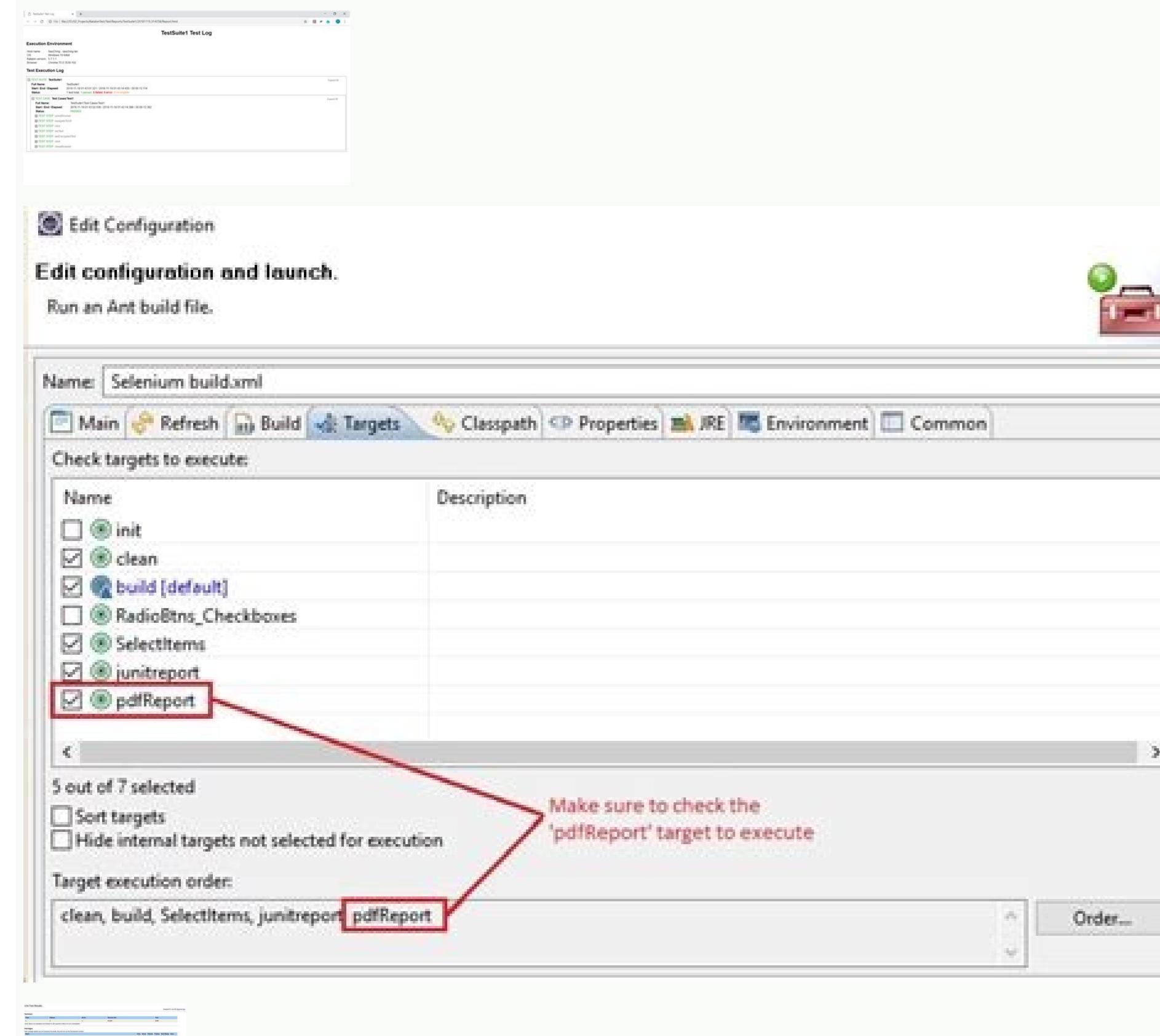
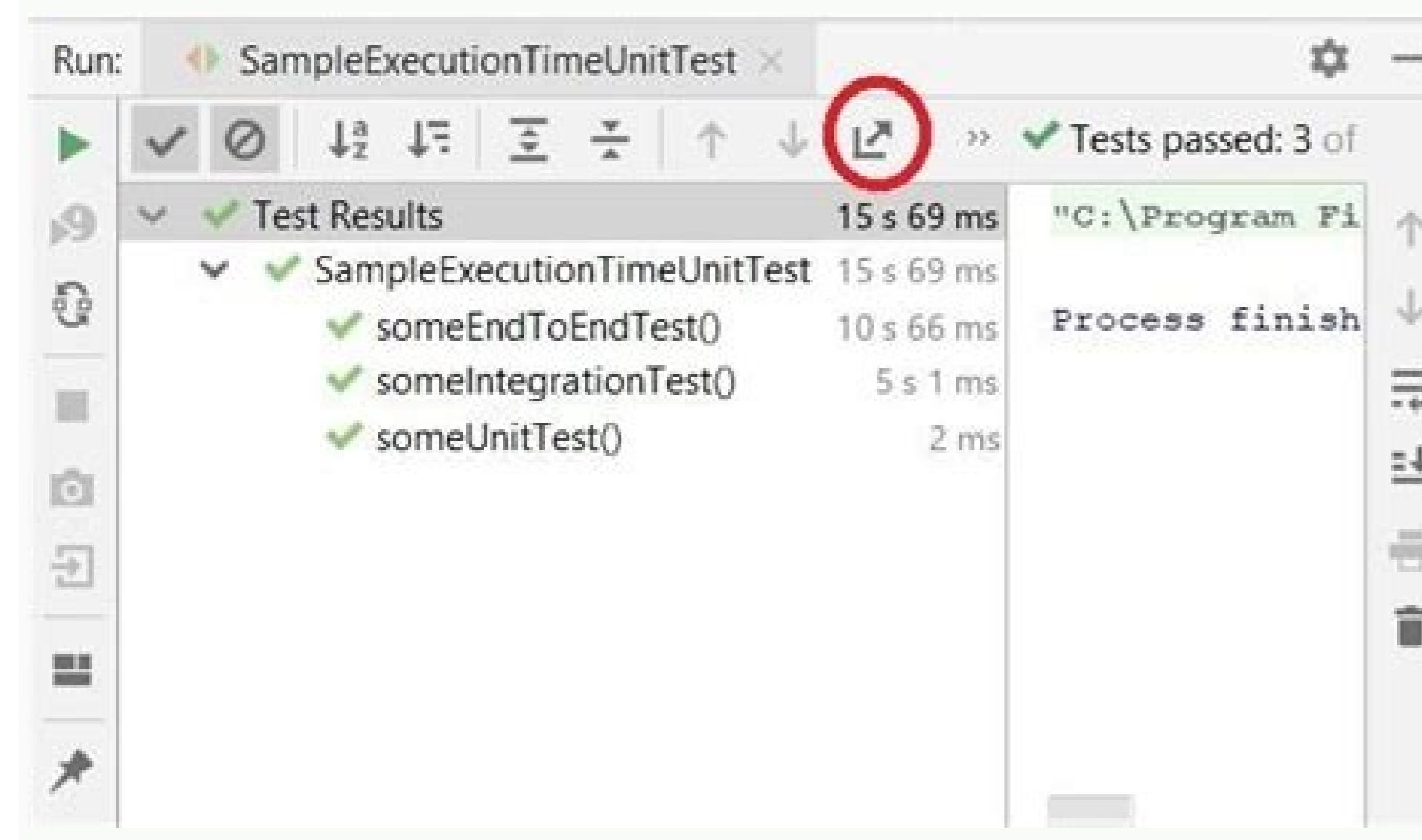
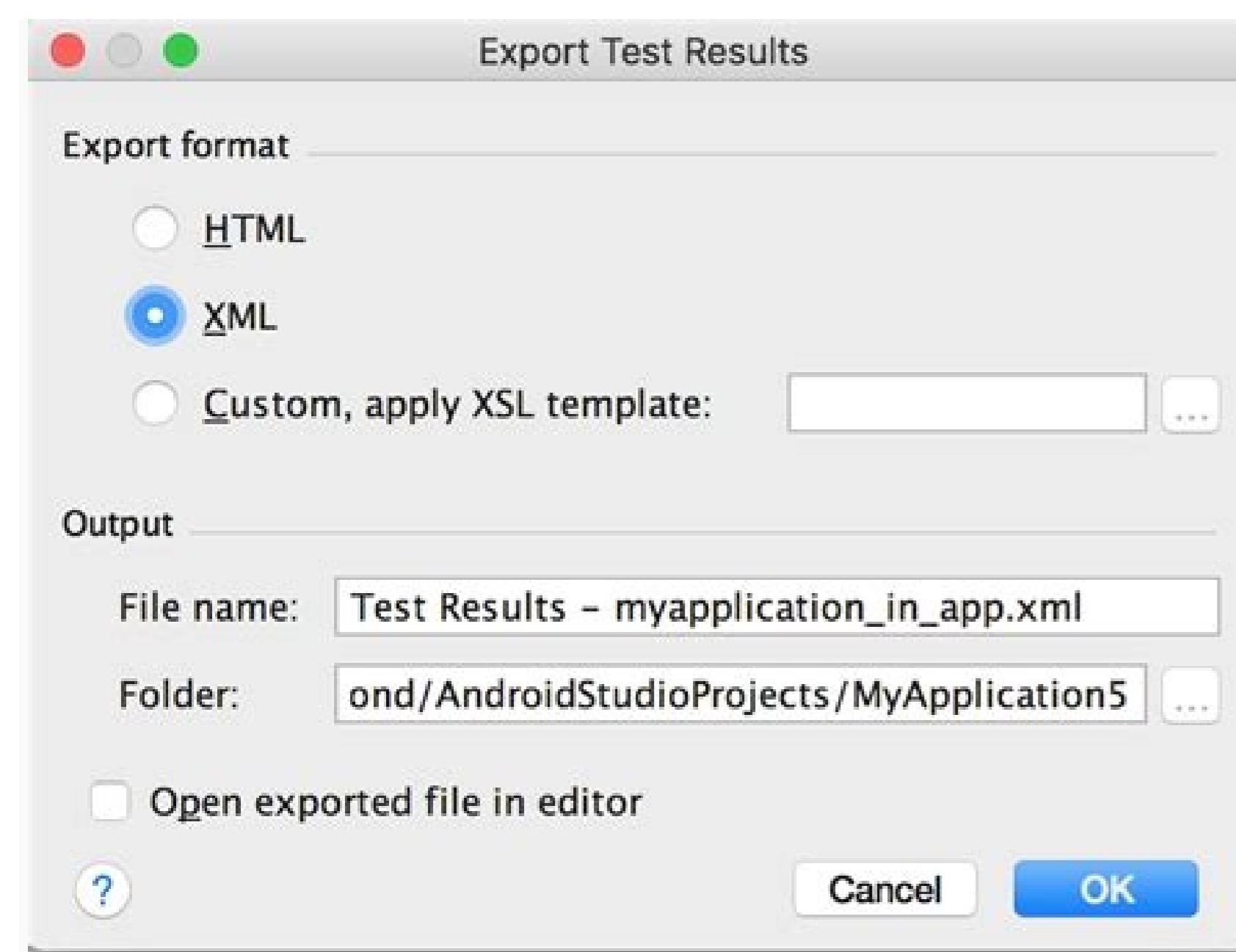


Continue



When we configure maven-surefire-plugin to run our JUnit tests, it generates surefire-reports directory. This directory contains a txt file and an XML file for every test class. However, reading these files is not easy and it's also not easily explainable to a non-techie person. We can use maven-surefire-report-plugin to generate HTML based reports for our JUnit tests. This report can be exported and shared with the team. It's also an easy way to understand how your tests went through, especially when you integrate them with CI tools like Jenkins. There are two steps to generate JUnit HTML report from our maven project. Add maven-surefire-report-plugin to pom.xml reporting element.

org.apache.maven.plugins maven-surefire-report-plugin 2.22.0 Run mvn site command from the terminal. It will generate HTML reports in target/site directory. Open the surefire-report.html file in the browser. You will get an output like below image, it's from my JUnit Examples project. Some of the useful information we get from JUnit HTML report are: Test Packages and Classes Test Methods names from specific classes Failure tests or skipped tests with reason Execution time taken by each method TestNG supports built-in HTML report generation whereas JUnit HTML reports are generated by maven surefire plugin and we have to execute an additional command for it. However, JUnit HTML reports look much better when compared to TestNG HTML reports. Join our DigitalOcean community of over a million developers for free! Get help and share knowledge in our Questions & Answers section, find tutorials and tools that will help you grow as a developer and scale your project or business, and subscribe to topics of interest.Sign up In our previous article, we configured and ran TestNG tests, and one of things which we saw which came with TestNG was that it generated a Webpage based report which we could use for better understanding and insights of our tests, that it executes. But, the same HTML report is not available to us when we run the Junit tests by default.In this article, we will see how we can generate a HTML report to get the same understanding and insights for our Junit tests.Below is the video with the Demo to generate HTML report for Junit tests using Maven Surefire Report Plugin.To have a report for Junit tests, we need a project which has Junit tests. You can use any of your projects or use the previous ones that we created in our Unit Testing with Maven - Junit4 or Unit Testing with Maven - Junit 5 articles.Or, you can also use my project, code-challenges-java that I have for writing Java code for various coding platforms. There are a lot of tests in various packages, so the report generated will have some realistic data to play with.Let's take a look at the pom.xml that I have.

```
4.0.0 io.codejournal.code-challenges code-challenges-java 1.0 code-challenges-java UTF-8 11 11 org.projectlombok lombok 1.18.20 provided org.junit.jupiter:jupiter-api 5.8.0-M1 test org.assertj:assertj-core 3.19.0 test org.apache.maven.plugins maven-site-plugin 3.9.1 org.apache.maven.plugins maven-surefire-report-plugin 3.0.0-M5 Time to run, and see the generated HTML report.>Generate the Project site and JUnit HTML Reports []To generate the project site and the JUnit HTML report, we need to run the lifecycle - site, apart from running the default lifecycle.Nothing complicated. Simply, run - mvn clean test site -> mvn clean test site [INFO] Scanning for projects... [INFO] [INFO] -----< io.codejournal.code-challenges:code-challenges-java >----- [INFO] Building code-challenges-java 1.0 [INFO] -----[ jar ]----- [INFO] [INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ code-challenges-java --- [INFO] Deleting /home/codejournal/workspace/code-challenges-java/target [INFO] [INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ code-challenges-java --- [INFO] Using 'UTF-8' encoding to copy filtered resources. [INFO] skip non existing resourceDirectory /home/codejournal/workspace/code-challenges-java/src/main/resources [INFO] [INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ code-challenges-java --- [INFO] Changes detected - recompiling the module! [INFO] Compiling 188 source files to /home/codejournal/workspace/code-challenges-java/target/classes [INFO] [INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ code-challenges-java --- [INFO] Using 'UTF-8' encoding to copy filtered resources. [INFO] skip non existing resourceDirectory /home/codejournal/workspace/code-challenges-java/src/test/resources [INFO] [INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ code-challenges-java --- [INFO] Changes detected - recompiling the module! [INFO] Compiling 188 source files to /home/codejournal/workspace/code-challenges-java/target/test-classes [INFO] [INFO] --- maven-surefire-plugin:3.0.0-M5:test (default-test) @ code-challenges-java --- [INFO] [INFO] ----- [INFO] T E S T S [INFO] ----- [INFO] Running io.codejournal.java.codingbat.array1.MakeLastTest [INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.232 s - in io.codejournal.java.codingbat.array1.MakeLastTest ... [INFO] Running io.codejournal.hackerrank.thirtydaysofcode.Day07ArraysTest [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.005 s - in io.codejournal.hackerrank.thirtydaysofcode.Day07ArraysTest [INFO] Running io.codejournal.hackerrank.thirtydaysofcode.Day13AbstractClassesTest [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 s - in io.codejournal.hackerrank.thirtydaysofcode.Day13AbstractClassesTest [INFO] [INFO] Results: [INFO] [WARNING] Tests run: 1005, Failures: 0, Errors: 0, Skipped: 1 [INFO] [INFO] --- maven-site-plugin:3.9.1:site (default-site) @ code-challenges-java --- [INFO] configuring report plugin org.apache.maven.plugins:maven-surefire-report-plugin:3.0.0-M5 [INFO] preparing maven-surefire-report:report requires '[surefire]test' forked phase execution [INFO] [INFO] >>> maven-surefire-report-plugin:3.0.0-M5:report > [surefire]test @ code-challenges-java >>> [INFO] [INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ code-challenges-java --- [INFO] Using 'UTF-8' encoding to copy filtered resources. [INFO] skip non existing resourceDirectory /home/codejournal/workspace/code-challenges-java/src/main/resources [INFO] [INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ code-challenges-java --- [INFO] Nothing to compile - all classes are up to date [INFO] [INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ code-challenges-java --- [INFO] Using 'UTF-8' encoding to copy filtered resources. [INFO] skip non existing resourceDirectory /home/codejournal/workspace/code-challenges-java/src/test/resources [INFO] [INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ code-challenges-java --- [INFO] Nothing to compile - all classes are up to date [INFO] [INFO] --- maven-surefire-plugin:3.0.0-M5:test (default-test) @ code-challenges-java --- [INFO] Skipping execution of surefire because it has already been run for this configuration [INFO] [INFO]
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