IT 314 Software Engineering

Lab 8

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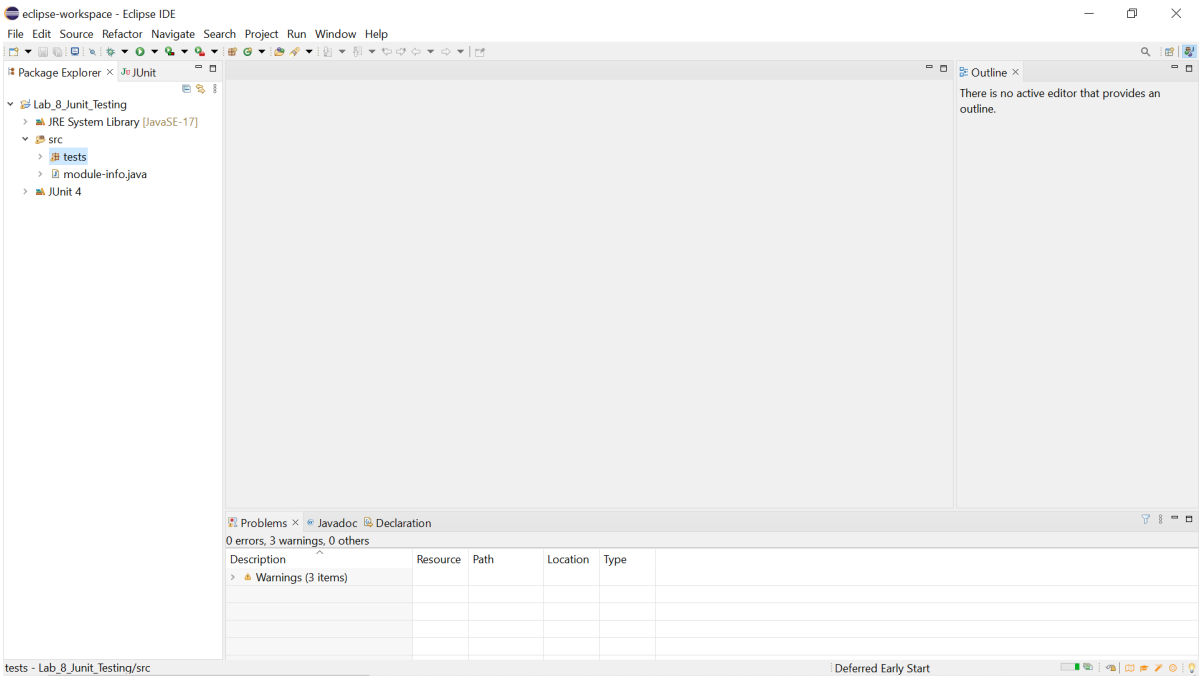
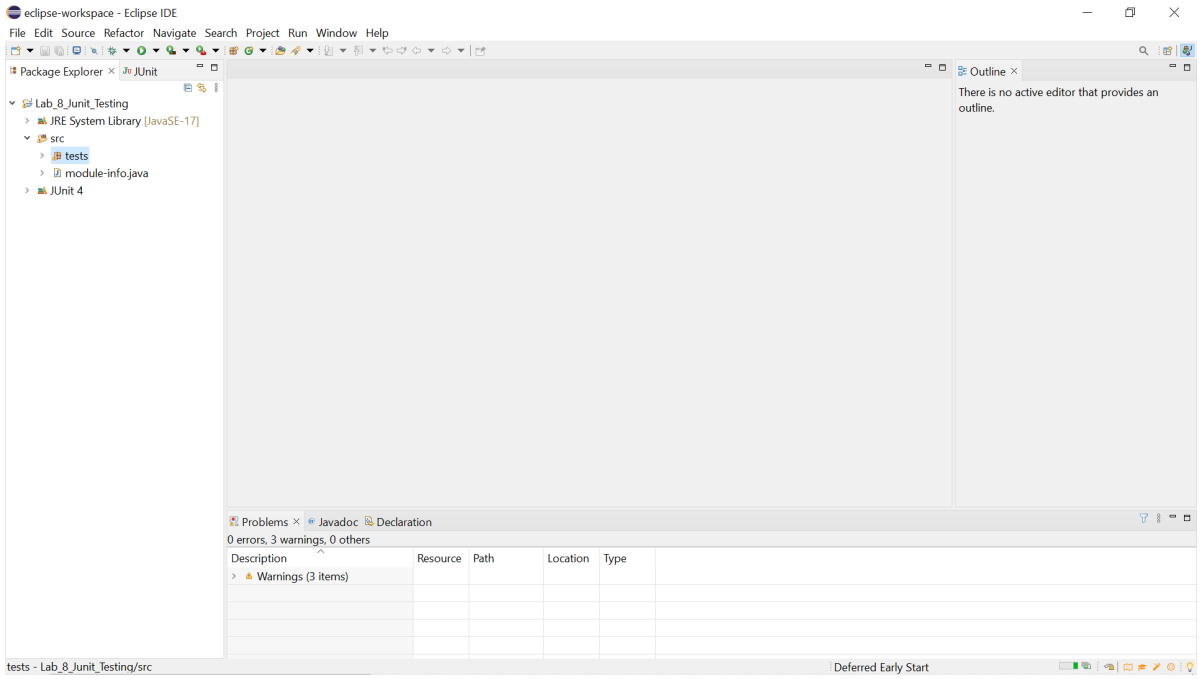
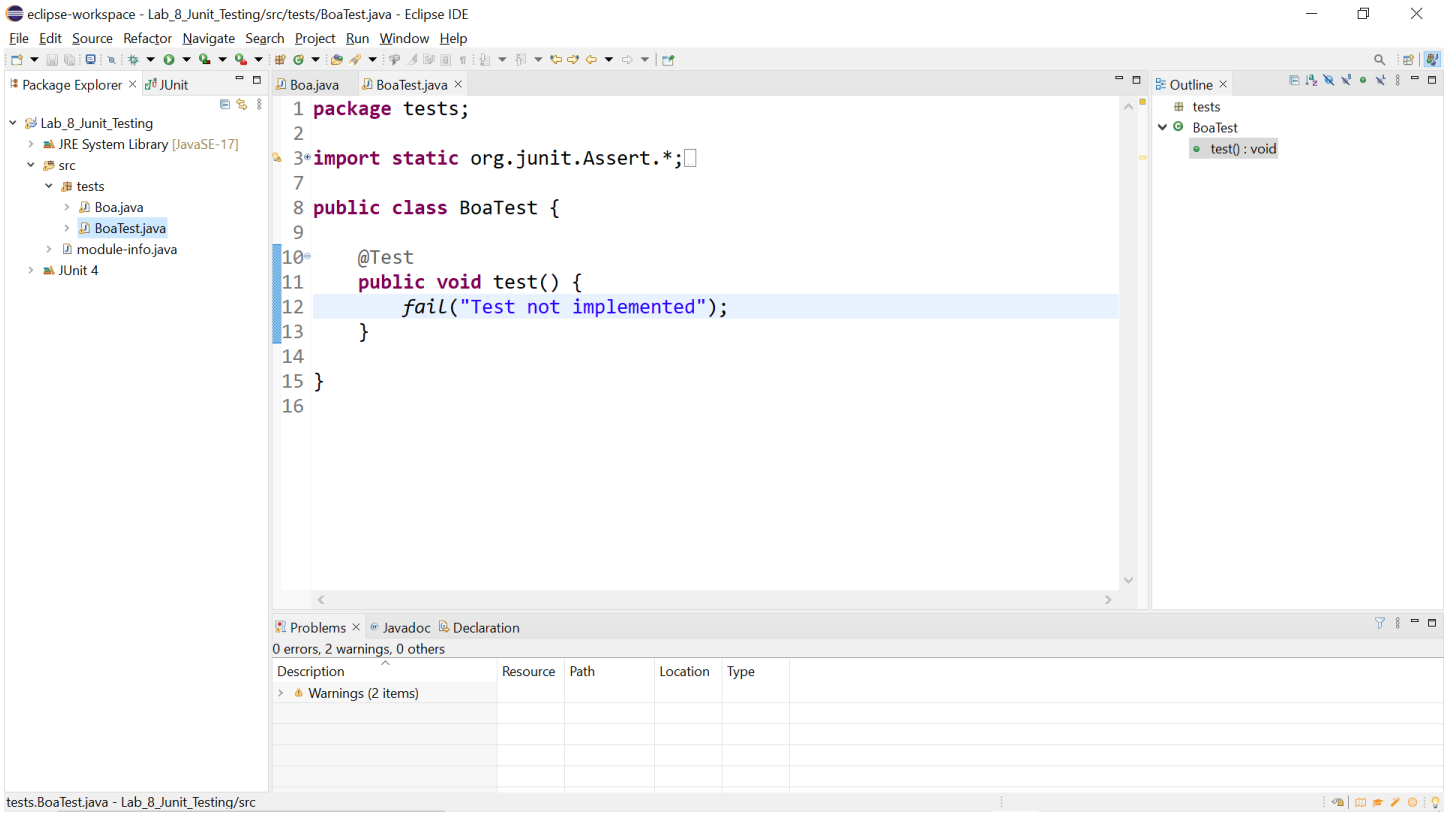
Create a new Eclipse project,



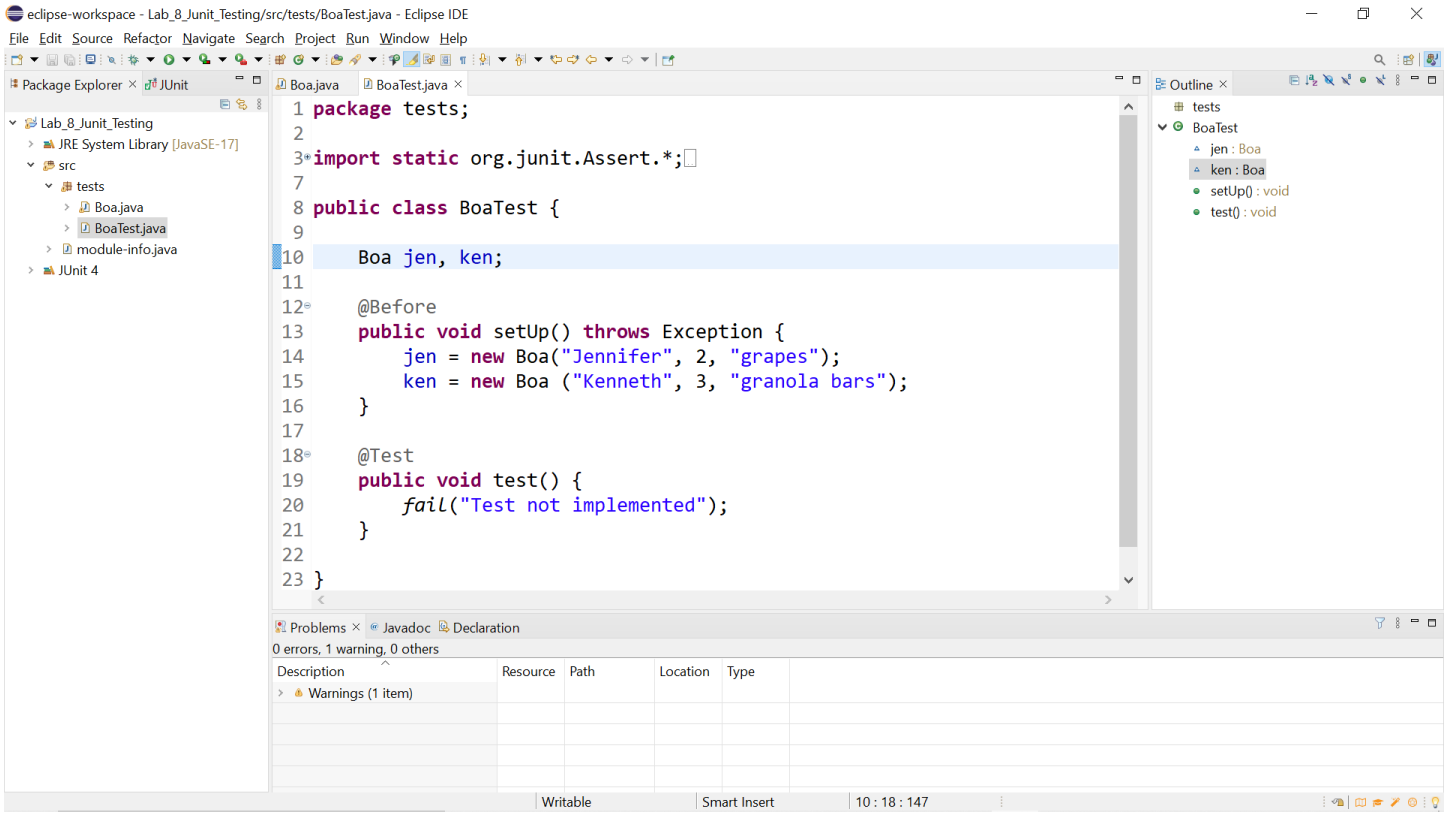
Create a new class named “Boa” with the following code,



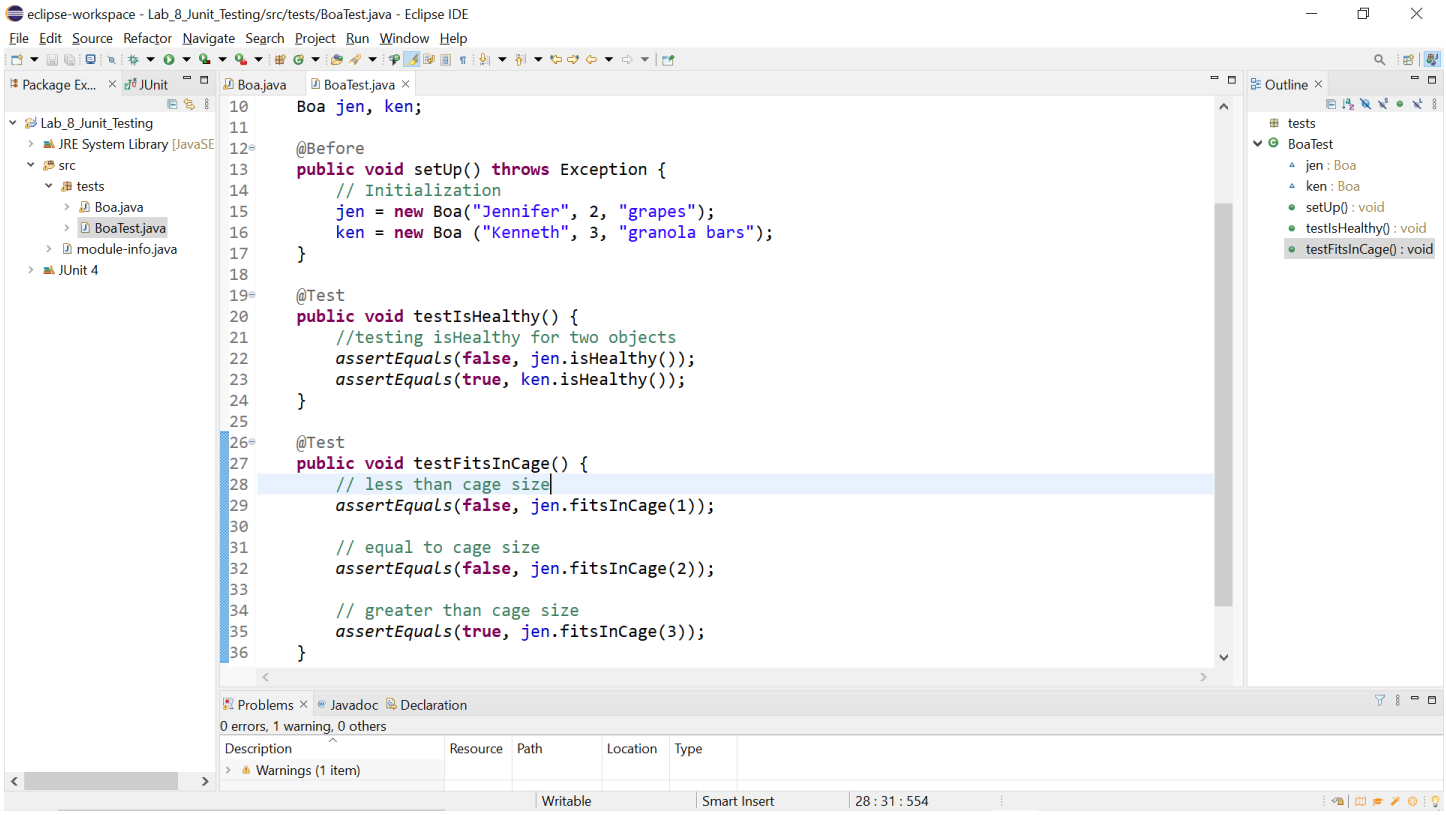
Create a JUnit test case file named “BoaTest”,



Create a setup function which initializes two new instances of Bos class named “jen” and “ken”,

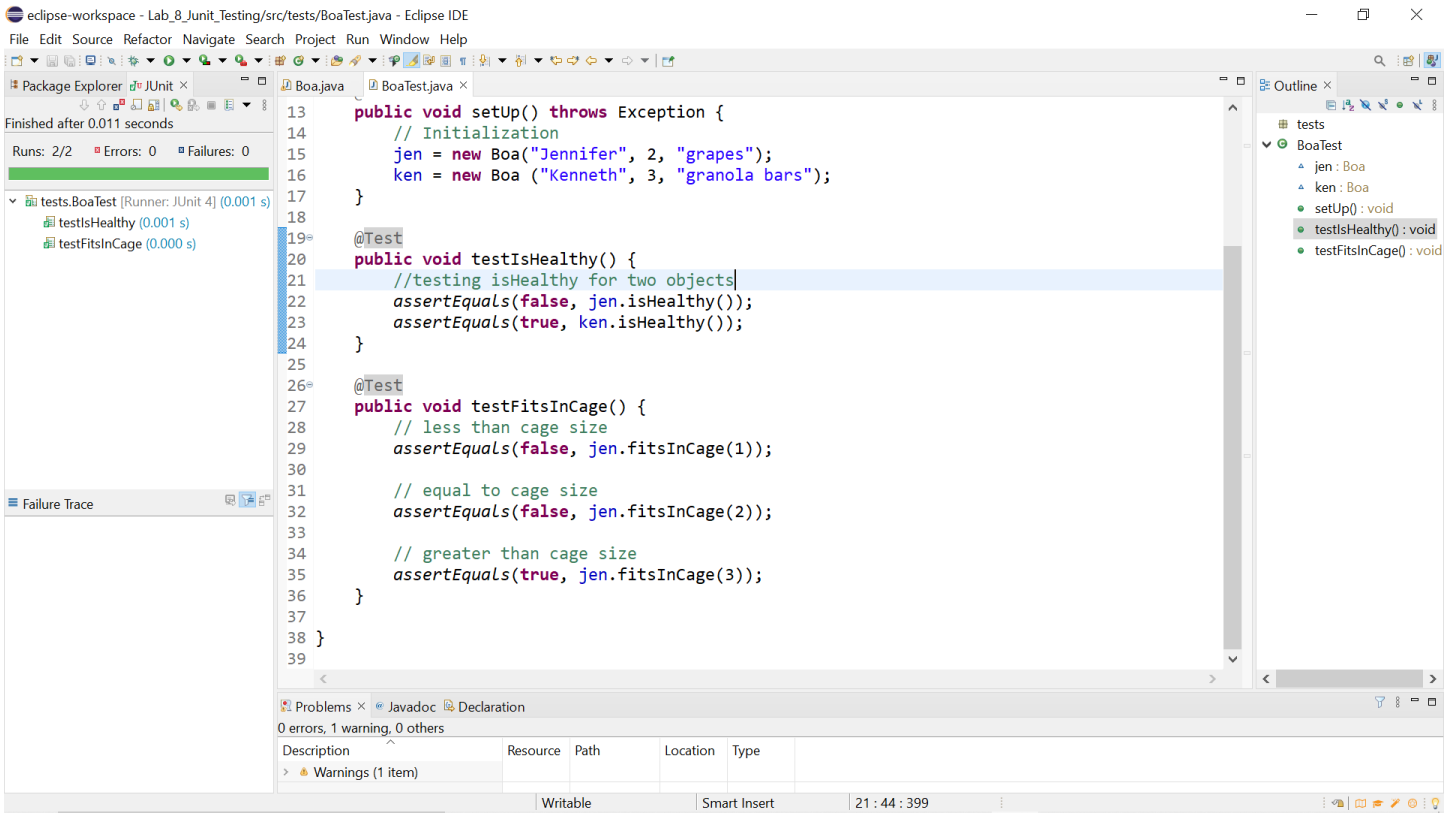


Now we have to implement the testIsHealthy() and testFitsInCage() functions in the “BoaTest” class.

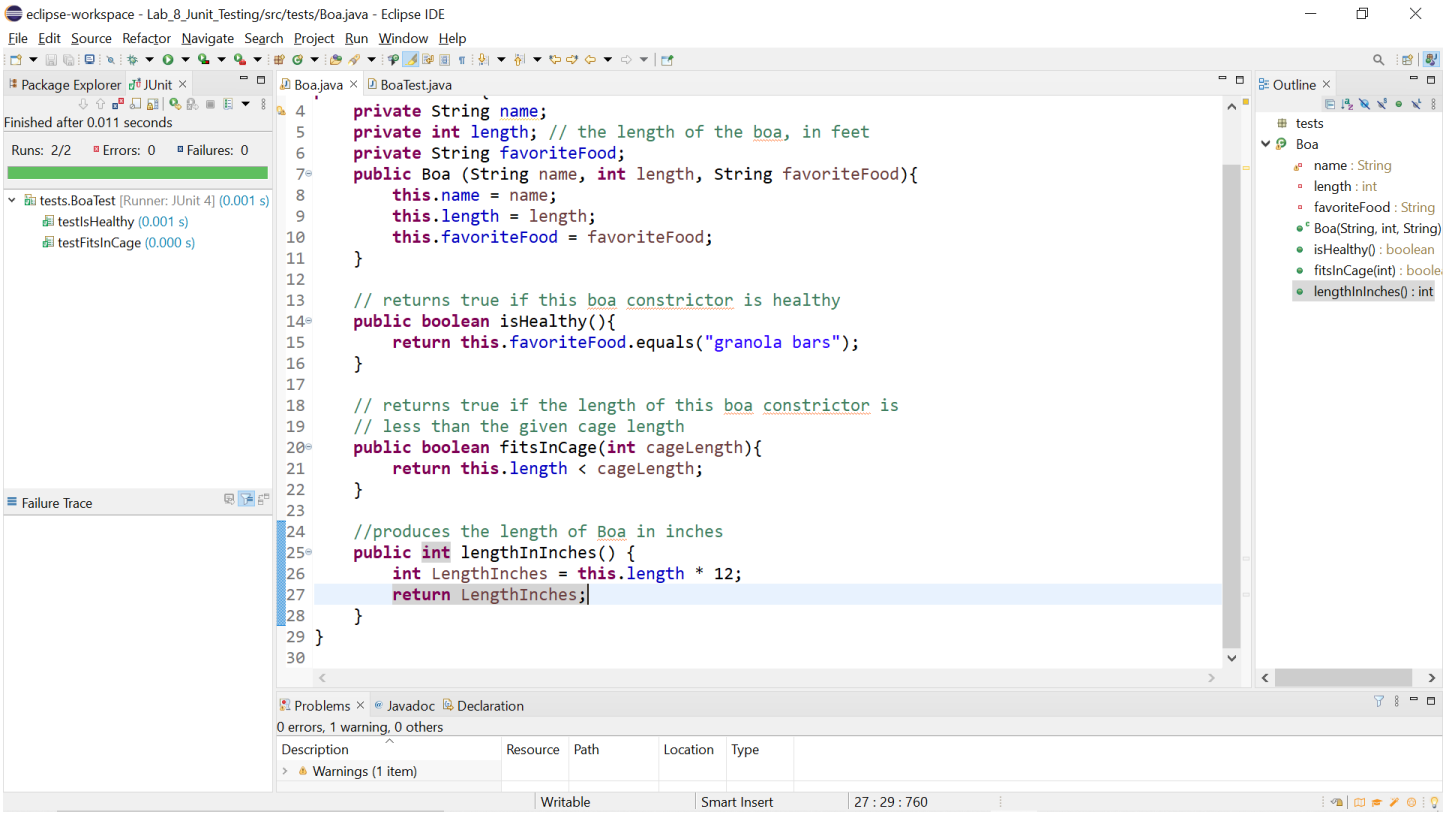


It is not necessary to develop tests for both ken and jen objects in order to test the fitsInCage() method because the function is the same for both, and the results of test cases depend only on whether the specified length is greater than, less than, or equal to the actual length of the object. In both situations, the behavior will be comparable.

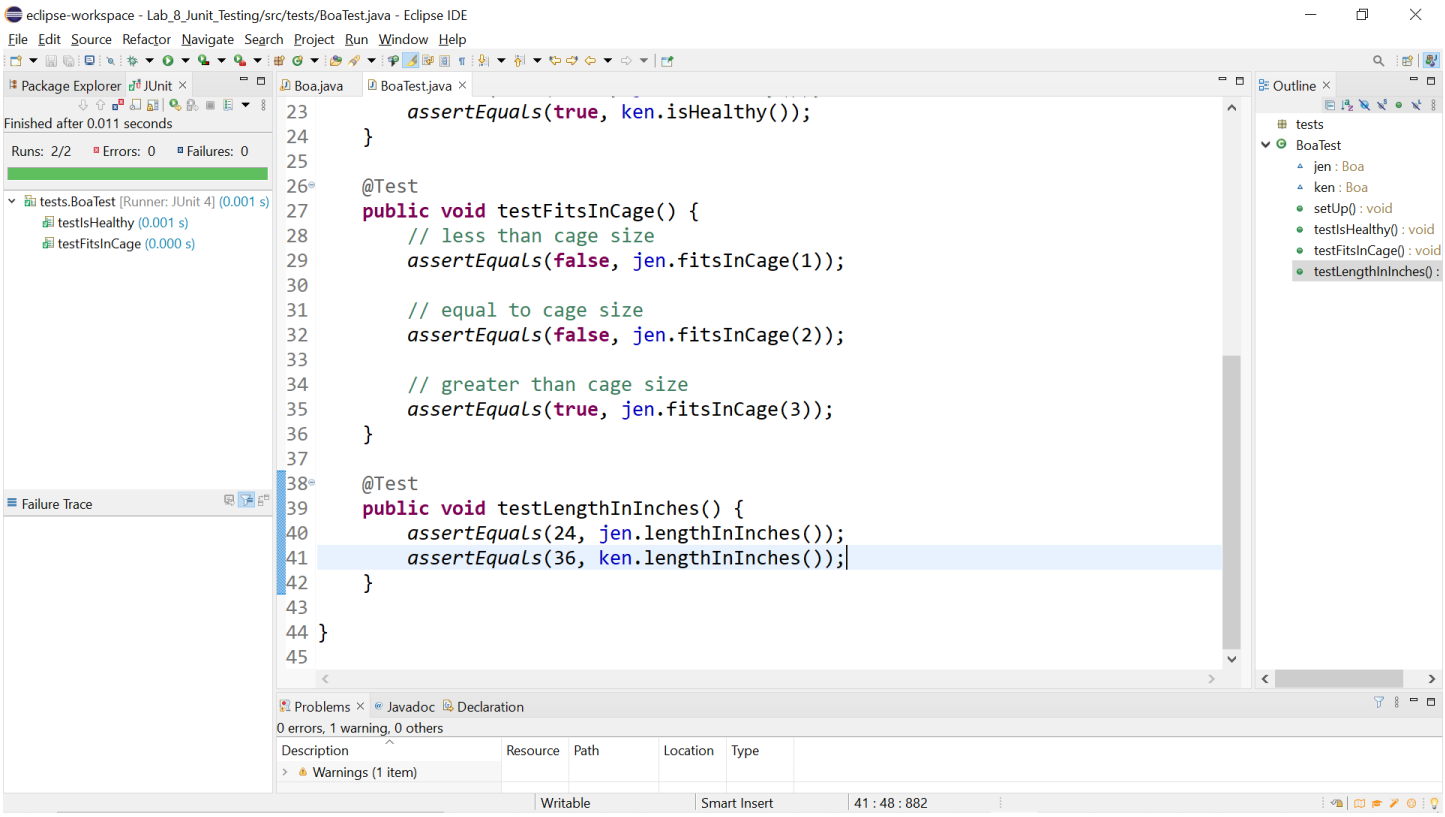
Running the testcases,



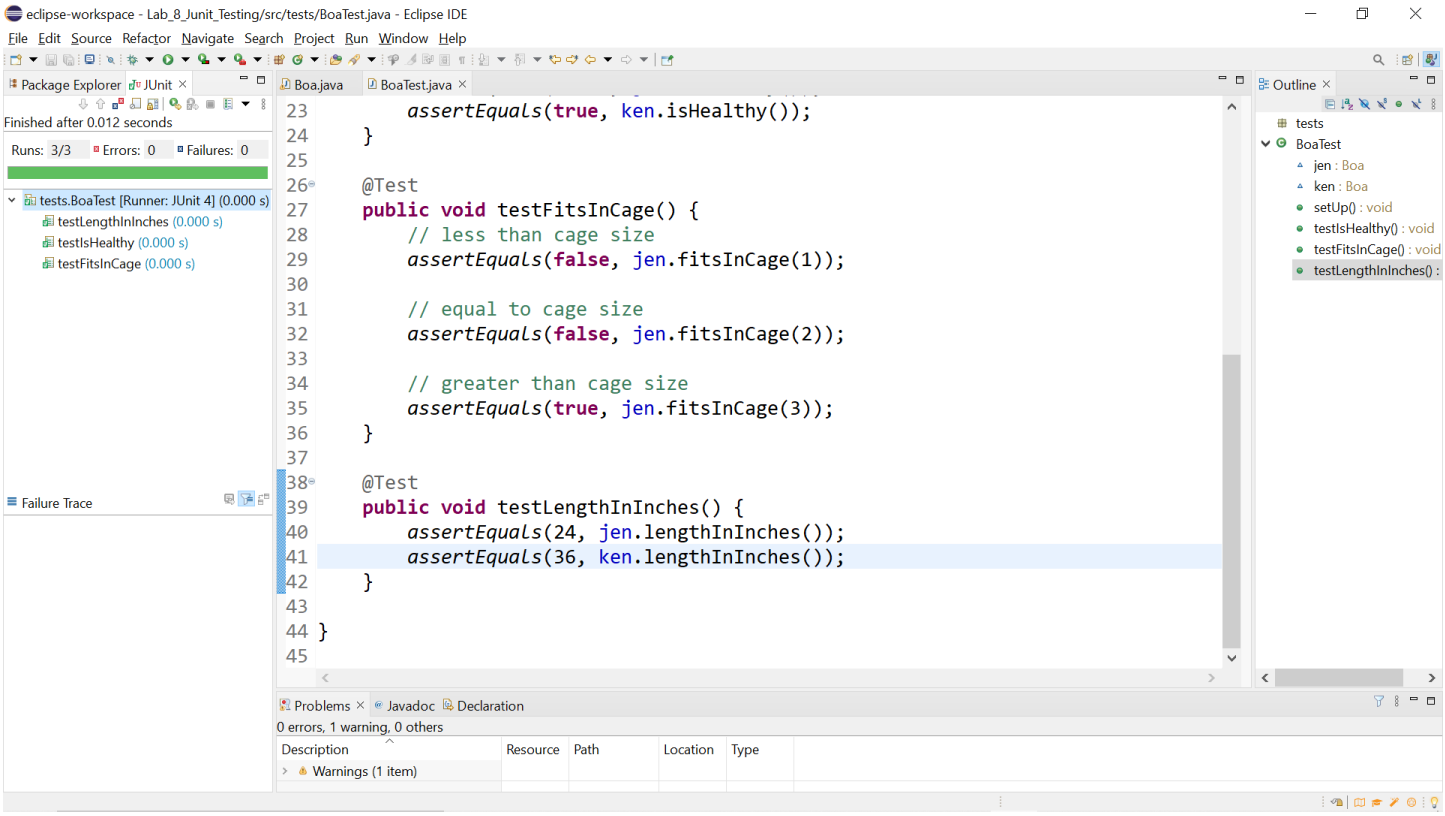
We can observe that both the tests ran successfully.
Now, we create a new method to the Boa class with name lenghtInInches() to get the length in inches.



The Boa's length is specified in feet, so I multiplied length by 12 to convert it to inches and then returned the result.
Now, writing a new test case for testing the length in inches,



Running the newly created test cases,



As a result, test cases have been created for the specified Boa class, and the necessary Junit test cases have been used to test all three methods.

******END OF ASSIGNMENT******