test
15 public void BookFlight_RoundTrip_TestCase1()
16 {
17 System.out.println("TestCase1");
18 }
19 @Test
20 public void BookFlight_RoundTrip_TestCase2()
21 {
22 System.out.println("TestCase2");
23 }
24 @BeforeTest
25 public void Beforetesttestcase1()
This code will run before each testcase
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:14:35 AM)
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This should be last
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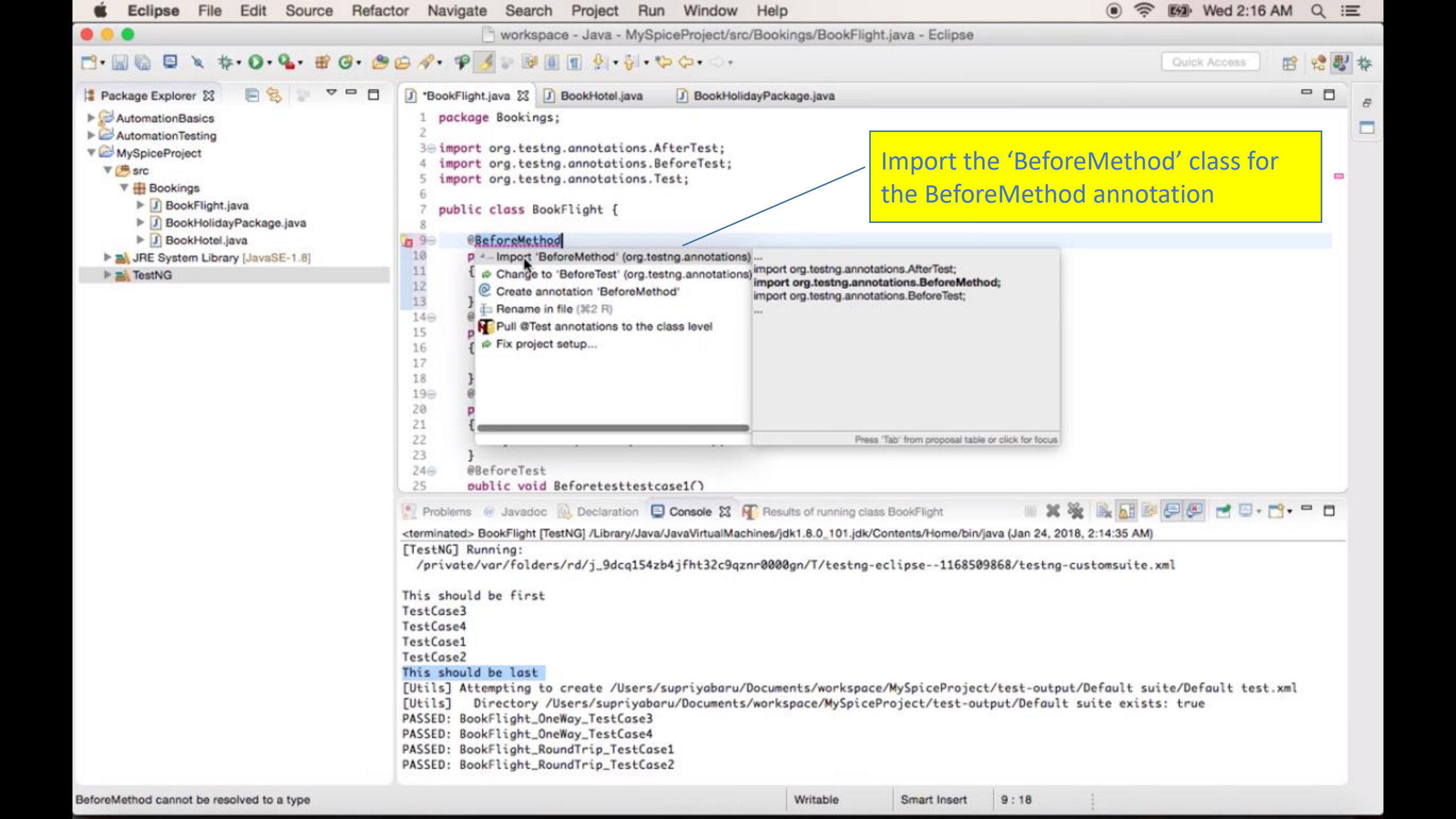
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
Writable
Smart Insert
12 : 69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BookHolidayPackage.java
1 package Bookings;
3 import org.testng.annotations.AfterTest;
4 import org.testng.annotations.BeforeTest;
5 import org.testng.annotations.Test;
7 public class BookFlight {
9 @BeforeMethod
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Change to 'BeforeTest' (org.testng.annotations)
Create annotation 'BeforeMethod'
Rename in file (⌘2 R)
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Fix project setup...
import org.testng.annotations.AfterTest;
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import org.testng.annotations.BeforeTest;
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23 }
24 @BeforeTest
25 public void Beforetesttestcase1()
Import the 'BeforeMethod' class for the BeforeMethod annotation
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This should be first
TestCase3
TestCase4
TestCase1
TestCase2
This should be last
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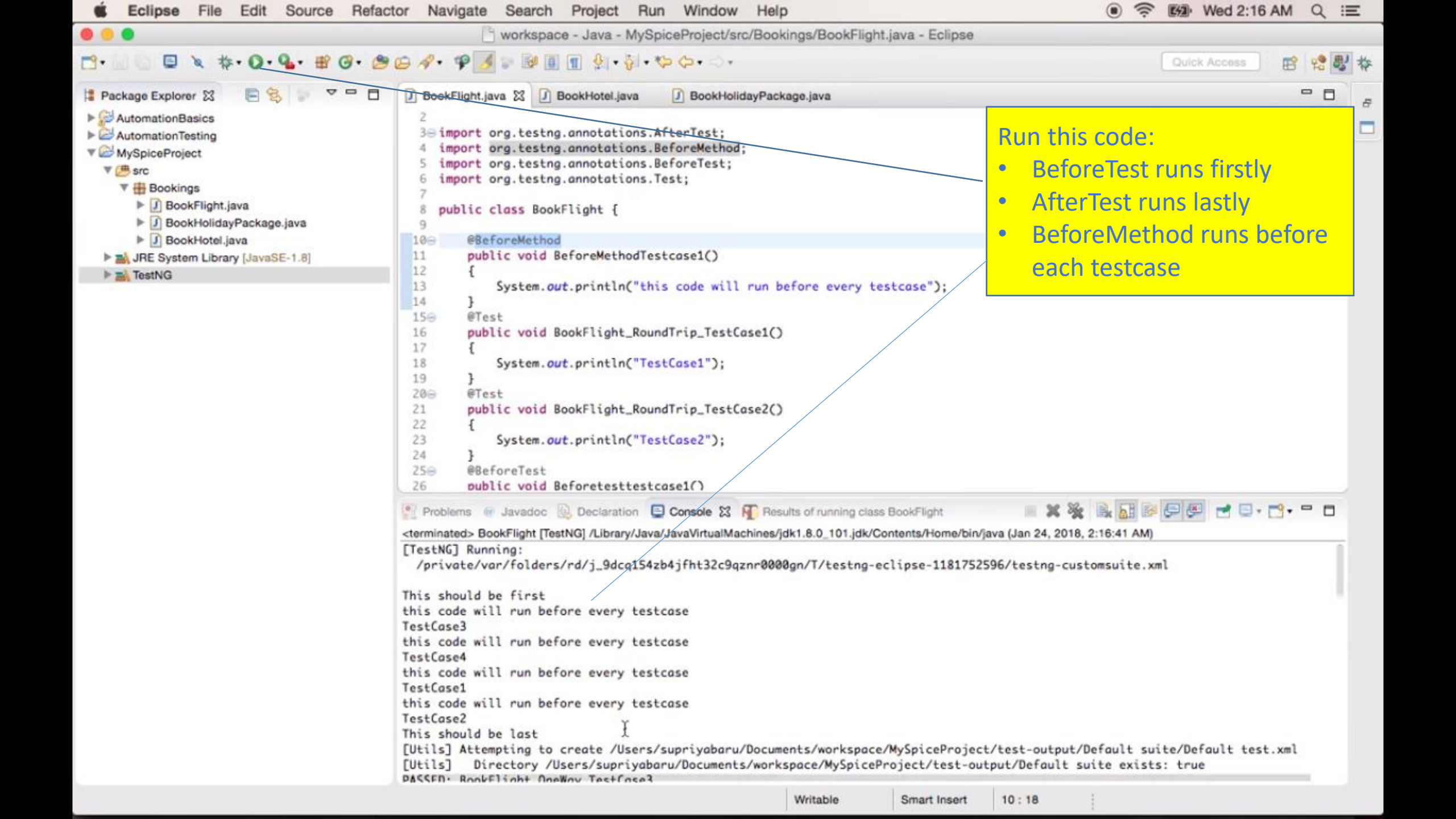
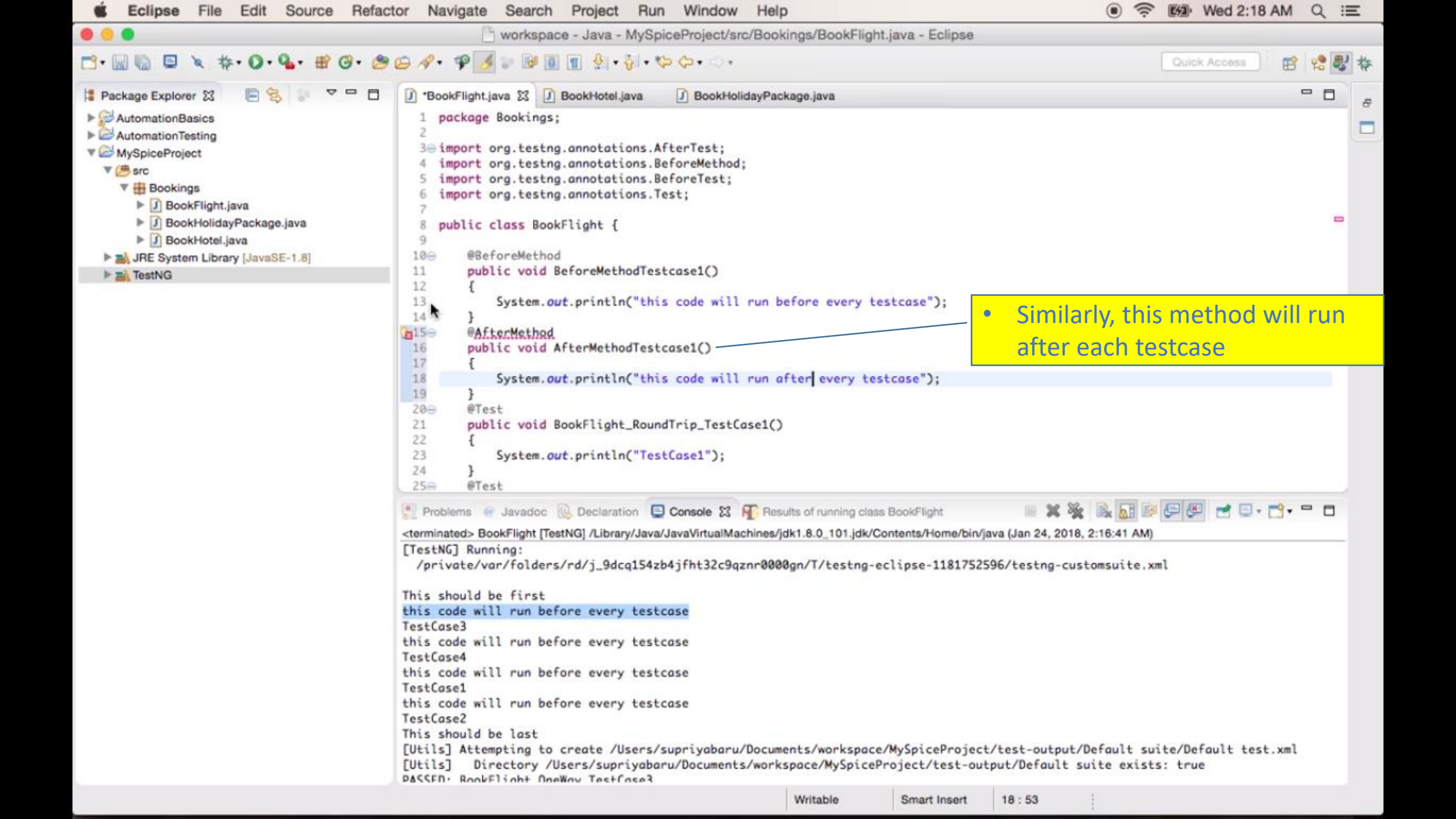
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_OneWay_TestCase3
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_RoundTrip_TestCase2
BeforeMethod cannot be resolved to a type
Writable
Smart Insert
9 : 18


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:16 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
BookFlight.java
BookHotel.java
BookHolidayPackage.java
2
3 import org.testng.annotations.AfterTest;
4 import org.testng.annotations.BeforeMethod;
5 import org.testng.annotations.BeforeTest;
6 import org.testng.annotations.Test;
7
8 public class BookFlight {
9
10 @BeforeMethod
11 public void BeforeMethodTestcase1()
12 {
13 System.out.println("this code will run before every testcase");
14 }
15 @Test
16 public void BookFlight_RoundTrip_TestCase1()
17 {
18 System.out.println("TestCase1");
19 }
20 @Test
21 public void BookFlight_RoundTrip_TestCase2()
22 {
23 System.out.println("TestCase2");
24 }
25 @BeforeTest
26 public void Beforetesttestcase1()
Run this code:
• BeforeTest runs firstly
• AfterTest runs lastly
• BeforeMethod runs before each testcase
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:16:41 AM)
[TestNG] Running:
/private/var/folders/rd/j_9dcq154zb4jfht32c9qznr0000gn/T/testng-eclipse-1181752596/testng-customsuite.xml
This should be first
this code will run before every testcase
TestCase3
this code will run before every testcase
TestCase4
this code will run before every testcase
TestCase1
this code will run before every testcase
TestCase2
This should be last
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
Writable
Smart Insert
10 : 18


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:18 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
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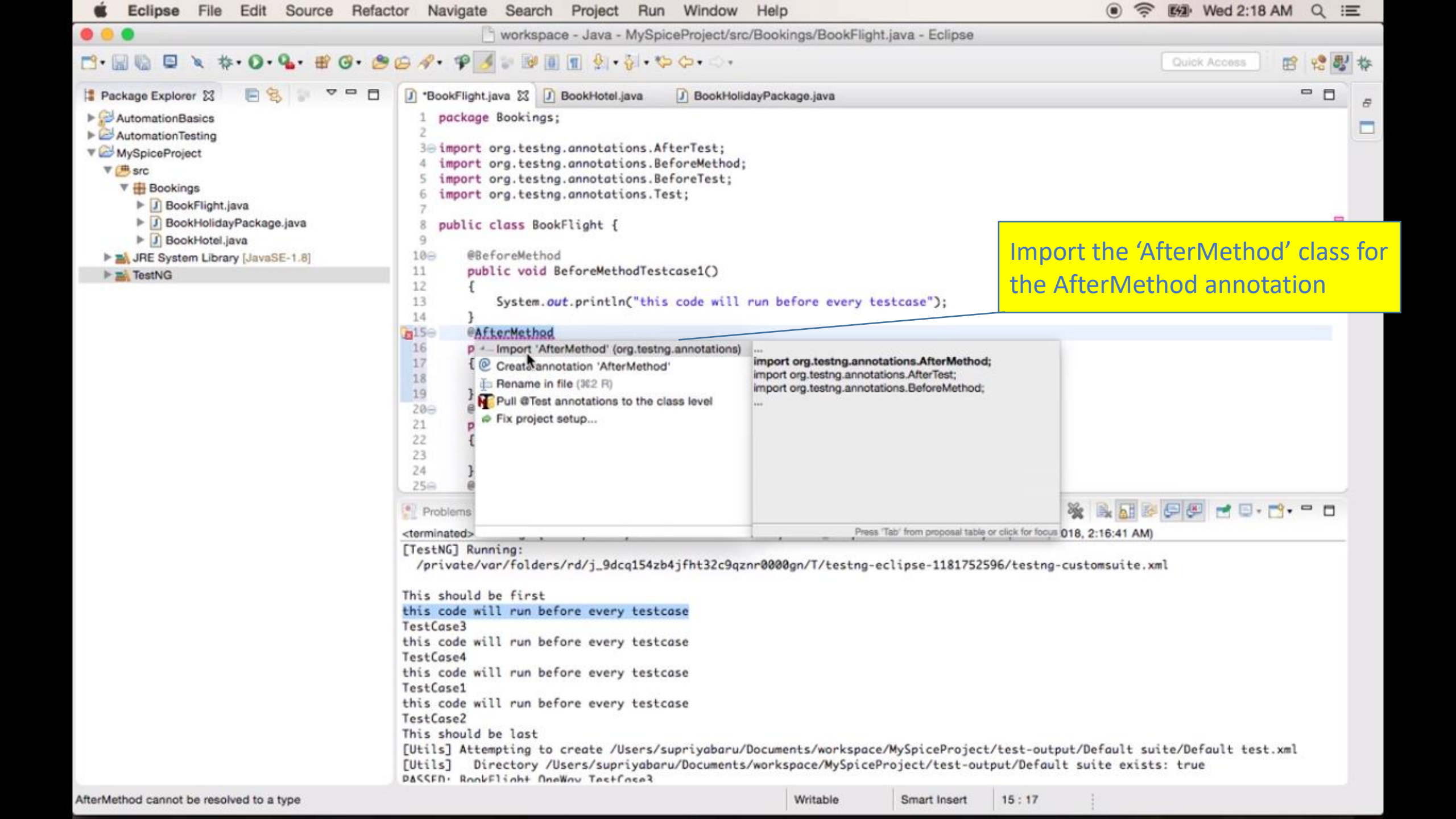
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
2
3 import org.testng.annotations.AfterTest;
4 import org.testng.annotations.BeforeMethod;
5 import org.testng.annotations.BeforeTest;
6 import org.testng.annotations.Test;
7
8 public class BookFlight {
9
10 @BeforeMethod
11 public void BeforeMethodTestcase1()
12 {
13 System.out.println("this code will run before every testcase");
14 }
15 @AfterMethod
16 public void AfterMethodTestcase1()
17 {
18 System.out.println("this code will run after every testcase");
19 }
20 @Test
21 public void BookFlight_RoundTrip_TestCase1()
22 {
23 System.out.println("TestCase1");
24 }
25 @Test
Similarly, this method will run after each testcase
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:16:41 AM)
[TestNG] Running:
/private/var/folders/rd/j_9dcq154zb4jfht32c9qznr0000gn/T/testng-eclipse-1181752596/testng-customsuite.xml
This should be first
this code will run before every testcase
TestCase3
this code will run before every testcase
TestCase4
this code will run before every testcase
TestCase1
this code will run before every testcase
TestCase2
This should be last
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
Writable
Smart Insert
18 : 53


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:18 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Package Explorer
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AutomationTesting
MySpiceProject
src
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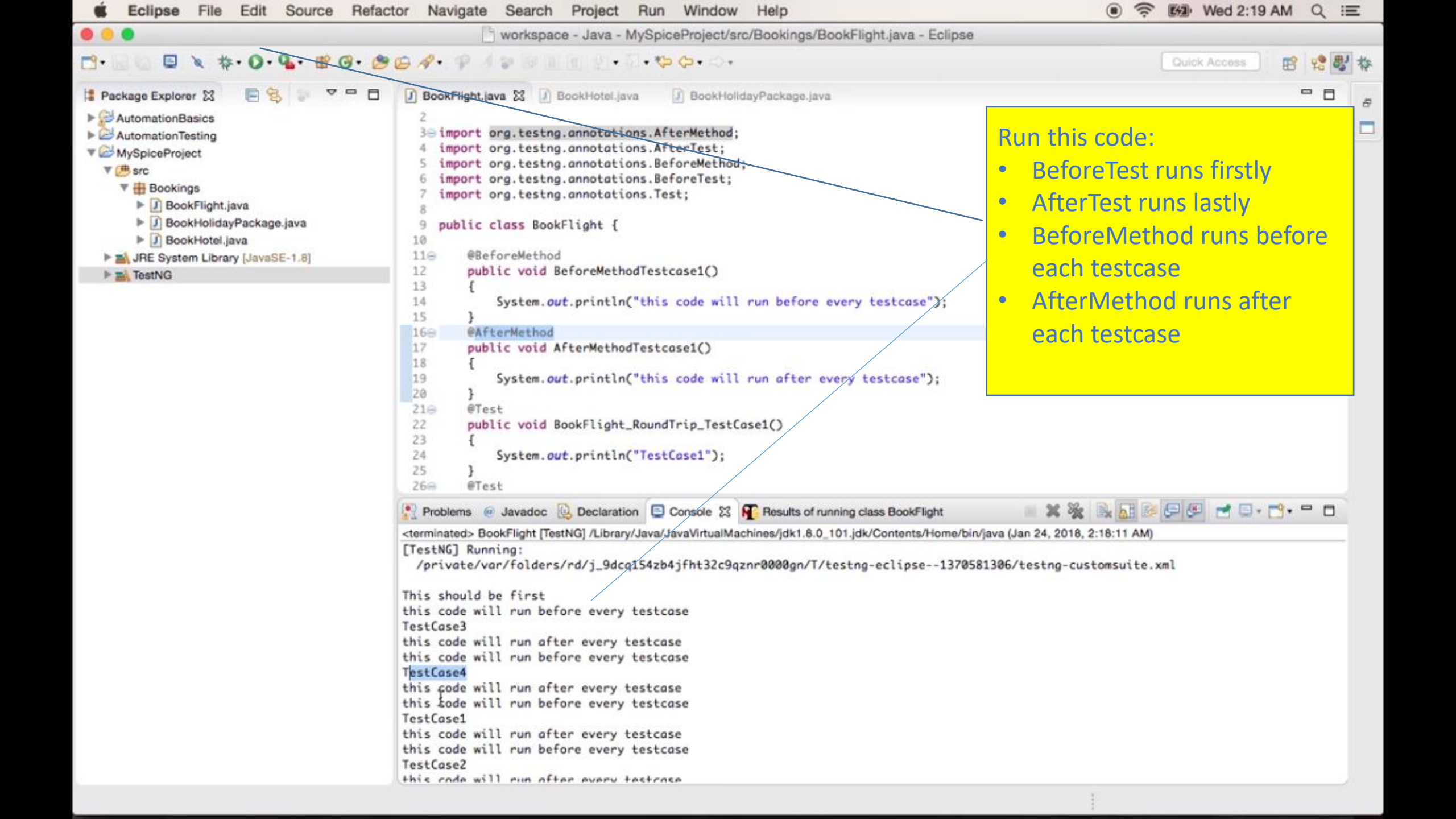
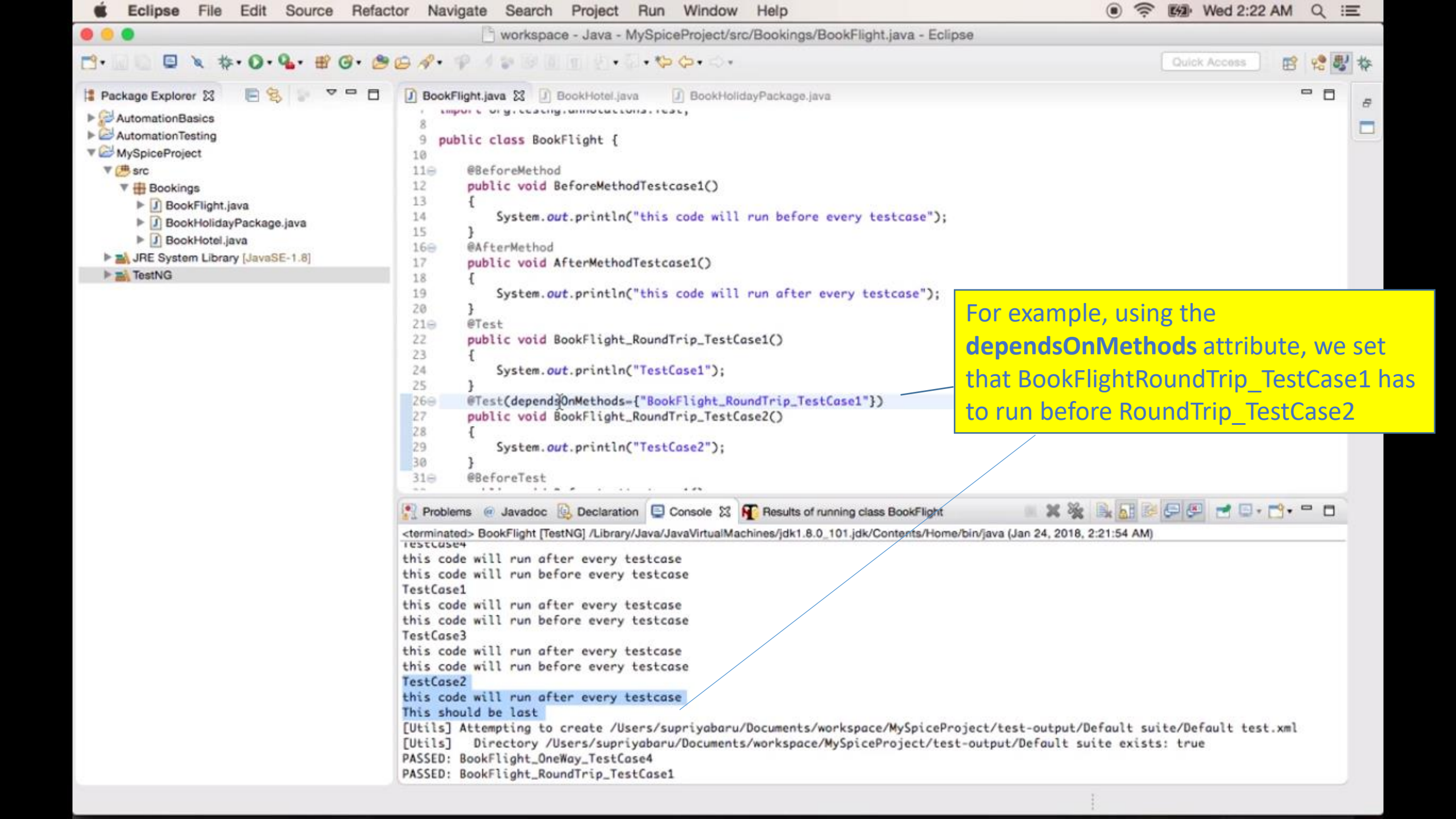
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
*BookFlight.java
BookHotel.java
BookHolidayPackage.java
1 package Bookings;
3 import org.testng.annotations.AfterTest;
4 import org.testng.annotations.BeforeMethod;
5 import org.testng.annotations.BeforeTest;
6 import org.testng.annotations.Test;
8 public class BookFlight {
10 @BeforeMethod
11 public void BeforeMethodTestcase1()
12 {
13 System.out.println("this code will run before every testcase");
14 }
15 @AfterMethod
Import 'AfterMethod' (org.testng.annotations)
Create annotation 'AfterMethod'
Rename in file (⌘2 R)
Pull @Test annotations to the class level
Fix project setup...
import org.testng.annotations.AfterMethod;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeMethod;
Press 'Tab' from proposal table or click for focus
Import the 'AfterMethod' class for the AfterMethod annotation
Problems
<terminated>
018, 2:16:41 AM)
[TestNG] Running:
/private/var/folders/rd/j_9dcq154zb4jfht32c9qznr0000gn/T/testng-eclipse-1181752596/testng-customsuite.xml
This should be first
this code will run before every testcase
TestCase3
this code will run before every testcase
TestCase4
this code will run before every testcase
TestCase1
this code will run before every testcase
TestCase2
This should be last
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
AfterMethod cannot be resolved to a type
Writable
Smart Insert
15 : 17


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:19 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
Package Explorer
AutomationBasics
AutomationTesting
MySpiceProject
src
Bookings
BookFlight.java
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
BookFlight.java
BookHotel.java
BookHolidayPackage.java
2
3 import org.testng.annotations.AfterMethod;
4 import org.testng.annotations.AfterTest;
5 import org.testng.annotations.BeforeMethod;
6 import org.testng.annotations.BeforeTest;
7 import org.testng.annotations.Test;
8
9 public class BookFlight {
10
11 @BeforeMethod
12 public void BeforeMethodTestcase1()
13 {
14 System.out.println("this code will run before every testcase");
15 }
16 @AfterMethod
17 public void AfterMethodTestcase1()
18 {
19 System.out.println("this code will run after every testcase");
20 }
21 @Test
22 public void BookFlight_RoundTrip_TestCase1()
23 {
24 System.out.println("TestCase1");
25 }
26 @Test
Run this code:
• BeforeTest runs firstly
• AfterTest runs lastly
• BeforeMethod runs before each testcase
• AfterMethod runs after each testcase
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:18:11 AM)
[TestNG] Running:
/private/var/folders/rd/j_9dcq154zb4jfht32c9qznr0000gn/T/testng-eclipse--1370581306/testng-customsuite.xml
This should be first
this code will run before every testcase
TestCase3
this code will run after every testcase
this code will run before every testcase
TestCase4
this code will run after every testcase
this code will run before every testcase
TestCase1
this code will run after every testcase
this code will run before every testcase
TestCase2

- We can add some attributes to annotations in order to make them more useful.


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:22 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
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MySpiceProject
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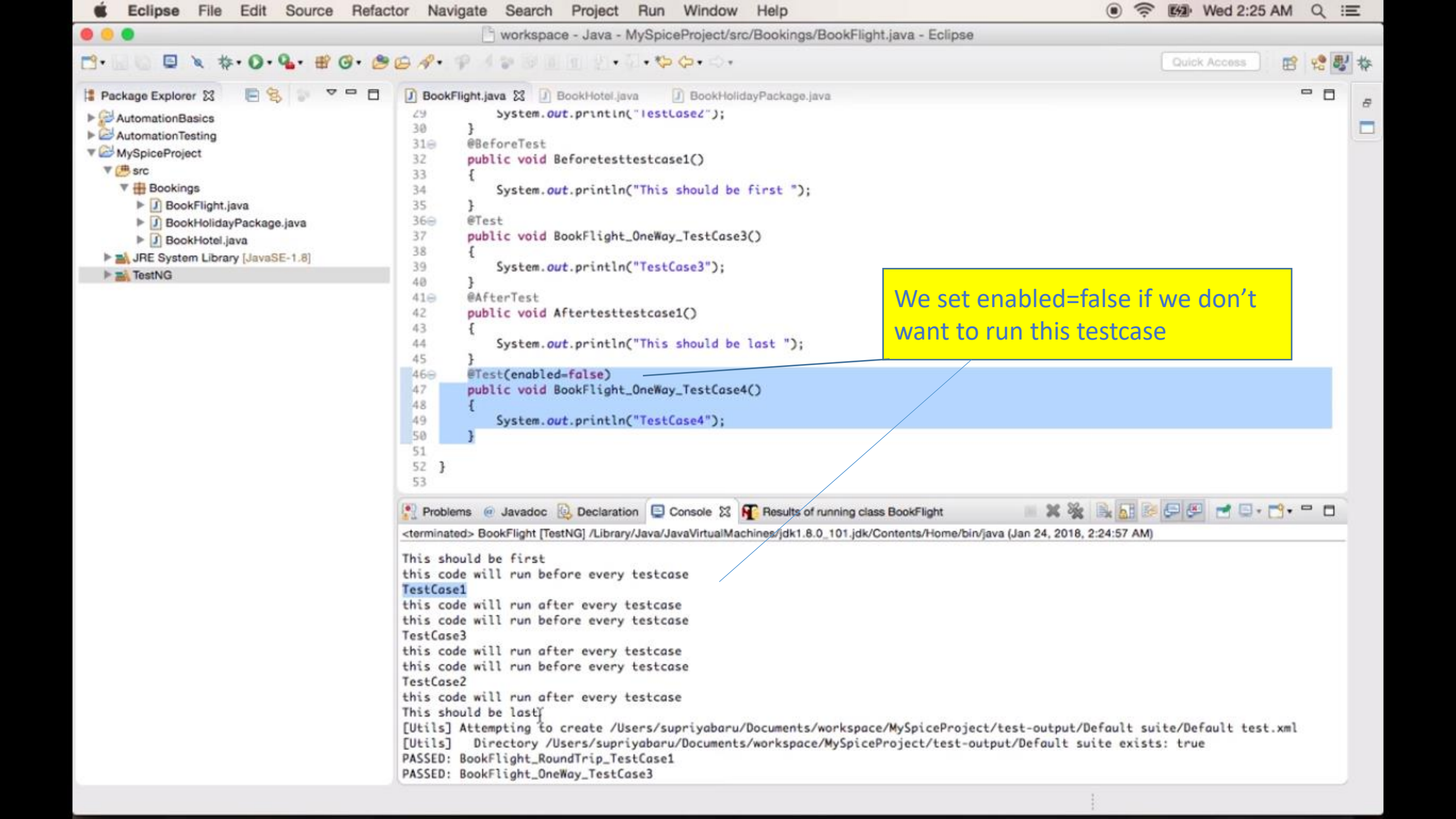
BookHolidayPackage.java
BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
BookFlight.java
BookHotel.java
BookHolidayPackage.java
8
9 public class BookFlight {
10
11 @BeforeMethod
12 public void BeforeMethodTestcase1()
13 {
14 System.out.println("this code will run before every testcase");
15 }
16 @AfterMethod
17 public void AfterMethodTestcase1()
18 {
19 System.out.println("this code will run after every testcase");
20 }
21 @Test
22 public void BookFlight_RoundTrip_TestCase1()
23 {
24 System.out.println("TestCase1");
25 }
26 @Test(dependsOnMethods={"BookFlight_RoundTrip_TestCase1"})
27 public void BookFlight_RoundTrip_TestCase2()
28 {
29 System.out.println("TestCase2");
30 }
31 @BeforeTest
For example, using the dependsOnMethods attribute, we set that BookFlightRoundTrip_TestCase1 has to run before RoundTrip_TestCase2
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:21:54 AM)
this code will run after every testcase
this code will run before every testcase
TestCase1
this code will run after every testcase
this code will run before every testcase
TestCase3
this code will run after every testcase
this code will run before every testcase
TestCase2
this code will run after every testcase
This should be last
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_OneWay_TestCase4
PASSED: BookFlight_RoundTrip_TestCase1


Eclipse File Edit Source Refactor Navigate Search Project Run Window Help
Wed 2:25 AM
workspace - Java - MySpiceProject/src/Bookings/BookFlight.java - Eclipse
Quick Access
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AutomationBasics
AutomationTesting
MySpiceProject
src
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BookFlight.java
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BookHotel.java
JRE System Library [JavaSE-1.8]
TestNG
BookFlight.java
BookHotel.java
BookHolidayPackage.java
System.out.println("TestCase2");
}
@BeforeTest
public void Beforetesttestcase1()
{
System.out.println("This should be first ");
}
@Test
public void BookFlight_OneWay_TestCase3()
{
System.out.println("TestCase3");
}
@AfterTest
public void Aftertesttestcase1()
{
System.out.println("This should be last ");
}
@Test(enabled=false)
public void BookFlight_OneWay_TestCase4()
{
System.out.println("TestCase4");
}
}
We set enabled=false if we don't want to run this testcase
Problems Javadoc Declaration Console Results of running class BookFlight
<terminated> BookFlight [TestNG] /Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home/bin/java (Jan 24, 2018, 2:24:57 AM)
This should be first
this code will run before every testcase
TestCase1
this code will run after every testcase
this code will run before every testcase
TestCase3
this code will run after every testcase
this code will run before every testcase
TestCase2
this code will run after every testcase
This should be last
[Utils] Attempting to create /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite/Default test.xml
[Utils] Directory /Users/supriyabaru/Documents/workspace/MySpiceProject/test-output/Default suite exists: true
PASSED: BookFlight_RoundTrip_TestCase1
PASSED: BookFlight_OneWay_TestCase3

Other annotations

- BeforeClass
- AfterClass
- …

```
//BookLight.java
package Bookings;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
public class BookFlight {
@BeforeMethod
public void BeforeMethodTestcase1()
{
System.out.println("This code will be run before every testcase");
}
@Test
public void BookFlight_RoundTrip_TestCase1()
{
System.out.println("TestCase1");
}
@Test(dependsOnMethods={"BookFlight_RoundTrip_TestCase1"})
public void BookFlight_RoundTrip_TestCase2()
{
System.out.println("TestCase2");
}
@BeforeTest
public void Beforetesttestcases()
{
System.out.println("This should be first");
}

@AfterTest
public void Aftertesttestcase1()
{
System.out.println("This should be last");

}

@Test
public void BookFlight_RoundTrip_TestCase3()
{
System.out.println("TestCase3");
}

@Test(enabled=false)
public void BookFlight_RoundTrip_TestCase4()
{
System.out.println("TestCase4");
}
}
```

Reference

- TestNG Annotations, https://www.youtube.com/watch?v=JL4LbEi0JfU&list=PLW2TrvplfStfQqgWJmXRTwtspS6RKmtoR&index=2

Read more

1. TestNG Introduction, https://www.youtube.com/watch?v=ok_sG11axFA&list=PLW2TrvplfStfQqgWJmXRTwtspS6RKmtoR&index=1
2. TestNG XML Config, https://www.youtube.com/watch?v=m_OeyPYNLc8&list=PLW2TrvplfStfQqgWJmXRTwtspS6RKmtoR&index=3
3. TestNG Include and Exclude methods, https://www.youtube.com/watch?v=xRLt6CG0mlI&list=PLW2TrvplfStfQqgWJmXRTwtspS6RKmtoR&index=4
4. TestNG Groups, https://www.youtube.com/watch?v=tN7-BYqr_es&list=PLW2TrvplfStfQqgWJmXRTwtspS6RKmtoR&index=5
5. Parameterization using xml config file, https://www.youtube.com/watch?v=GXO5vB4HqB4&list=PLW2TrvplfStfQqgWJmXRTwtspS6RKmtoR&index=6
6. @Dataprovider in TestNG, https://www.youtube.com/watch?v=XHLc203LmUk&list=PLW2TrvplfStfQqgWJmXRTwtspS6RKmtoR&index=7
7. TestNG Listeners, https://www.youtube.com/watch?v=JchmqeNWg-w&list=PLW2TrvplfStfQqgWJmXRTwtspS6RKmtoR&index=8