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UNIVERSITY OF PETROLEUM & ENERGY STUDIES

College of Engineering Studies

Dehradun

LAB FILE

Programme : B. Tech in Computer Science and Engineering with

Specialization in DevOps

Course : Build and Release Management Lab

No. of credits: 1

Semester

Session : Jan-May 2020

: IV

Batch : 2018-2022

Faculty : Dr. Hitesh Kumar Sharma

Submitted By:

Roll No R171218016

Name Aman Kumar hupta

Faculty Signature

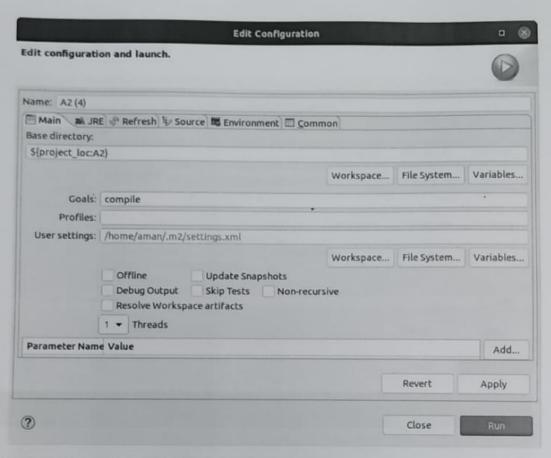
Aim:

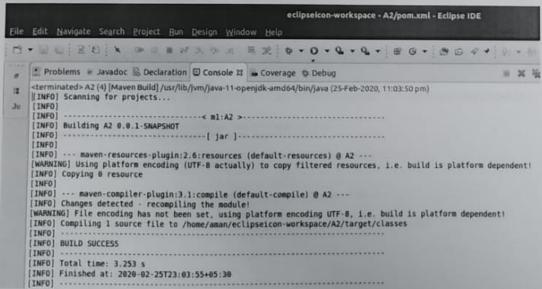
- 1. Create a Java Project using Maven.
- 2. Run the following maven goals on the project:
 - Clean
 - Compile
 - · Test-Compile
 - Install

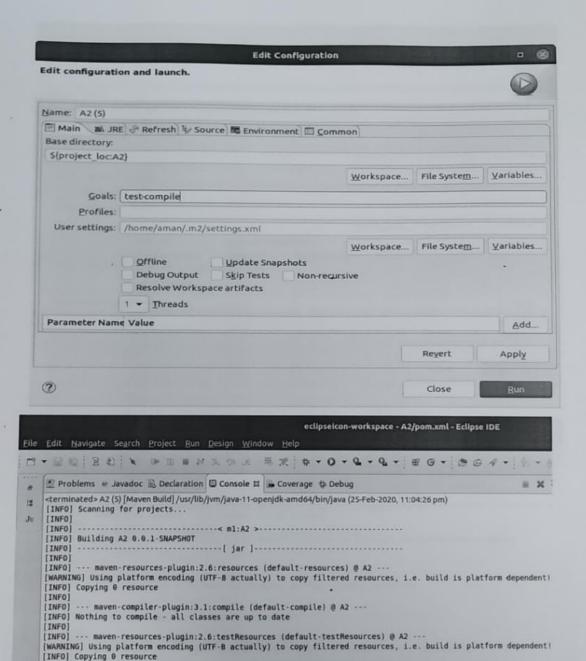


```
*pom.xml
                                           Save
               -/old/backup/h/StudyMaterial/2ndYear/Buil..
www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://
maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/
maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>m1</groupId>
  <artifactId>A2</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  properties>
  <maven.compiler.source>1.6</maven.compiler.source>
  <maven.compiler.target>1.6</maven.compiler.target>
 </properties>
</project>
```

```
*pom.xml
                                           Save
               -/old/backup/h/StudyMaterial/2ndYear/Buil..
www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://
maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/
maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>m1</groupId>
  <artifactId>A2</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  properties>
  <maven.compiler.source>1.6</maven.compiler.source>
  <maven.compiler.target>1.6</maven.compiler.target>
 </properties>
</project>
```







[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ A2 --[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding UTF-8, i.e. build is platform dependent!
[INFO] Compiling 1 source file to /home/aman/eclipseicon-workspace/A2/target/test-classes

[INFO]

[INFO]

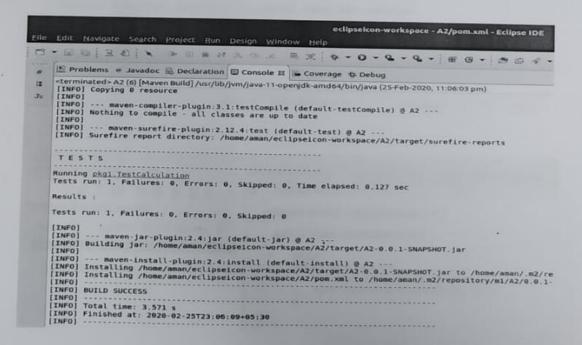
[INFO]

[INFO] BUILD SUCCESS

[INFO] Total time: 2.606 s

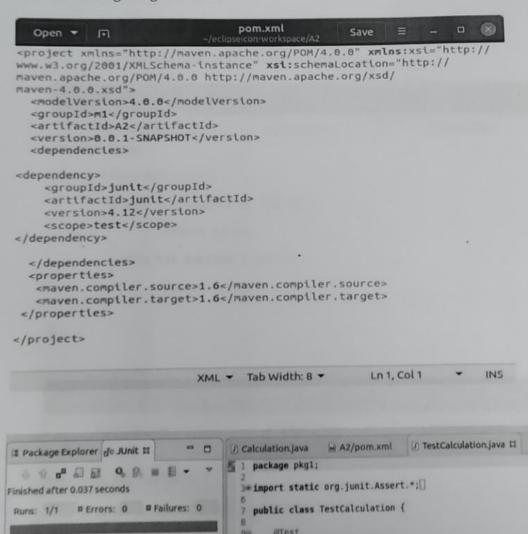
[INFO] Finished at: 2020-02-25T23:04:31+05:30

		Edit Configuration	1		0 (
Edit configuration	on and launch.	1.000	-		0
Name: A2 (6)					
	E Refresh 4 Sc	ource 👼 Environment 🖂 Çom	mon		
S[project_loc:A	2}				
			Workspace	File System	Variables
Goals:	install				
Profiles:					
User settings:	/home/aman/.m2/settings.xml				
			Workspace	File System	Variables
	Offline Debug Output Resolve Works 1 • Threads	Update Snapshots Skip Tests Non-recur bace artifacts	rsive		
Parameter Name	e Value				Add
		•		Reyert	Apply
?)				et a constant	
				Close	Run



Aim: Unit Testing using Junit tool

▶ Bi pkg1.TestCalculation [Runner: JUnit 4] (0.002



11

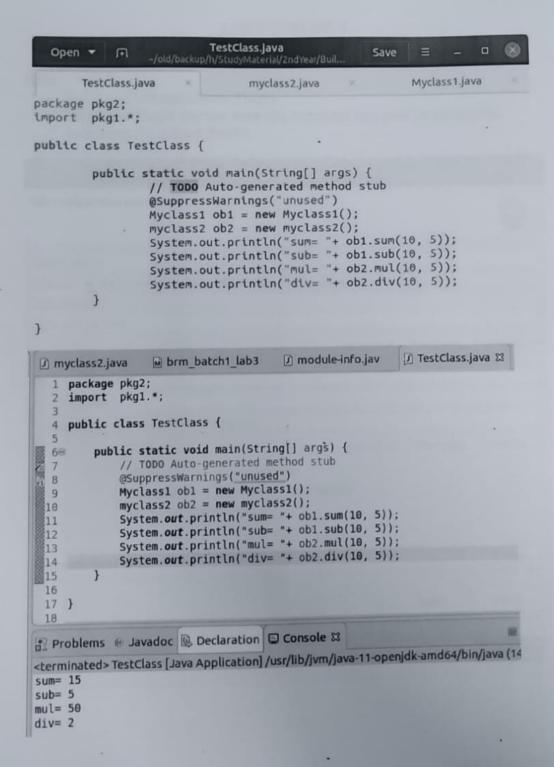
public void test() {

Calculation ob= new Calculation(); .

assertEquals(50,ob.multiply(5, 10));

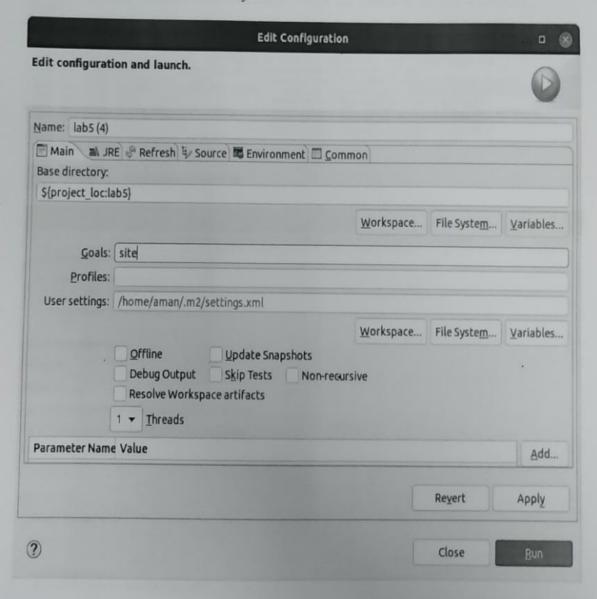
Aim: Maven Build and usage in other Java Project

- 1. Create a Build of java project using maven.
- 2. Use that build in some other Java Project.



Aim:

- 1. Install and Manage Maven Plugin
- 2. Install Site Plugin and use **mvn** site command and goal for generating documents for Maven Project.



```
② Problems 

# Javadoc 

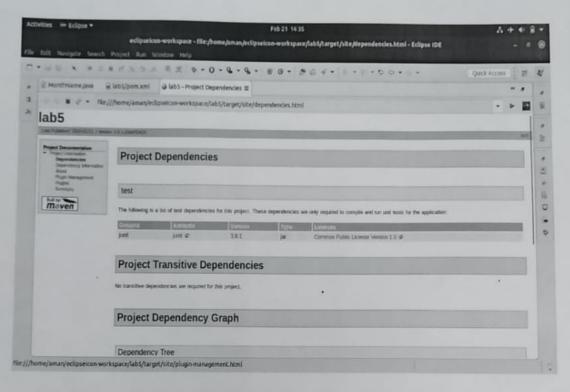
© Declaration 

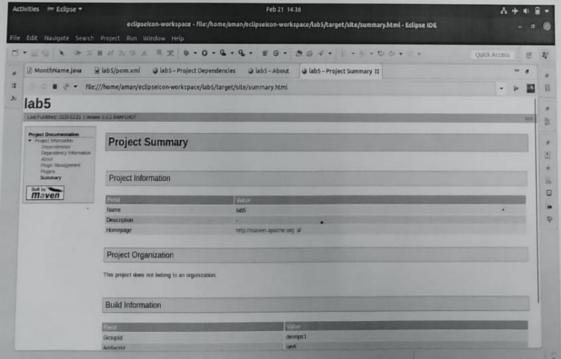
□ Console 

□ Coverage 

□ Debug

      <terminated> lab5 (3) [Maven Build] /usr/lib/jvm/java-11-open/dk-amd64/bin/java (25-Feb-2020, 11:37:31 pm)
                                                                                                                                           = × %
      [INFO] Scanning for projects...
      [INFO]
      [INFO]
                                              ----< devops1:lab5 >----
      [INFO] Building lab5 0.0.1-SNAPSHOT
      [INFO]
                                                 ---- | jar |----
      [INFO]
      [INFO]
                   maven-site-plugin:3.7.1:site (default-site) @ lab5 --
      WARNING] Report plugin org.apache.maven.plugins:maven.project-info-reports-plugin has an empty version.
     [MARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
     [MARNING] For this reason, future Maven versions might no longer support building such malformed projects.
[INFO] configuring report plugin org.apache.maven.plugins:maven.project-info-reports-plugin:3.0.0
[INFO] 15 reports detected for maven-project-info-reports-plugin:3.0.0: ci-management, dependencies, dependency-info
    [INFO] Relativizing decoration links with respect to localized project URL: http://maven.apache.org
    [INFO] Rendering content with org.apache.maven.skins:maven-default-skin:jar:1.2 skin.
   [INFO] Rendering content with org.apache.maven.skins:maven-default-skin:jar:1.2 skin.
[INFO] Generating "Dependencies" report ... maven-project-info-reports-plugin:3.0.0:dependencies
[INFO] Generating "Dependency Information" report ... maven-project-info-reports-plugin:3.0.0:dependency-info
[INFO] Generating "About" report ... maven-project-info-reports-plugin:3.0.0:jdependency-info
maven-project-info-reports-plugin:3.0.0:plugin-management
[INFO] Generating "Plugins" report ... maven-project-info-reports-plugin:3.0.0:plugins maven-project-info-reports-plugin:3.0.0:summary
[INFO] Generating "Summary" report ... maven-project-info-reports-plugin:3.0.0:summary
    [INFO] BUILD SUCCESS
    [INFO]
    [INFO] Total time: 7.511 s
    [INFO] Finished at: 2020-02-25T23:37:40+05:30
   [INFO] -----
    <modelVersion>4.0.0</modelVersion>
     <groupId>devops1</groupId>
     <artifactId>lab5</artifactId>
     <version>0.0.1-SNAPSHOT</version>
     <packaging>jar</packaging>
     <bulld>
  <pluginManagement>
  <plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-site-plugin</artifactId>
 <version>3.7.1</version>
</plugin>
</plugins>
</pluginManagement>
</build>
  <name>lab5</name>
  <url>http://maven.apache.org</url>
    </properties>
```





Aim: Working with Maven Repository

- 1. Add Central Repository (Hibernate)
- 2. Add Remote Repository (Atlassian Mail)

```
<modelVersion>4.0.0</modelVersion>
2
    <groupId>upes.devops</groupId>
3
    <artifactId>BRM Remote</artifactId>
    <version>0.0.1-SNAPSHOT</version>
5
6
7⊖ <dependencies>
8⊖ <dependency>
      <groupId>org.hibernate/groupId>
      <artifactId>hibernate-core</artifactId>
10
      <version>5.4.14.Final
11
L2 </dependency>
13
L40 <dependency>
      <groupId>com.atlassian.mail
15
      <artifactId>atlassian-mail</artifactId>
16
      <version>4.0.6</version>
17
18 </dependency>
19
20 </dependencies>
21⊖ <repositories>
220 < repository>
23 <id>atlassian</id>
24 <name>Atlassian Mail </name>
25 <url>https://maven.atlassian.com/content/repositories/atlassian-public/ </url>
26 </repository>
27 k/repositories>
18
```


hibernate-core-5.4.14.Final.jar - C:\Users\Lenovo\.m2\repository\org\hi jboss-logging-3.3.2.Final.jar - C:\Users\Lenovo\.m2\repository\org\jbos javax.persistence-api-2.2.jar - C:\Users\Lenovo\.m2\repository\javax\pe javassist-3,24.0-GA.jar - C:\Users\Lenovo\.m2\repository\org\javassist\j. byte-buddy-1.10.7.jar - C:\Users\Lenovo\.m2\repository\net\bytebuddy antlr-2.7.7.jar - C:\Users\Lenovo\.m2\repository\antlr\antlr\2.7.7 jboss-transaction-api_1.2_spec-1.1.1.Final.jar - C:\Users\Lenovo\.m2\reg jandex-2.1.1.Final.jar - C:\Users\Lenovo\.m2\repository\org\jboss\jande classmate-1.5.1.jar - C:\Users\Lenovo\.m2\repository\com\fasterxml\cljavax.activation-api-1.2.0.jar - C:\Users\Lenovo\.m2\repository\javax\ac dom4j-2.1.1.jar - C:\Users\Lenovo\.m2\repository\org\dom4j\dom4j\2. hibernate-commons-annotations-5.1.0.Final.jar - C:\Users\Lenovo\.m2\ jaxb-api-2.3.1.jar - C:\Users\Lenovo\.m2\repository\javax\xml\bind\jax jaxb-runtime-2.3.1.jar - C:\Users\Lenovo\.m2\repository\org\glassfish\j txw2-2.3.1.jar - C:\Users\Lenovo\.m2\repository\org\glassfish\jaxb\txw. istack-commons-runtime-3.0.7.jar - C:\Users\Lenovo\.m2\repository\cc stax-ex-1.8.jar - C:\Users\Lenovo\.m2\repository\org\jvnet\staxex\stax-FastInfoset-1.2.15.jar - C:\Users\Lenovo\.m2\repository\com\sun\xml\f atlassian-mail-4.0.6.jar - C:\Users\Lenovo\.m2\repository\com\atlassian commons-beanutils-1.6.1.jar - C:\Users\Lenovo\.m2\repository\common commons-collections-3.1.jar - C:\Users\Lenovo\.m2\repository\common commons-digester-1.4.1.jar - C:\Users\Lenovo\.m2\repository\common xml-apis-1.0.b2.jar - C:\Users\Lenovo\.m2\repository\xml-apis\xml-api Tommons-lang-2.4.jar - C:\Users\Lenovo\.m2\repository\commons-lar Tommons-logging-1.0.4.jar - C:\Users\Lenovo\.m2\repository\common commons-io-1.4.jar - C:\Users\Lenovo\.m2\repository\commons-io\cc javax.mail-api-1.5.6.jar - C:\Users\Lenovo\.m2\repository\javax\mail\jav javax.mail-1.5.6.jar - C:\Users\Lenovo\.m2\repository\com\sun\mail\jav activation-1.1.jar - C:\Users\Lenovo\.m2\repository\javax\activation\alignation\activ slf4j-api-1.7.22.jar - C:\Users\Lenovo\.m2\repository\org\slf4j\slf4j-api\ log4j-1.2.7.jar - C:\Users\Lenovo\.m2\repository\log4j\log4j\1.2.7 guava-18.0.jar - C:\Users\Lenovo\.m2\repository\com\google\guava\g jsoup-1.8.3.jar - C:\Users\Lenovo\.m2\repository\org\jsoup\jsoup\1.8.3

Lab Exercise 6

Aim: Create a simple Maven Project using CLI.

```
aman@amanlaptop: ~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app
aman@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6$ mvn archetype:generate -Dgr
oupId=com.mycompany.app -DartifactId=my-app -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -Di
nteractiveMode=false
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
.
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-site-plugin/3.3/maven-sit
e-plugin-3.3.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-site-plugin/3.3/maven-site
-plugin-3.3.pom (21 kB at 6.9 \text{ kB/s})
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.3/maven-a
ntrun-plugin-1.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.3/maven-an
trun-plugin-1.3.jar (24 kB at 42 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-assembly-plugin/2.2-beta-5/maven-assembly-plugin-2.2-beta-5.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-assembly-plugin/2.2-beta-5/maven-assembly-plugin-2.2-beta-5.jar (209 kB at 145 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/mav
```

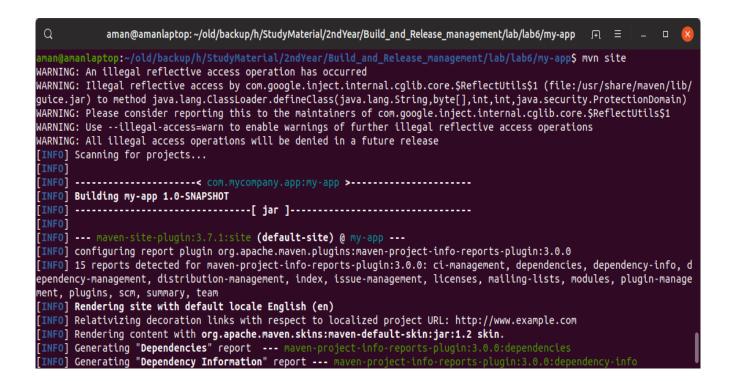
```
Q
          aman@amanlaptop: ~/old/backup/h/StudyMaterial/2ndYear/Build and Release management/lab/lab6/my-app 🕟 🖃 📁 🗆
[INFO] -----[ jar ]-----
[INFO] --- maven-site-plugin:3.7.1:site (default-site) @ my-app ---
[INFO] configuring report plugin org.apache.maven.plugins:maven-project-info-reports-plugin:3.0.0
[INFO] 15 reports detected for maven-project-info-reports-plugin:3.0.0: ci-management, dependencies, dependency-info, d
ependency-management, distribution-management, index, issue-management, licenses, mailing-lists, modules, plugin-manage
ment, plugins, scm, summary, team
[INFO] Rendering site with default locale English (en)
[INFO] Relativizing decoration links with respect to localized project URL: http://www.example.com
[INFO] Rendering content with org.apache.maven.skins:maven-default-skin:jar:1.2 skin.
[INFO] Generating "Dependencies" report --- maven-project-info-reports-plugin: 3.0.0:dependencies
[INFO] Generating "Dependency Information" report --- maven-project-info-reports-plugin: 3.0.0:dependency-info
[INFO] Generating "About" report --- maven-project-info-reports-plugin:3.0.0:index
[INFO] BUILD SUCCESS
[INFO] Total time: 13.840 s
[INFO] Finished at: 2020-04-01T11:10:13+05:30
man@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/Build and Release management/lab/lab6/my-app$
```

```
Q
           aman@amanlaptop: ~/old/backup/h/StudyMaterial/2ndYear/Build and Release management/lab/lab6/my-app 🙃 😑 📁
[INFO] Using following parameters for creating project from Archetype: maven-archetype-quickstart:1.4
[INFO] Parameter: groupId, Value: com.mycompany.app
[INFO] Parameter: artifactId, Value: my-app
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.mycompany.app
[INFO] Parameter: packageInPathFormat, Value: com/mycompany/app
[INFO] Parameter: package, Value: com.mycompany.app
[INFO] Parameter: groupId, Value: com.mycompany.app
[INFO] Parameter: artifactId, Value: my-app
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: /home/aman/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_managemen
t/lab/lab6/my-app
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:00 min
[INFO] Finished at: 2020-04-01T10:59:47+05:30
aman@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6$_cd_my-app/
man@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/Build and Release management/lab/lab6/my-app$ ls
...man@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app$ cd
```

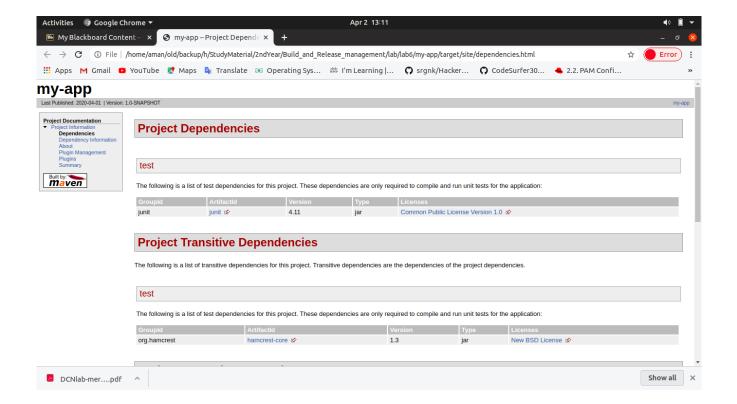
```
aman@amanlaptop: ~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app
 man@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app$ mvn package
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/
guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
               aman@amanlaptop: ~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app 📭 🗏
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.108 s - in com.mycompany.app.AppTest
 INFO]
[INFO] Results:
 INFO]
INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
 INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ my-app ---
Downloading from central: <a href="https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-s">https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-s</a>
hared-utils-3.0.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-sh
ared-utils-3.0.1.jar (154 kB at 198 kB/s)
[INFO] Building jar: /home/aman/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app/target/
my-app-1.0-SNAPSHOT.jar
[INFO] -----[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 42.319 s
[INFO] Finished at: 2020-04-01T11:05:49+05:30
[INFO] -----
 man@amanlaptop:~/old/backup/h/studyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app$ java -cp target/my-a
```

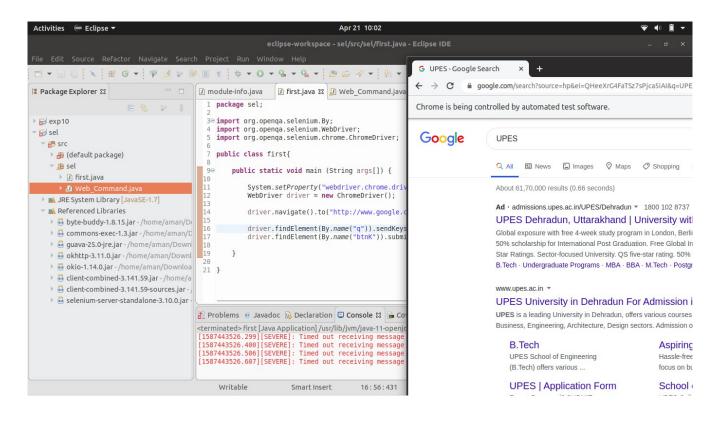
```
aman@amanlaptop: ~/old/backup/h/StudyMaterial/2ndYear/Build and Release management/lab/lab6/my-app
[INFO]
INFO]
[INFO]
      TESTS
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.102 s - in com.mycompany.app.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ my-app ---
[INFO] Building jar: /home/aman/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app/target/
my-app-1.0-SNAPSHOT.jar
[INFO] -----[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:03 min
[INFO] Finished at: 2020-04-01T11:08:04+05:30
man@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app$ mvn site
WARNING: An illegal reflective access operation has occurred
```

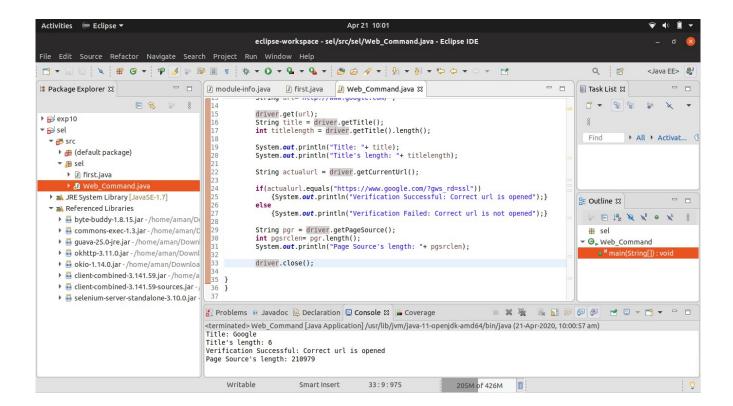
```
aman@amanlaptop: ~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app 🙃 😑 🗀
[INFO] Total time: 42.319 s
[INFO] Finished at: 2020-04-01T11:05:49+05:30
aman@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app$ java -cp target/my-a
pp-1.0-SNAPSHOT.jar com.mycompany.app.AppHello World!
 man@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app$ mvn_clean_dependency
:copy-dependencies package
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/
guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-
clean-plugin-3.1.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-c
lean-plugin-3.1.0.pom (5.2 kB at 2.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-
clean-plugin-3.1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-c
lean-plugin-3.1.0.jar (30 kB at 40 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.5.2/mave
```



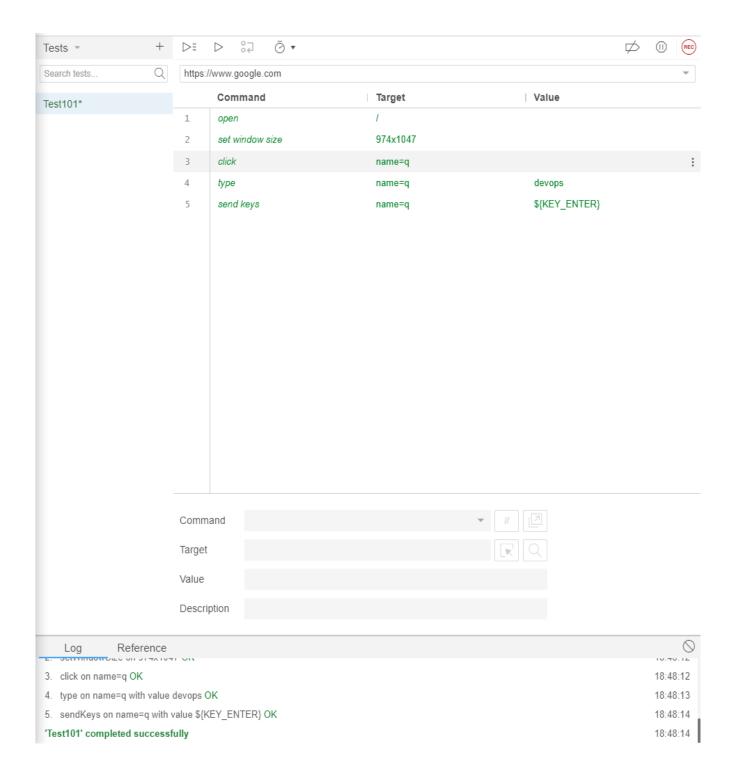
```
Q
           aman@amanlaptop: ~/old/backup/h/StudyMaterial/2ndYear/Build_and_Release_management/lab/lab6/my-app 🗔 🗐 😑 📙
INFO] ----- com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----[
[INFO]
[INFO] --- maven-site-plugin:3.7.1:site (default-site) @ my-app ---
INFO] configuring report plugin org.apache.maven.plugins:maven-project-info-reports-plugin:3.0.0
[INFO] 15 reports detected for maven-project-info-reports-plugin:3.0.0: ci-management, dependencies, dependency-info, d
ependency-management, distribution-management, index, issue-management, licenses, mailing-lists, modules, plugin-manage
ment, plugins, scm, summary, team
[INFO] Rendering site with default locale English (en)
[INFO] Relativizing decoration links with respect to localized project URL: http://www.example.com
[INFO] Rendering content with org.apache.maven.skins:maven-default-skin:jar:1.2 skin.
[INFO] Generating "Dependencies" report --- maven-project-info-reports-plugin: 3.0.0: dependencies
[INFO] Generating "Dependency Information" report --- maven-project-info-reports-plugin: 3.0.0:dependency-info
[INFO] Generating "About" report
                                  --- maven-project-info-reports-plugin:3.0.0:index
[INFO] Generating "Plugin Management" report --- maven-project-info-reports-plugin:3.0.0:plugin-management
[INFO] Generating "Plugins" report --- maven-project-info-reports-plugin:3.0.0:plugins
[INFO] Generating "Summary" report
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 13.840 s
[INFO] Finished at: 2020-04-01T11:10:13+05:30
```

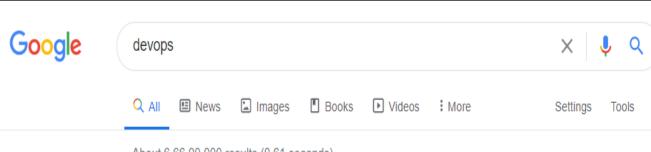






Aim: Selenium IDE. Perform Automation testing using Selenium IDE for testing a web page.





About 6,66,00,000 results (0.61 seconds)

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Feedback

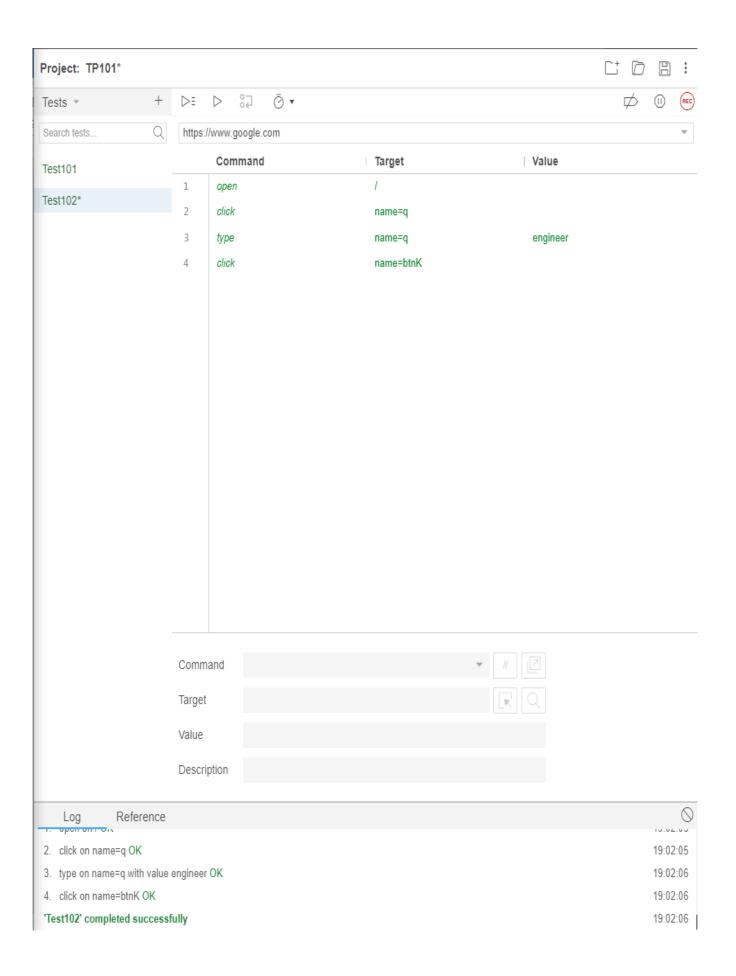
www.atlassian.com > devops *

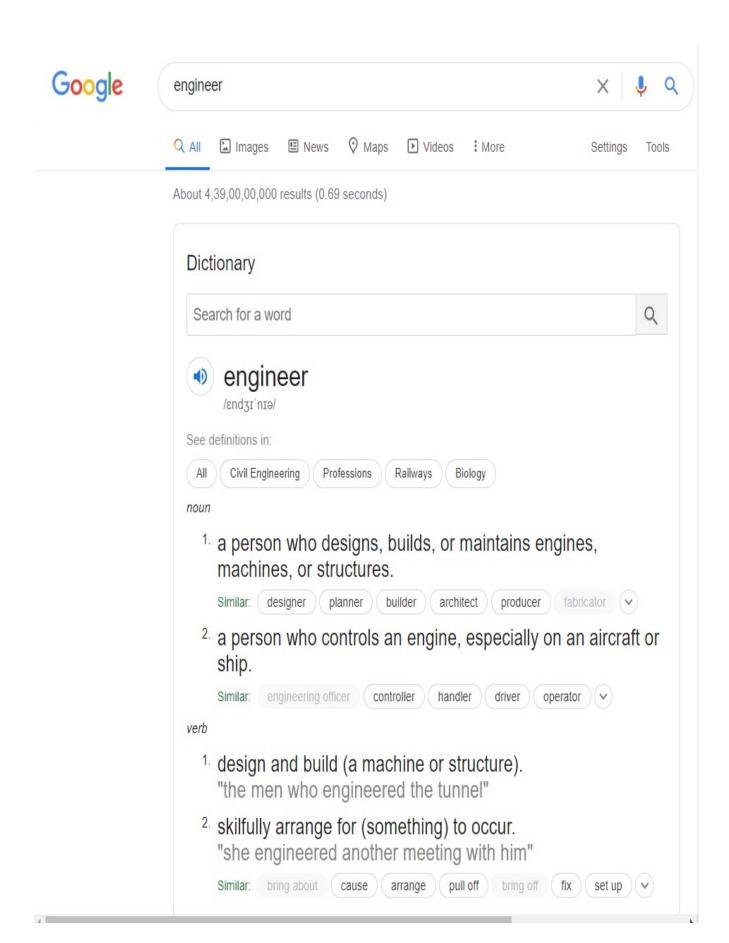
What is DevOps? | Atlassian

DevOps is a set of practices that works to automate and integrate the processes between software development and IT teams, so they can build, test, and release software faster and more reliably.

Agile and DevOps · Chef evolves DevOps with ... · DevOps Maturity Model · Blog

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```
INFO]
       --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
      Nothing to compile - all classes are up to date
INFO]
INFO]
INFO]
INFO]
      --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
INFO]
      TESTS
      Running com.mycompany.app.AppTest
      Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.057 s - in com.mycompany.app.AppTest
INFO]
INFO]
INFO]
      Results:
INFO]
INFO]
INFO]
      --- maven-antrun-plugin:1.1:run (default) @ my-app ---
INFO] Executing tasks

[echo] This is Profile 1 Task

[copy] Copying 1 file to F:\2nd Year\4TH SEMESTER\Build And Release\Eclipse\DevOps\my-app\src\test
INFO]
      Total time: 5.194 s
INFO]
      Finished at: 2020-04-26T19:21:08+05:30
```

```
-- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
INFO] Nothing to compile - all classes are up to date
INFO
INFO]
     --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
INFO] -----
INFO]
INFO]
     TESTS
INFO] Running com.mycompany.app.AppTest
     Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.064 s - in com.mycompany.app.AppTest
INFO]
INFO
     Results:
INFO]
     Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
INFO] --- maven-antrur
INFO] Executing tasks
     --- maven-antrun-plugin:1.1:run (default) @ my-app ---
    [echo] This is Profile 2
   [copy] Copying 1 file to F:\2nd Year\4TH SEMESTER\Build And Release\Eclipse\DevOps\my-app\src\test
INFO] Executed tasks
INFO]
INFO | BUILD SUCCESS
INFO
     Total time: 3.233 s
     Finished at: 2020-04-26T19:22:25+05:30
```

```
F:\2nd Year\4TH SEMESTER\Build And Release\Eclipse\DevOps\my-app>mvn test
[INFO] Scanning for projects...
INFO
INFO] -----< com.mycompany.app:my-app >-----
INFO] Building my-app 1.0-SNAPSHOT
INFO] -----[ jar ]-----
INF01
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
INFO] skip non existing resourceDirectory F:\2nd Year\4TH SEMESTER\Build And Release\Eclipse\DevOps\my-app\src\main\resources
INFO]
INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ my-app ---
INFO] Nothing to compile - all classes are up to date
INFO]
INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ my-app ---
INFO] Using 'UTF-8' encoding to copy filtered resources.
INFO] skip non existing resourceDirectory F:\2nd Year\4TH SEMESTER\Build And Release\Eclipse\DevOps\my-app\src\test\resources
INFO]
INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
INFO] Nothing to compile - all classes are up to date
INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
INFO]
INFO] -----
INFO TESTS
INFO] -----
[INFO] Running com.mycompany.app.AppTest
INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.202 s - in com.mycompany.app.AppTest
INFO]
INFO] Results:
INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
INFO]
[INFO] --- maven-antrun-plugin:1.1:run (default) @ my-app ---
[INFO] Executing tasks
    [echo] This is Profile 2
[INFO] Executed tasks
[INFO] BUILD SUCCESS
INFO] -----
INFO] Total time: 3.825 s
INFO] Finished at: 2020-04-27T11:46:00+05:30
```

Aim: Integration using GitHub Create a complete Maven project and push in GitHub repository for Continuous Integration.

Pushed every commit via a post-commit hook

