CODE

For the Given function:

Boa.java

```
package Testing;
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;
               202001108 Lab-8
               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>
       public int lengthInInches()
       // you need to write the body of this method
               return this.length*12;
}
```

BoaTest.java

```
package Testing;
import static org.junit.Assert.*;
import org.junit.Before;
import org.junit.Test;
public class BoaTest {
       private Boa jen;
       private Boa ken;
       @Before
       public void setUp() throws Exception {
              jen = new Boa("Jennifer", 2, "grapes");
              ken = new Boa ("Kenneth", 3, "granola bars");
       }
       @Test
       public void testIsHealthy 1() {
              boolean output = ken.isHealthy();
              assertEquals(output,true);
       }
       @Test
       public void testIsHealthy_2() {
              boolean output = jen.isHealthy();
              assertEquals(output,false);
       }
       @Test
       public void testFitsInCage 1() {
              202001203 Lab-8
              int cage = 4;
              boolean output = jen.fitsInCage(cage);
              assertEquals(output,true);
       }
       @Test
              public void testFitsInCage_2() {
              int cage = 4;
              boolean output = ken.fitsInCage(cage);
              assertEquals(output,true);
       }
```

```
@<u>Test</u>
       public void testFitsInCage_3() {
              int cage = 6;
              boolean output1 = ken.fitsInCage(cage);
              assertEquals(output1,true);
       @Test
       public void testFitsInCage 4() {
              int cage = 2;
              boolean output1 = ken.fitsInCage(cage);
              assertEquals(output1,false);
       @Test
       public void lengthInInches 1() {
              202001203 Lab-8
              int output1 = ken.lengthInInches();
              assertEquals(output1,36);
       }
       @Test
       public void lengthInInches_2() {
              int output1 = jen.lengthInInches();
              assertEquals(output1,24);
}
```

SCREENSHOTS

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                                                                                                                                                                                                                                                                                                                            3*import static org.junit.Assert.*;□
                                                                                                                                                                                                                                                                                                                        8 public class BoaTest {
                                                                                                                                                                                                                                                                                                                                                                      private Boa jen;
private Boa ken;
                                                                                                                                                                                                                                                                                                                                                                      public void setUp() throws Exception {
   jen = new Boa("Jennifer", 2, "grapes");
   ken = new Boa ("Kenneth", 3, "granola bars");
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   boolean output = ken.isHealthy();
   assertEquals(output,true);
                                                                                                                                                                                                                                                                                                                                                                  @Test
public void testIsHealthy_2() {
  boolean output = jen.IsHealthy();
  assertEquals(output,false);
,
                                                                                                                                                                                                                                                                                                                                                                      public void testFitsInCage_1() {
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boolean output = jen.fitsInCage(cage);
assertEquals(output,true);
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