

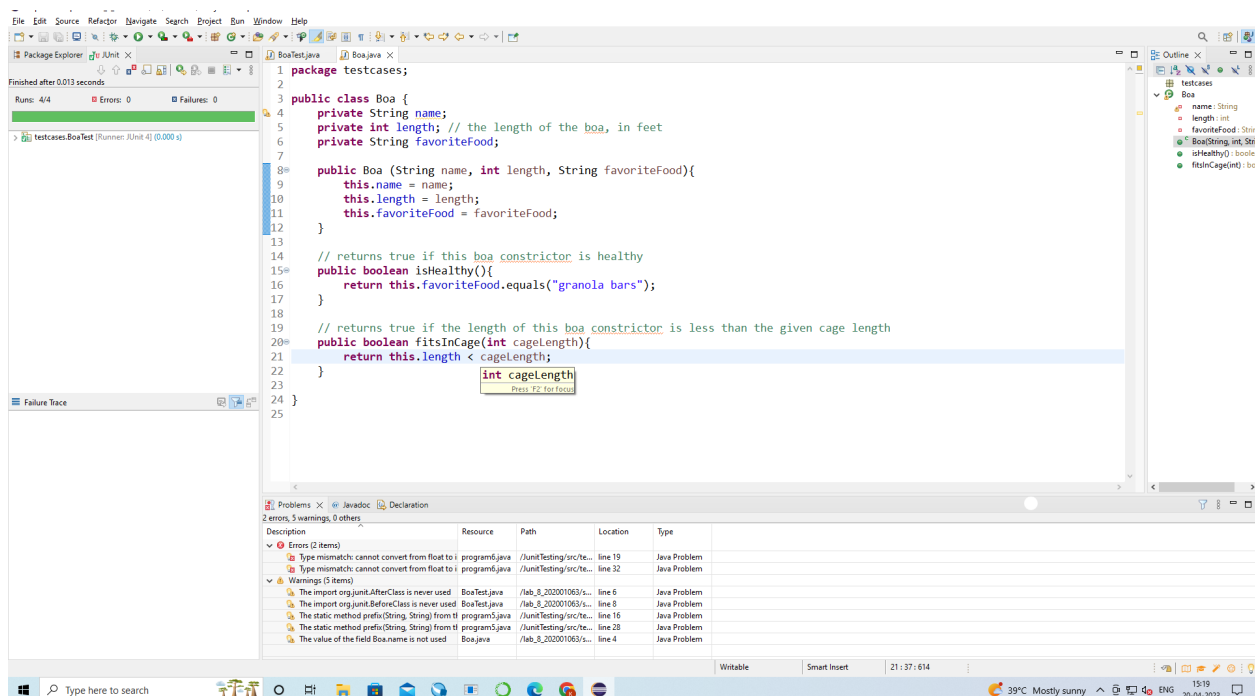
IT314-Software Engineering

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IT314 : Lab-8

Step 1 & 2 : Create a new Eclipse project, and within the project create a package and Created a class for a Boa.



Step 3 : Follow the instructions in the JUnit tutorial in the section “Creating a JUnit Test Case in Eclipse”. You’ll be creating a test case for the class Boa. When you’re asked to select test method stubs, select both isHealthy() and fitsInCage(int).

```
import org.junit.Assert;
import org.junit.Test;
public class BoaTest {

    @Test
    public void testIsHealthy() {
        Boa healthyBoa = new Boa("Lucy", 8, "granola bars");
        Assert.assertTrue(healthyBoa.isHealthy());

        Boa sickBoa = new Boa("Sneaky", 6, "mice");
        Assert.assertFalse(sickBoa.isHealthy());
    }

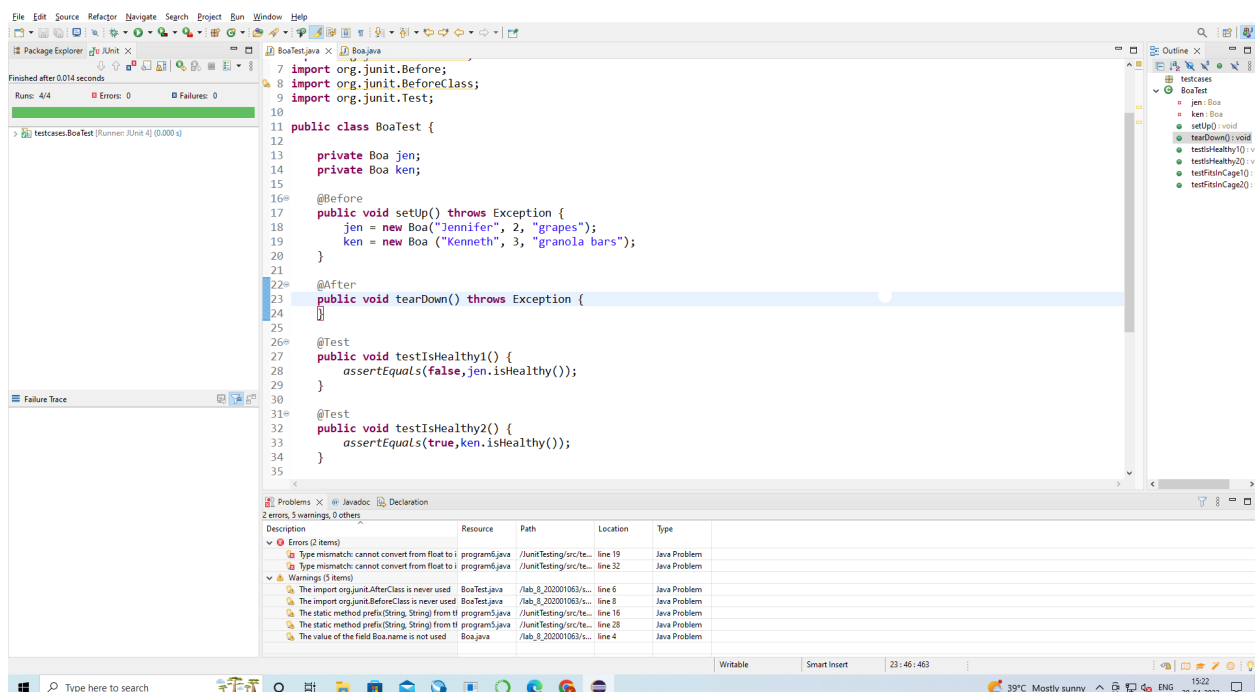
    @Test
    public void testFitsInCage() {
        Boa smallBoa = new Boa("Tiny", 2, "rats");
        Assert.assertTrue(smallBoa.fitsInCage(5));
        Assert.assertFalse(smallBoa.fitsInCage(1));

        Boa largeBoa = new Boa("Goliath", 20, "chicken");
        Assert.assertTrue(largeBoa.fitsInCage(25));
        Assert.assertFalse(largeBoa.fitsInCage(10));
    }
}
```

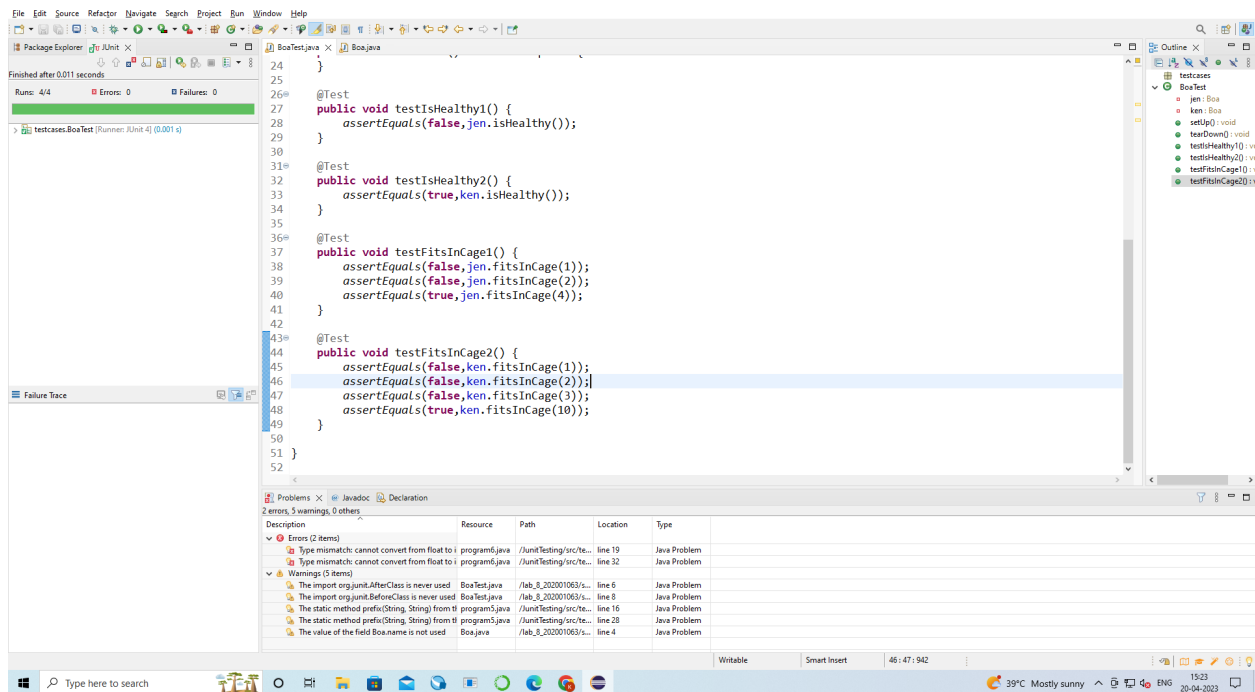
Step 4 : Modify the setUp() method so that it creates a couple of Boa objects, as follows:

```
1 public class BoaTest {
2
3     private Boa jen;
4     private Boa ken;
5
6     @Before
7     public void setUp() throws Exception {
8         jen = new Boa("Jennifer", 2, "grapes");
9         ken = new Boa ("Kenneth", 3, "granola bars");
10    }
11
12    @After
```

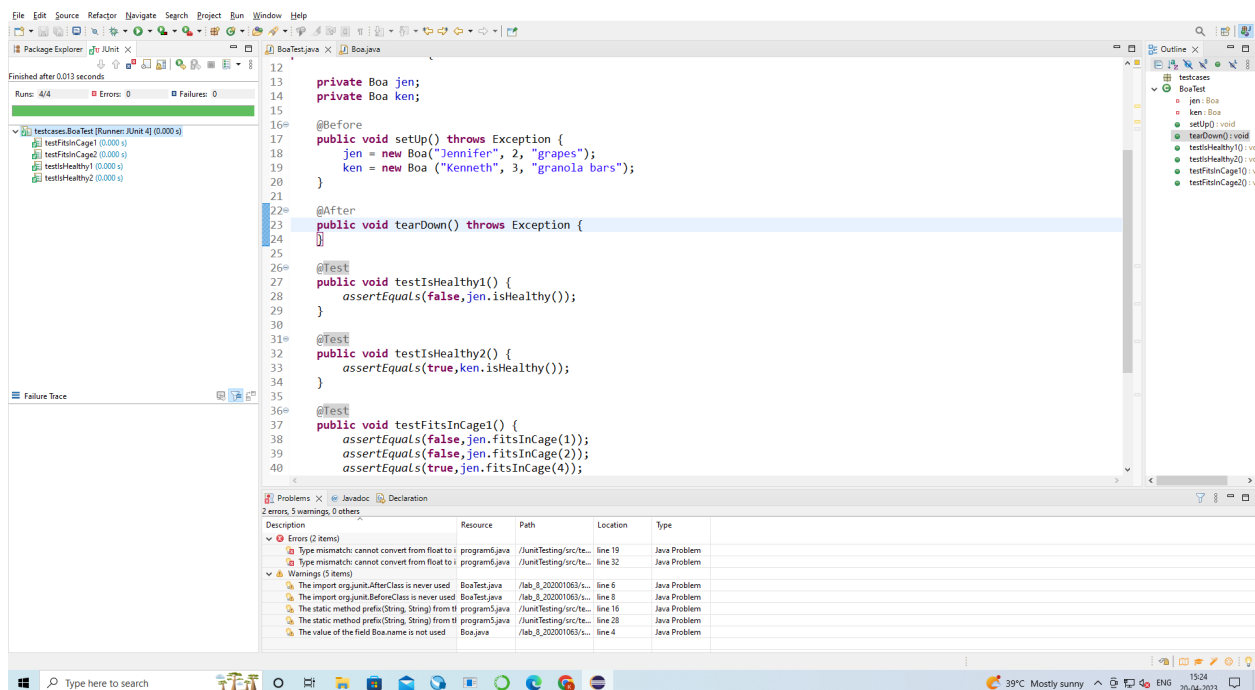
Step 5.1 : Modified testIsHealthy() method in the BoaTest class :



Step 5.2 : Modified testFitsInCage() method in the BoaTest class :



6. Running test cases



7. Here's the modified Boa class with the new lengthInInches() method:

```
public boolean fitsInCage(int cageLength){
    return this.length < cageLength;
}

public int lengthInInches() {
    return this.length * 12;
}
}
```

