



Experiment No. 1.3

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Branch: MCA - CCD Section/Group: MCD-1/ Grp A
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Subject Name: DevOps Process Automation Lab Subject Code: 22CAP-745

1. Aim/Overview of the practical:

With an understanding of the theory and techniques that Maven uses to manage a project, we can now develop our own Maven project.

In this application, you have to create a simple adder that computes the sum of two integers. During this process, you will:

- a. Generate a Maven project using the Maven command-line tool
- b. Configure the pom.xml file
- c. Create main and test source code files
- d. Execute a Maven build
- e. Execute the resulting JAR file

Code for practical:

- Open git bash and create a directory using mkdir project
- Go to project using cd project
- Create a maven project using command

mvn archetype:generate -DgroupId=ToolsQA -DartifactId=DemoMavenProject -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

• Import any java project using command

git clone https://github.com/mariazeved088/artigo-boas-praticas-medium.git

Go to this directory using cd command





- Install java jdk and maven in computer
- Use following commands
- *mvn clean:* Removes build artifacts.

- *mvn validate:* Validates project configuration.
- *mvn compile:* Compiles source code.
- *mvn test-compile:* Compiles test code.
- *mvn package:* Creates distributable package.
- mvn verify: Checks package integrity.

• *mvn install:* Installs package to local repository.

```
PS C:\Users\krish\Downloads\apache-maven-3.9.4-bin\apache-maven-3.9.4\bin\projectMaven\artigo-boas-praticas-medium> mvn
verify
[INFO] Scanning for projects...
[INFO]
[INFO]
              --< io.github.mariazevedo88:artigo-boas-praticas-medium >----
[INFO] Building artigo-boas-praticas-medium 1.0.0-SNAPSHOT
[INFO]
       from pom.xml
[INFO]
                                       --[ jar ]--
[INFO]
[INFO]
       --- resources:3.3.1:resources (default-resources) @ artigo-boas-praticas-medium ---
[INFO] Copying 3 resources from src\main\resources to target\classes
[INFO]
[INFO]
          compiler:3.6.1:compile (default-compile) @ artigo-boas-praticas-medium ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO]
        --- resources:3.3.1:testResources (default-testResources) @ artigo-boas-praticas-medium ---
[INFO] skip non existing resourceDirectory C:\Users\krish\Downloads\apache-maven-3.9.4-bin\apache-maven-3.9.4\bin\projec
tMaven\artigo-boas-praticas-medium\src\test\resources
[INFO]
[INFO] --- compiler:3.6.1:testCompile (default-testCompile) @ artigo-boas-praticas-medium ---
[INFO] No sources to compile
[INFO]
[INFO] --- surefire:3.1
[INFO] No tests to run.
        -- surefire:3.1.2:test (default-test) @ artigo-boas-praticas-medium ---
[INFO]
       --- jar:3.3.0:jar (default-jar) @ artigo-boas-praticas-medium ---
[INFO]
[INFO]
[INFO] BUILD SUCCESS
```

• *mvn deploy:* Deploys package to remote repository.





	22.4.22.4	E	400.140
🕌 artigo-boas-praticas-medium.jar	28-Aug-23 2:14 PM	Executable Jar File	109 KB
maven-archiver	28-Aug-23 2:14 PM	File folder	
classes	28-Aug-23 1:48 PM	File folder	
generated-sources	28-Aug-23 1:48 PM	File folder	
maven-status	28-Aug-23 1:48 PM	File folder	

• Go to target folder and there will be JAR file execute it.