Software Engineering

Lab 8

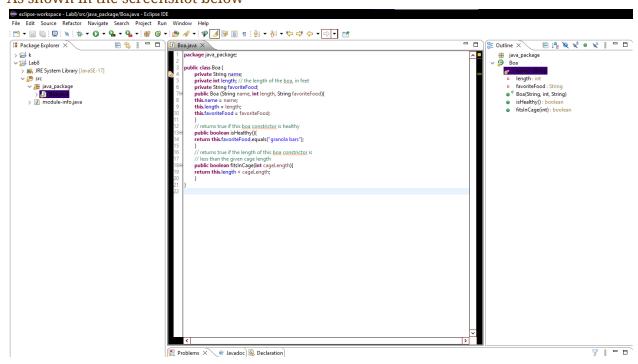
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Lab Exercises

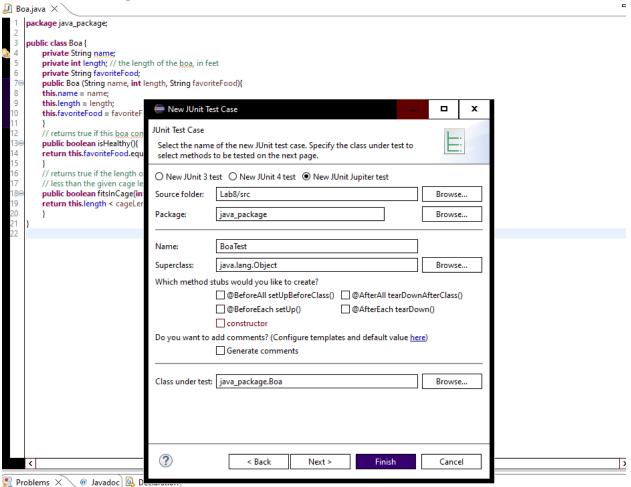
1. Creating the java project:

Creating a new Eclipse project, and within the project create a package. And then creating a class for a Boa. Here's the code you can use (you may copy/paste): As shown in the screenshot below



2. Creating the new java test case:

Now I am creating test cases for the class boa



3. Defining some unit test for some methods of boa class:

After creating the test file successfully, I've created test case for the class Boa and have selected test method stubs isHealthy() and fitsInCage(int) as shown below Now i've written some test unit as shown above and get output as shown below

```
🕖 Boa.java

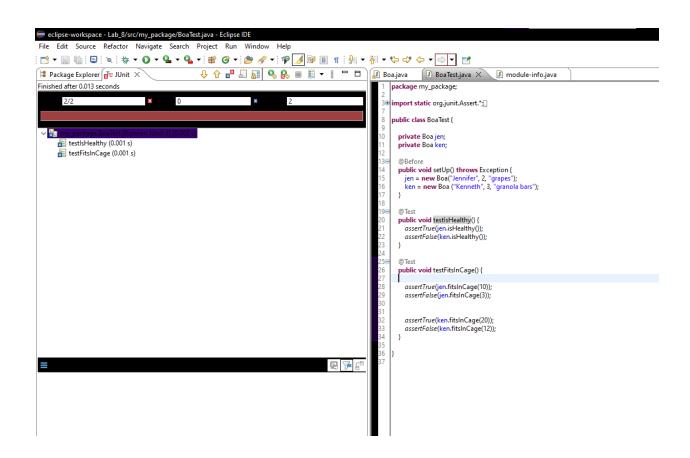
☑ BoaTest.java X

                                          module-info.java
      package my_package;
   2
   3⊕
      import static org.junit.Assert.*;[.]
   8
      public class BoaTest {
   9
  10
         private Boa jen;
         private Boa ken;
  12
  136
         @Before
  14
         public void setUp() throws Exception {
  15
           jen = new Boa("Jennifer", 2, "grapes");
  16
           ken = new Boa ("Kenneth", 3, "granola bars");
  18
  19∈
         public void testlsHealthy() {
           assertTrue(jen.isHealthy());
           assertFalse(ken.isHealthy());
         @Test
         public void testFitsInCage() {
  28
           assertTrue(jen.fitsInCage(10));
  29
           assertFalse(jen.fitsInCage(3));
           assertTrue(ken.fitsInCage(20));
  33
           assertFalse(ken.fitsInCage(12));
  36
```

4. Adding one more function to the class

Here new function lengthininches is added

Output:



Output:

