

```
- Navigate to the ReviewAnalyser folder within the 6.3TestingCodeCoverage/src/test/java/com/oktay3min/com/ReviewAnalyzer folder.
    - Open the ReviewAnalyserApplicationTests.java in any text editor.
    -Add the following test method to the file and save it.
     package com.oktay3min.com.ReviewAnalyzer
     import org.junit.Test;
     import static org.junit.Assert.*;
     import\ org. spring framework. boot. test. context. Spring Boot Test;
     @SpringBootTest
     class ReviewAnalyserApplicationTests {
      private ReviewAnalyserApplication analyser = new ReviewAnalyserApplication();
      public void testWordCount() {
         assertEquals(7,analyser.getWordCount("Train to win in the digital economy"));
   - Save the file and exit the text editor
    -Open the pom.xml and add the following dependency.
                   <groupId>junit
                    <artifactId>junit-dep</artifactId>
                    <version>4.8.2
                   <scope>test</scope>
                 </dependency>
    -Add the jacoco plugin to pom.xml with the following xml code:
         <groupId>org.jacoco</groupId>
         <artifactId>jacoco-maven-plugin</artifactId>
         <version>0.8.3</version>
         <executions>
           <execution>
            <id>default-prepare-agent</id>
           <goals>
           <goal>prepare-agent</goal>
</goals>
           </execution>
           <id>default-report</id>
<phase>prepare-package</phase>
           <goals>
              <goal>report</goal>
           </goals>
           </execution>
      </plugin>
    -Save the file and exit the text editor
Step 5: Creating and commuting a Jenkinsfile
    - Navigate to the ReviewAnalyser root directory where the pom.xml is.

    Open nano text editor and create a new text file called Jenkinsfile and add the following script to it.
    sudo nano Jenkinsfile => to create a file called Jenkinsfile using nano text editor

      agent any
         stage("Compile") {
```

```
l>org.jacoco</groupId>
stId>jacoco-maven-plugin</artifactId=
i>0.8.3</version>
d>org.springframework.boot</groupId>
ctId>spring-boot-maven-plugin</artifactId
```

org.junit.Test;
static org.junit.Assert.\*;
org.springframework.boot.test.context.SpringBootTest;

ic void testWordCount() {
 assertEquals(7,analyser.getWordCount("Train to win in the digital econom

```
post {
   always {
    step([$class: 'JacocoPublisher',
        classPattern: 'target/*.exec',
        classPattern: 'target/classe
    sourcePattern: 'src/main/jav
    exclusionPattern: 'src/test*
```

```
oktay3min/com/ReviewAnalyzer/ReviewAnalyzerApplication.java
oktay3min/com/ReviewAnalyzer/ServletInitializer.java
spapiiaciton, properties
skapiiaciton, properties
oktay5min/com/ReviewAnalyzer/ReviewAnalyzerApplicationTests.
JaTwatingCodecowerageS git branch
:-/Galteck_CI_CO/Assignments/6.3lestingLoad.ore/ag/

b)lects: 30, done

oression using up to 4 threads.

19 objects: 180% (19/19), done.

opects: 180% (30/30), 53.46 %18 | 13.36 M1B/s, done.

(delta 0), reused 0 (delta 0)
            :0ktay3min/Assignments.git
h] 6.3TestingCodeCoverage -> 6.3TestingCodeCove
alteck_CI_CD/Assignments/6.3TestingCodeCoverage$
```

```
Step 6: Creating a multistage pipeline in Jenkins
```

steps {
sh "mvn compile"

step([\$class: 'JacocoPublisher', execPattern: 'target/\*.exec', classPattern: 'target/classes', sourcePattern: 'src/main/java', exclusionPattern: 'src/test\*'

- Save the file as Jenkinsfile with no extension.

stage("Unit test") { steps { sh "mvn test"

post {

- Save the file as Jenkinsfile with no extension.

- Commit the changes to the remote SCM.

- Sigt branch 6.3TestingCodeCoverage => this will create a new branch called 6.3TestingCodeCoverage

- Sigt and \_ => to add all files to staging area

- Sigt commit -m "Add logic and test" => to commit changes

- Sigt push -u origin 6.3TestingCodeCoverage => to push the files to remote repository

