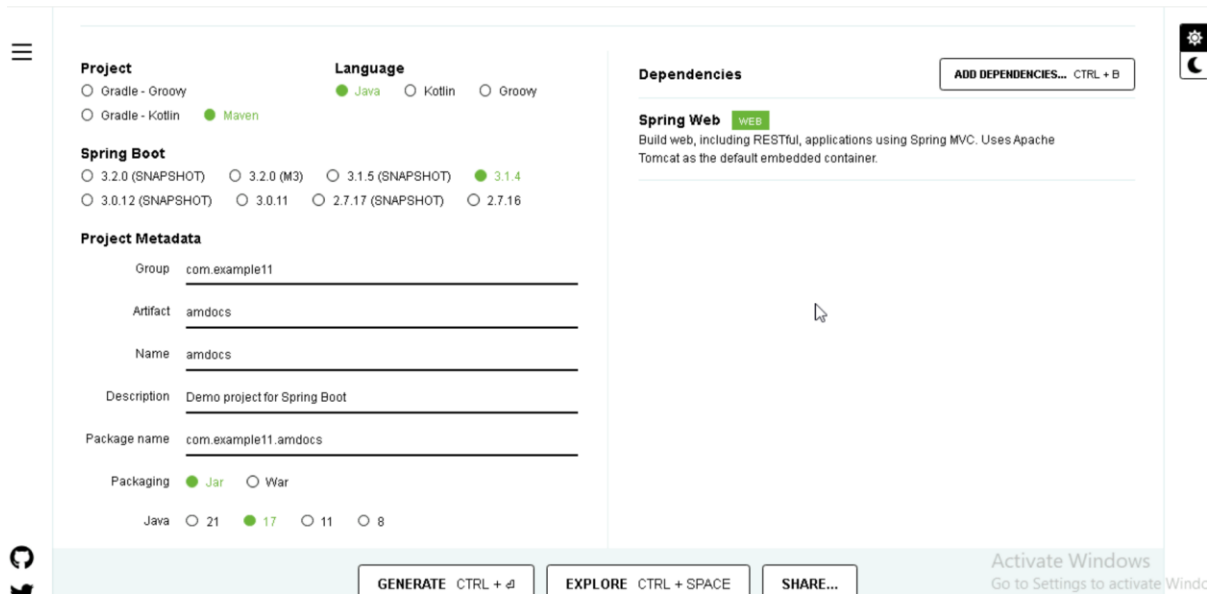
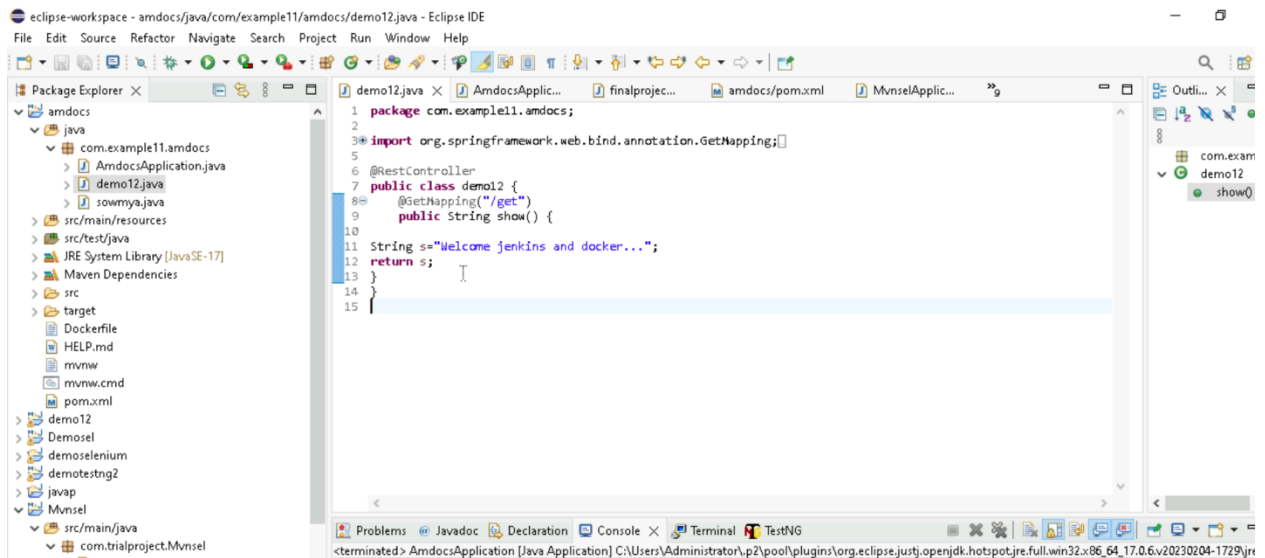


Project 1: *Make a Spring boot project and upload the image on Dockers.

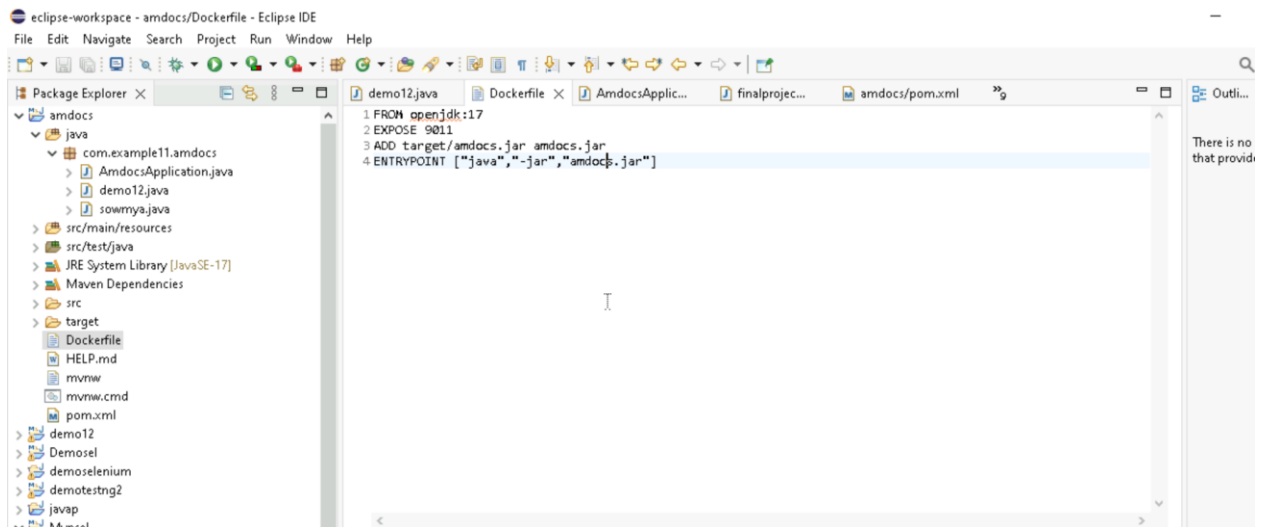
Step 1: Generate a Root Directory.



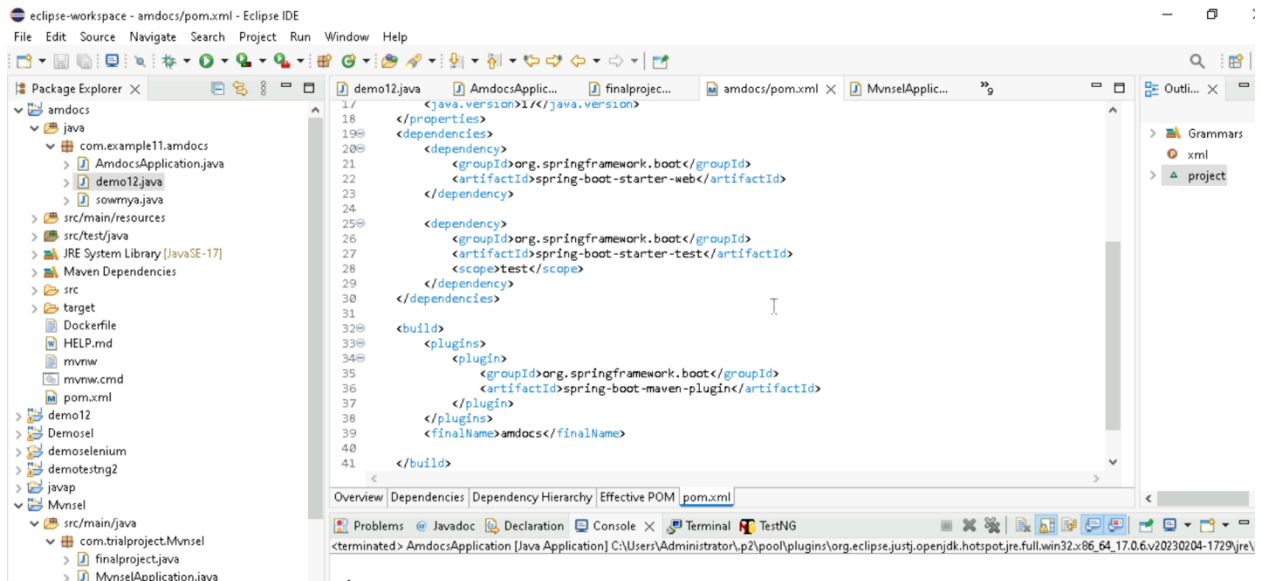
Step 2: Import and create a class in Eclipse.



Step 3: Create a Docker File.



Step 4: Update jar name in pom.xml



Step 5: Open command prompt and login to dockers.

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator\Downloads\amdocs>docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/

C:\Users\Administrator\Downloads\amdocs>
```

Step 6: Build the image.

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator\Downloads\amdocs>docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/

C:\Users\Administrator\Downloads\amdocs>docker build -t project:latest .
2023/10/04 23:37:03 http2: server: error reading preface from client //./pipe/docker_engine: file has already been closed
[+] Building 2.5s (8/8) FINISHED
=> [internal] load .dockerignore                                docker:default 0.0s
=> => transferring context: 2B                                  0.0s
=> [internal] load build definition from Dockerfile             0.1s
=> => transferring dockerfile: 140B                             0.0s
=> [internal] load metadata for docker.io/library/openjdk:17   2.2s
=> [auth] library/openjdk:pull token for registry-1.docker.io  0.0s
=> [internal] load build context                                0.0s
=> => transferring context: 67B                                   0.0s
=> [1/2] FROM docker.io/library/openjdk:17@sha256:528707081fdb9562eb819128a9f85ae7fe000e2fbaef9f87662e7b3f38cb7d8 0.0s
=> CACHED [2/2] ADD target/amdocs.jar amdocs.jar              0.0s
=> exporting to image                                           0.0s
=> => exporting layers                                           0.0s
=> => writing image sha256:09fd9bd8486f81bef9d71495fbb7a2a96601669840c15dfe1f75c4f10379841e 0.0s
=> => naming to docker.io/library/project:latest              0.0s

What's Next?
View summary of image vulnerabilities and recommendations → docker scout quickview

C:\Users\Administrator\Downloads\amdocs>
```

Step 7: Tag and push the image.

```
Administrator: C:\Windows\System32\cmd.exe
C:\Users\Administrator\Downloads\amdocs>docker tag project:latest sowmya9099/project
C:\Users\Administrator\Downloads\amdocs>docker push sowmya9099/project
Using default tag: latest
The push refers to repository [docker.io/sowmya9099/project]
e4d6a9d190ed: Layer already exists
dc9fa3d8b576: Layer already exists
27ee19dc88f2: Layer already exists
c8dd97366670: Layer already exists
latest: digest: sha256:4a4c8606458b3dd2e5f74323af476dfbdea5649b9236952184ecb22657ca2e68 size: 1166
C:\Users\Administrator\Downloads\amdocs>
```

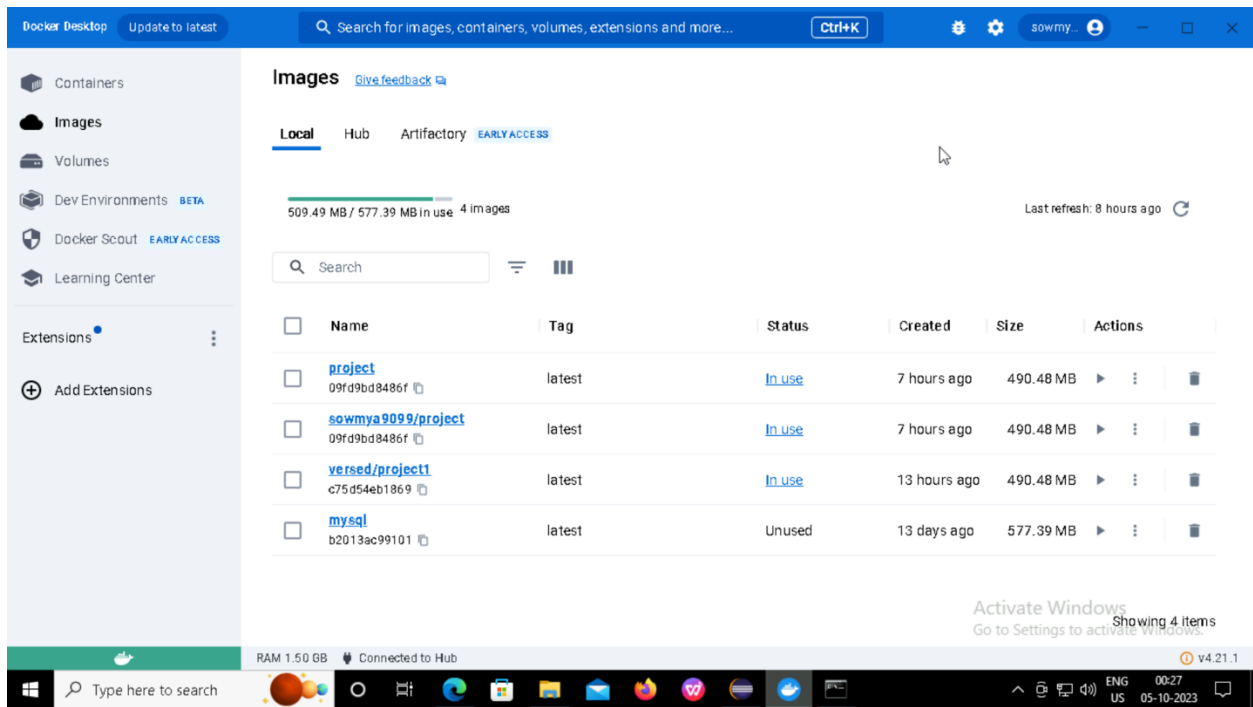
Step 8: Run the Image

```
Select Administrator: C:\Windows\System32\cmd.exe - docker run -p 8081:8081 project
C:\Users\Administrator\Downloads\amdocs>docker run -p 8081:8081 project

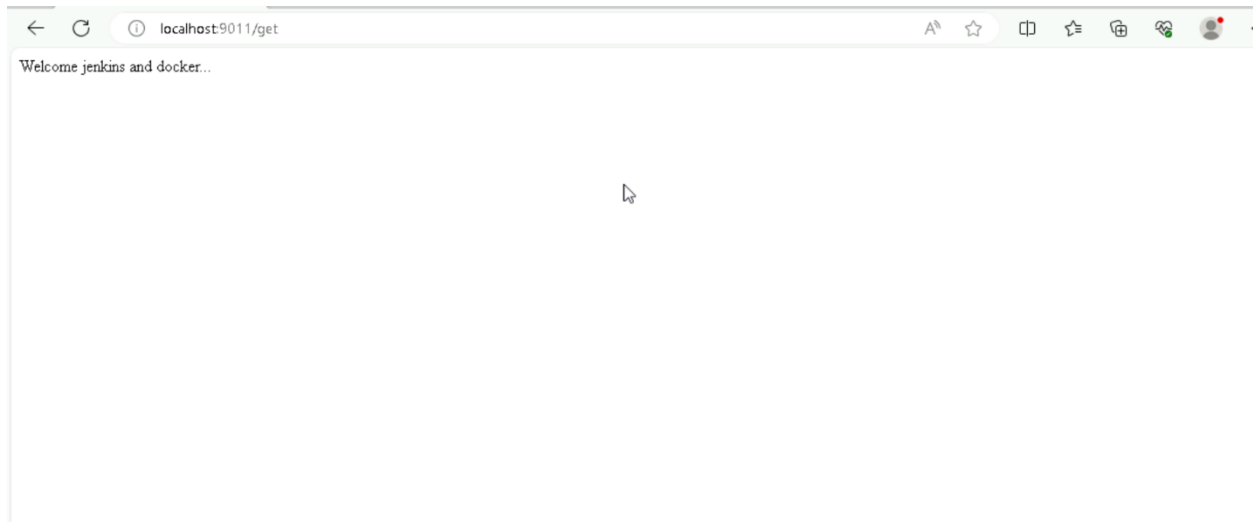
  ____  __  _  / 
 / __ \| \| \/_/ 
| |  | | | | | | 
| |  | | | | | | 
| |  | | | | | | 
|_|  |_|_|_|_|_|_/_/ (v3.1.4)
:: Spring Boot ::

2023-10-04T18:22:50.930Z INFO 1 --- [main] com.example11.amdocs.AmdocsApplication : Starting AmdocsApplication v0.0.1-SNAPSHOT using Java 17.0.
2023-10-04T18:22:50.936Z INFO 1 --- [main] com.example11.amdocs.AmdocsApplication : No active profile set, falling back to 1 default profile: "
default"
2023-10-04T18:22:52.783Z INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 9011 (http)
2023-10-04T18:22:52.799Z INFO 1 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-10-04T18:22:52.800Z INFO 1 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.13]
2023-10-04T18:22:52.952Z INFO 1 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-10-04T18:22:52.956Z INFO 1 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 184
5 ms
2023-10-04T18:22:53.542Z INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 9011 (http) with context path ''
2023-10-04T18:22:53.574Z INFO 1 --- [main] com.example11.amdocs.AmdocsApplication : Started AmdocsApplication in 3.541 seconds (process running
for 4.617)

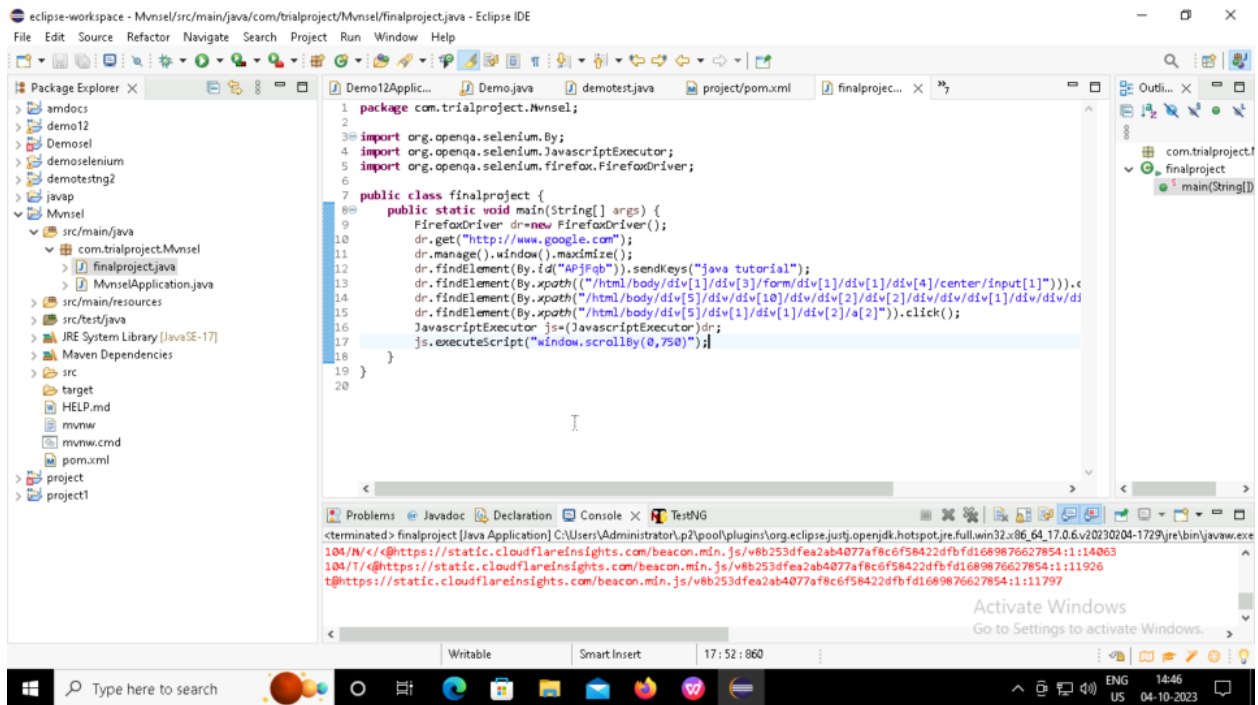
Activate Windows
Go to Settings to activate Windows.
```



Step 9: Outputs



Project 2 *Automating a website using Selenium.



Dependencies

MakeMyLabs | maven repositories - Search | Maven Repository: io.github.bonigarcia | +

https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager

WebDriverManager

Automated driver management and other helper features for Selenium WebDriver in Java

License: Apache 2.0

Categories: Web Browser Automation

Tags: github, webdriver, browser, automation

Ranking: #1056 in MvnRepository (See Top Artifacts)
#1 in Web Browser Automation

Used By: 444 artifacts

Central (85) | Liferay Public (29)

Version	Vulnerabilities	Repository	Usages	Date
5.5.3		Central	13	Sep 01, 2023
5.5.2		Central	12	Aug 25, 2023
5.5.1		Central	0	Aug 25, 2023
5.5.0		Central	5	Aug 22, 2023
5.5.x		Central	14	Jul 19, 2023

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CHOOSE THE DESIRED BODY

MONDAY
15 Deadlift
10 Reverse Tuck-Up
10 Leg Press
5 Plank
15 Lunges
10 Bentleg Squats

TUESDAY
10 Overhead Press
15 Deadlift
10 Squat
10 Bench Press
10 Side Plank

WEDNESDAY
15 Leg Press
10 Walking Lunges
10 Squat
10 Bench Press
10 Side Plank

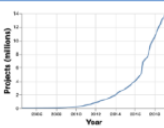
THURSDAY
10 Reverse Tuck-Up
10 Overhead Press
10 Leg Press
10 Bench Press
10 Side Plank

FRIDAY
15 Deadlift
10 Reverse Tuck-Up
10 Leg Press
10 Bench Press
10 Side Plank

← × 🏠 🔒 https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java

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- Java Specifications
- JSON Libraries
- JVM Languages
- Language Runtime
- Core Utilities
- Mocking
- Web Assets

Home > org.seleniumhq.selenium > selenium-java

Selenium Java

Selenium provides support for the automation of web browsers. It provides extensions to emulate user interaction with browsers, a distribution server for scaling browser allocation, and the infrastructure for implementations of the W3C WebDriver specification.

License: Apache 2.0

Categories: Web Testing

Tags: selenium testing web

Ranking: #278 in MvnRepository (See Top Artifacts)
#1 in Web Testing

Used By: 1,670 artifacts

Central (143) Atlassian 3rdParty (2) EmeryyaPub (3) Alfresco (1) ICM (3)

Version	Vulnerabilities	Repository	Usages	Date
4.13.x	4.13.0	Central	25	Sep 25, 2023
	4.12.1	Central	34	Sep 04, 2023
4.12.x	4.12.0	Central	14	Sep 01, 2023
		Central	42	Jul 31, 2023

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eclipse-workspace - Mvnsl/pom.xml - Eclipse IDE

File Edit Source Navigate Search Project Run Window Help

Package Explorer

- src/main/resources
- src/test/java
- JRE System Library [JavaSE-17]
- Maven Dependencies
- src
- target
- Dockerfile
- HELP.md
- mvnw
- mvnw.cmd
- pom.xml
- demo12
- Demosel
- demoseelenium
- demotesting2
- javap
- Mvnsl
 - src/main/java
 - com.trialproject.Mvnsl
 - finalproject.java
 - MvnslApplication.java
 - src/main/resources
 - src/test/java
 - JRE System Library [JavaSE-17]
 - Maven Dependencies
 - src
 - target
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml

demo12.java

```

16<properties>
17<java.version>17</java.version>
18</properties>
19<dependencies>
20<dependency>
21<groupId>org.springframework.boot</groupId>
22<artifactId>spring-boot-starter-web</artifactId>
23</dependency>
24
25<dependency>
26<groupId>org.springframework.boot</groupId>
27<artifactId>spring-boot-starter-test</artifactId>
28<scope>test</scope>
29</dependency>
30<dependency>
31<groupId>org.springframework.boot</groupId>
32<artifactId>spring-boot-testcontainers</artifactId>
33<scope>test</scope>
34</dependency>
35<dependency>
36<groupId>org.testcontainers</groupId>
37<artifactId>junit-jupiter</artifactId>
38<scope>test</scope>
39</dependency>
40</dependencies>

```

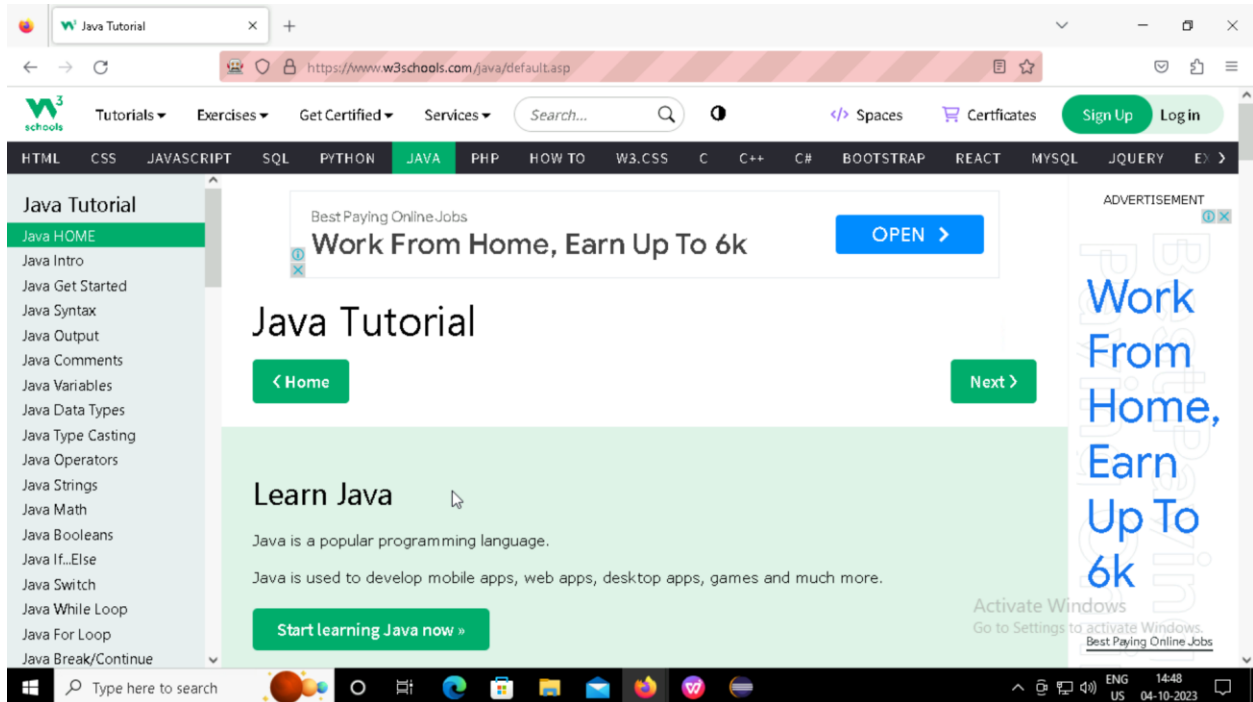
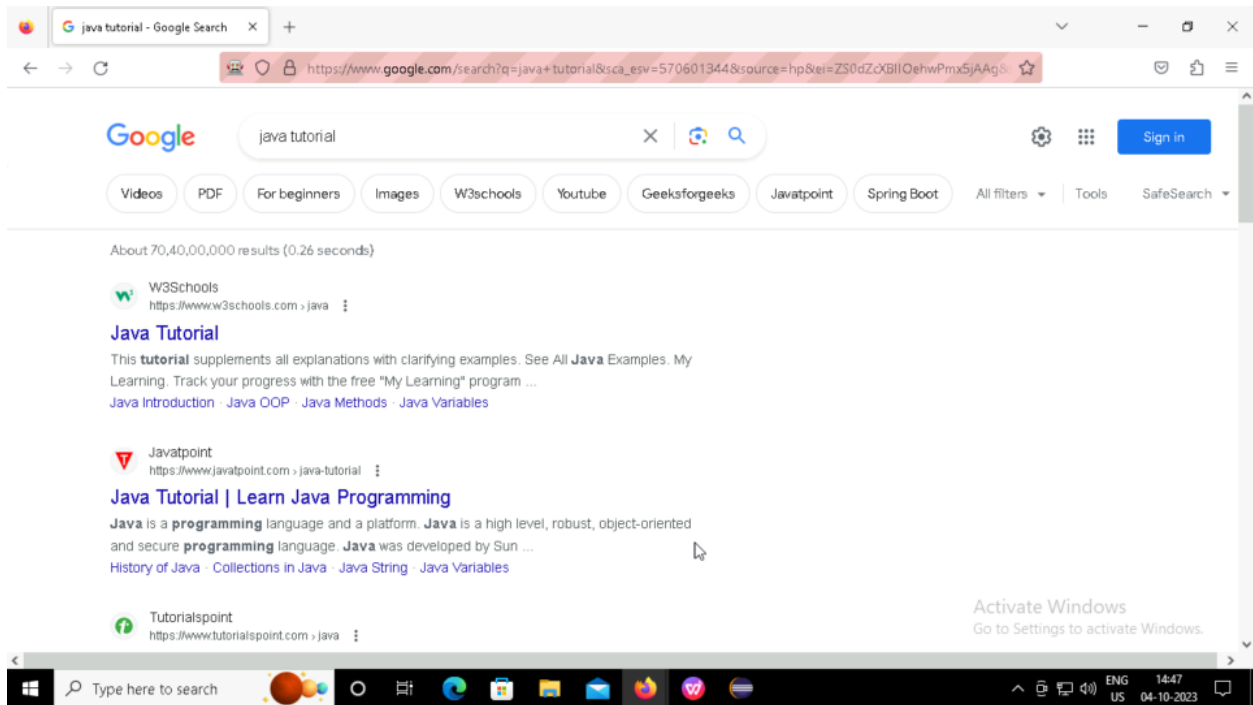
Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Problems Javadoc Declaration Console Terminal TestNG

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Output



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https://www.w3schools.com/java/java_intro.asp

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- Java Booleans
- Java If...Else
- Java Switch
- Java While Loop
- Java For Loop
- Java Break/Continue

Java Introduction

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What is Java?

Java is a popular programming language, created in 1995.

It is owned by Oracle, and more than **3 billion** devices run Java.

It is used for:

- Mobile applications (specially Android apps)
- Desktop applications

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- Java Strings
- Java Math
- Java Booleans
- Java If...Else
- Java Switch
- Java While Loop
- Java For Loop
- Java Break/Continue

- It is open-source and free
- It is secure, fast and powerful
- It has a huge community support (tens of millions of developers)
- Java is an object oriented language which gives a clear structure to programs and allows code to be reused, lowering development costs
- As Java is close to C++ and C#, it makes it easy for programmers to switch to Java or vice versa

Get Started

It is not necessary to have any prior programming experience.

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