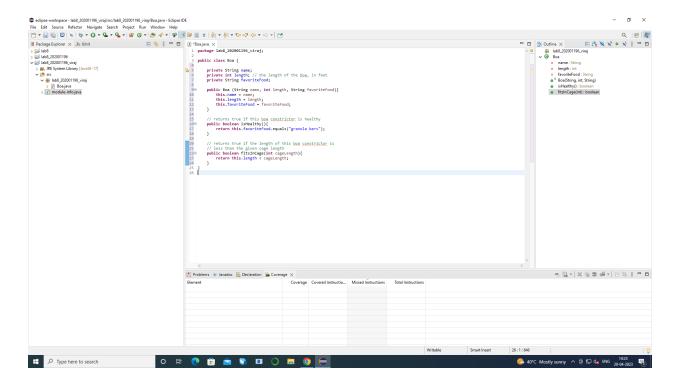
Name : Pansuriya Viraj Dhirajbhai Student Id:202001196

LAB-8

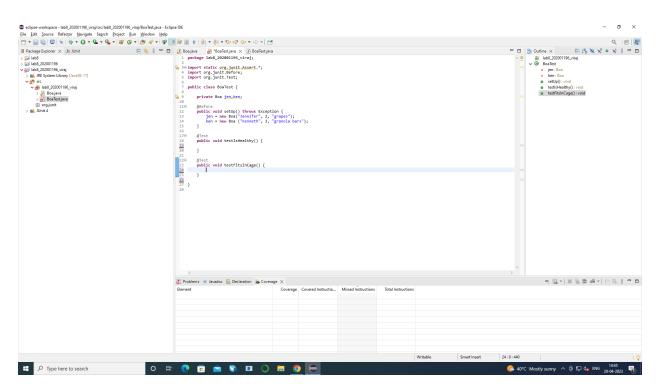
Date:20/04/2023

Course:IT314

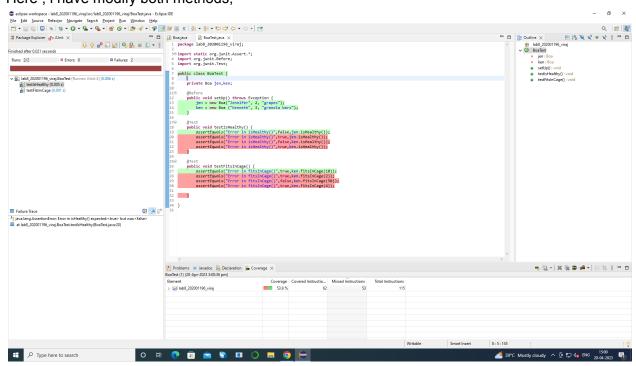
Creating Boa Class:



Creating Boa-test file

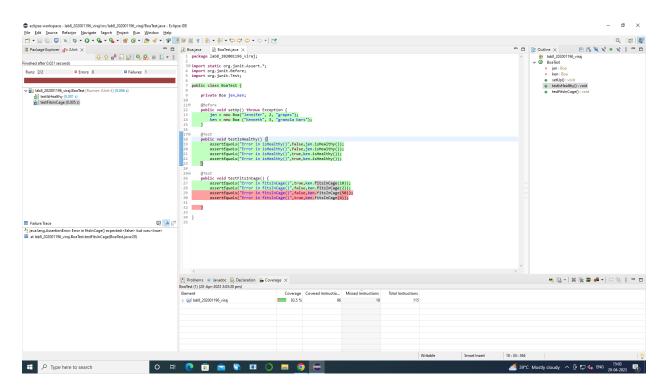


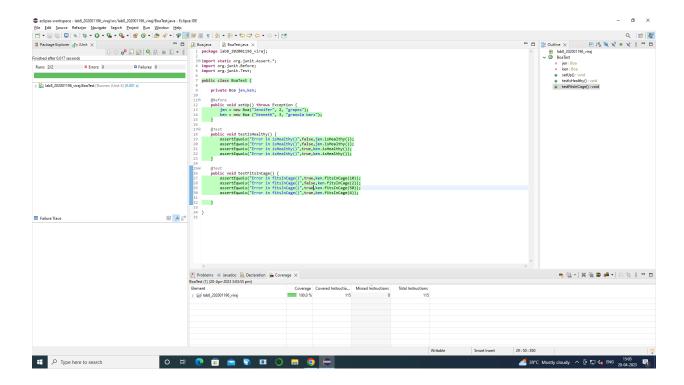
Here, i have modify both methods,



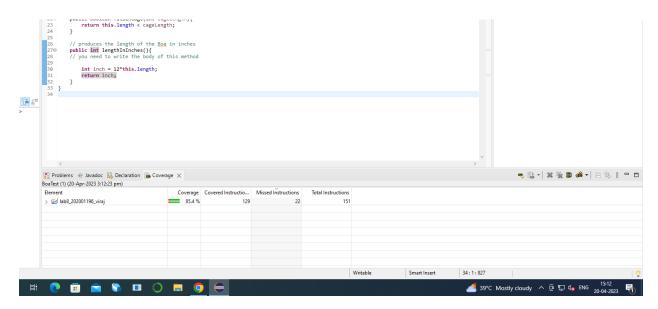
Red line shows that expected output and actual output are not matching. There may be faults in code or in our expected output.

After doing few changes in expected output,

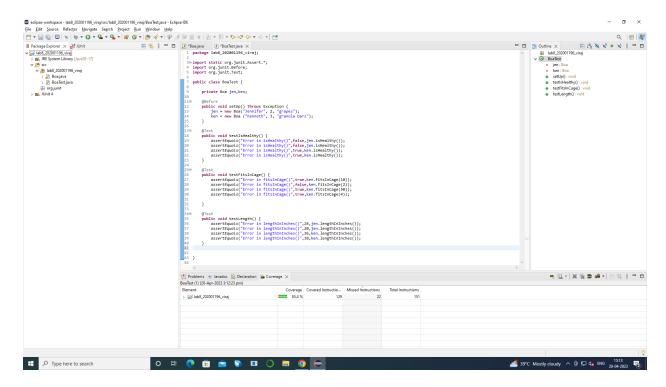




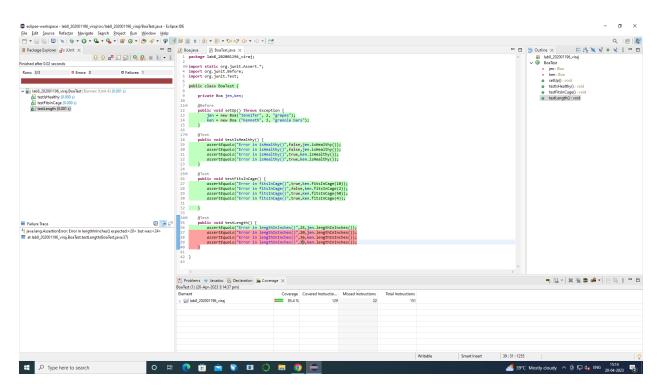
Adding new function to class:



Testing file:

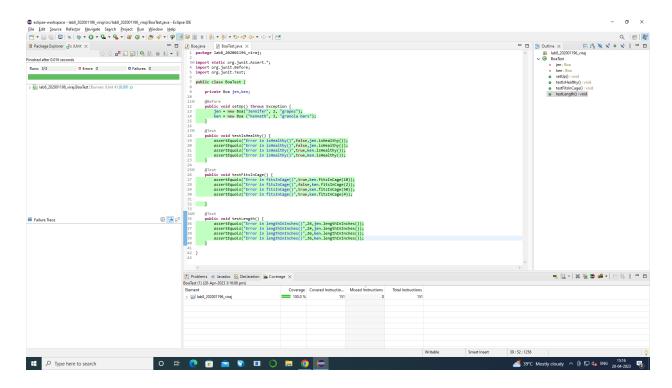


After running:



Same as previous, have to change either expected output OR code,

After changes in expected output,



Code of Boa Class File:

```
package lab8_202001196_viraj;
public class Boa {
        private String name;
        private int length; // the length of the boa, in feet
        private String favoriteFood;
        public Boa (String name, int length, String favoriteFood){
                this.name = name;
                this.length = length;
                this.favoriteFood = favoriteFood;
        }
        // returns true if this boa constrictor is healthy
        public boolean isHealthy(){
                return this.favoriteFood.equals("granola bars");
        }
        // returns true if the length of this boa constrictor is
        // less than the given cage length
        public boolean fitsInCage(int cageLength){
                return this.length < cageLength;</pre>
        }
        // produces the length of the Boa in inches
        public int lengthInInches(){
        // you need to write the body of this method
                int inch = 12*this.length;
                return inch;
        }
}
Code of Testing File:
package lab8_202001196_viraj;
import static org.junit.Assert.*;
import org.junit.Before;
import org.junit.Test;
public class BoaTest {
        private Boa jen,ken;
        @Before
        public void setUp() throws Exception {
```

```
jen = new Boa("Jennifer", 2, "grapes");
                ken = new Boa ("Kenneth", 3, "granola bars");
        }
        @Test
  public void testIsHealthy() {
                assertEquals("Error in isHealthy()",false,jen.isHealthy());
                assertEquals("Error in isHealthy()",false,jen.isHealthy());
                assertEquals("Error in isHealthy()",true,ken.isHealthy());
                assertEquals("Error in isHealthy()",true,ken.isHealthy());
  }
  @Test
  public void testFitsInCage() {
        assertEquals("Error in fitsInCage()",true,ken.fitsInCage(10));
                assertEquals("Error in fitsInCage()",false,ken.fitsInCage(2));
                assertEquals("Error in fitsInCage()",true,ken.fitsInCage(50));
                assertEquals("Error in fitsInCage()",true,ken.fitsInCage(4));
  }
  @Test
        public void testLength() {
                assertEquals("Error in lengthInInches()",24,jen.lengthInInches());
                assertEquals("Error in lengthInInches()",24,jen.lengthInInches());
                assertEquals("Error in lengthInInches()",36,ken.lengthInInches());
                assertEquals("Error in lengthInInches()",36,ken.lengthInInches());
        }
}
```