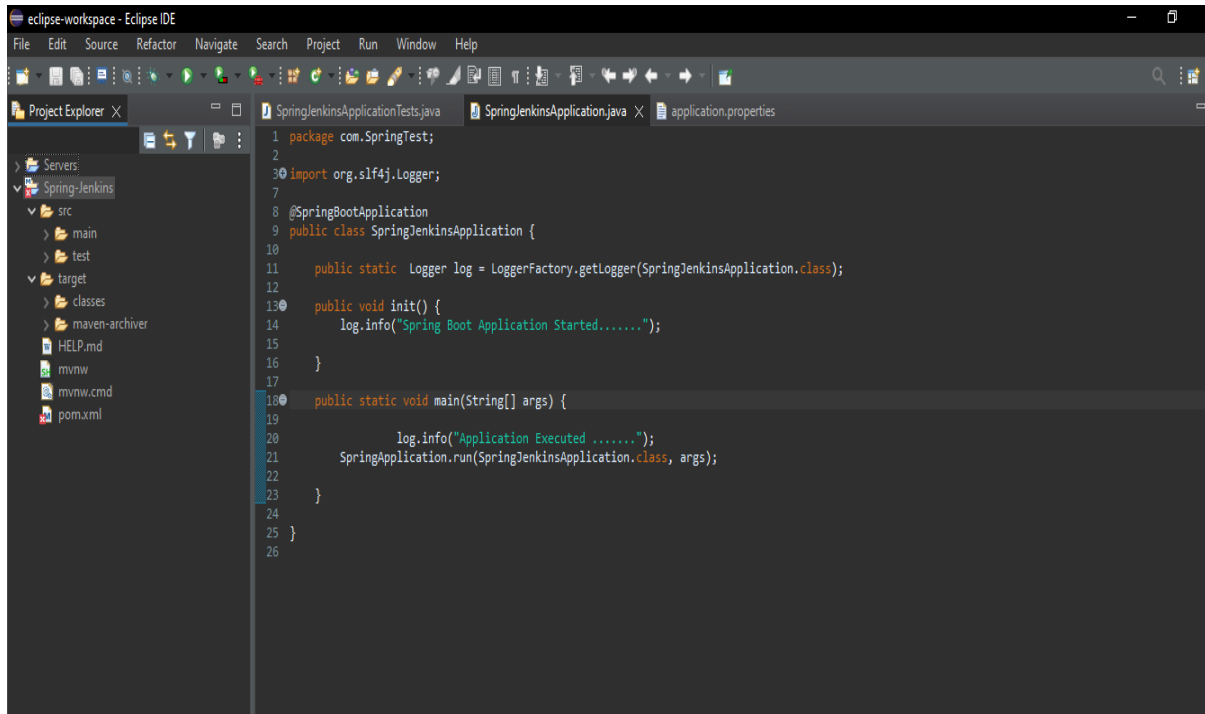
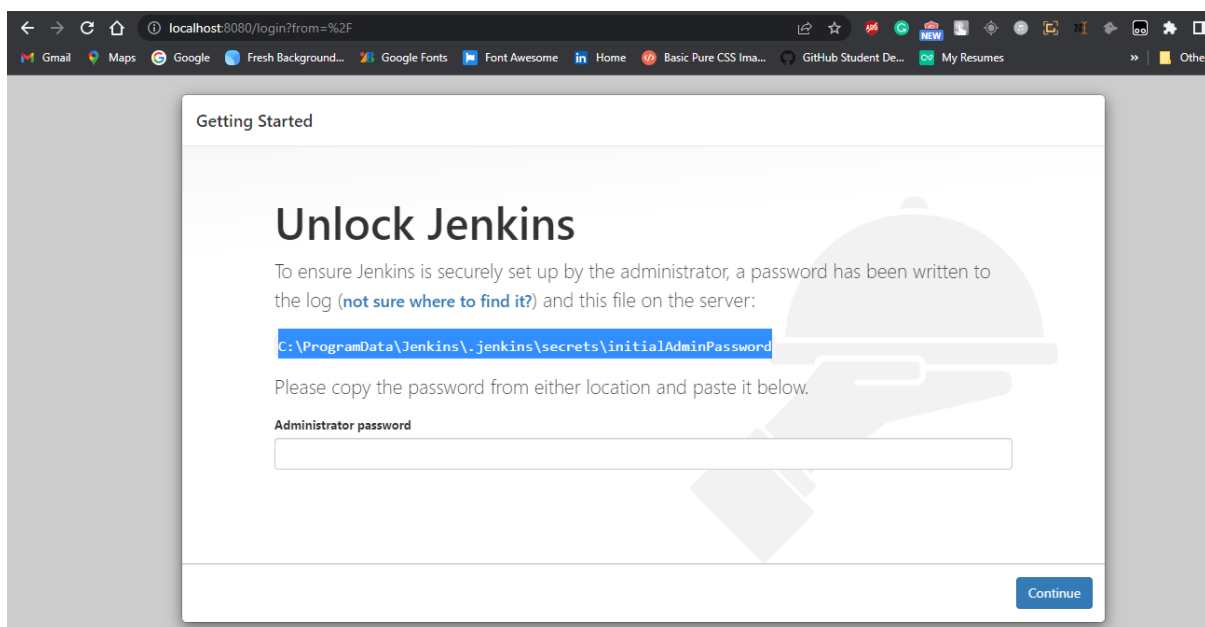


OUTPUTS:

Eclipse



```
1 package com.SpringTest;
2
3 import org.slf4j.Logger;
4
5
6
7
8 @SpringBootApplication
9 public class SpringJenkinsApplication {
10
11     public static Logger log = LoggerFactory.getLogger(SpringJenkinsApplication.class);
12
13     public void init() {
14         log.info("Spring Boot Application Started.....");
15     }
16
17
18     public static void main(String[] args) {
19
20         log.info("Application Executed .....");
21         SpringApplication.run(SpringJenkinsApplication.class, args);
22     }
23
24 }
25
26
```



1. I create Simple Spring boot Application to build a CI/CD pipeline to demonstrate continuous deployment:

```
Dashboard  ▸ Deployment Spring Jenkins ci-cd  ▸ #22

[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ Auth ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ Auth ---
[INFO] Skipping execution of surefire because it has already been run for this configuration
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ Auth ---
[INFO] Building jar: C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.4:repackage (repackage) @ Auth ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ Auth ---
[INFO] Installing C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar to C:\Users\hi\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\pom.xml to C:\Users\hi\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 39.186 s
[INFO] Finished at: 2022-05-02T18:30:19+05:30
[INFO] -----
Triggering a new build of Testing Spring Jenkins
Finished: SUCCESS

Dashboard  ▸ Testing Spring Jenkins  ▸ #8

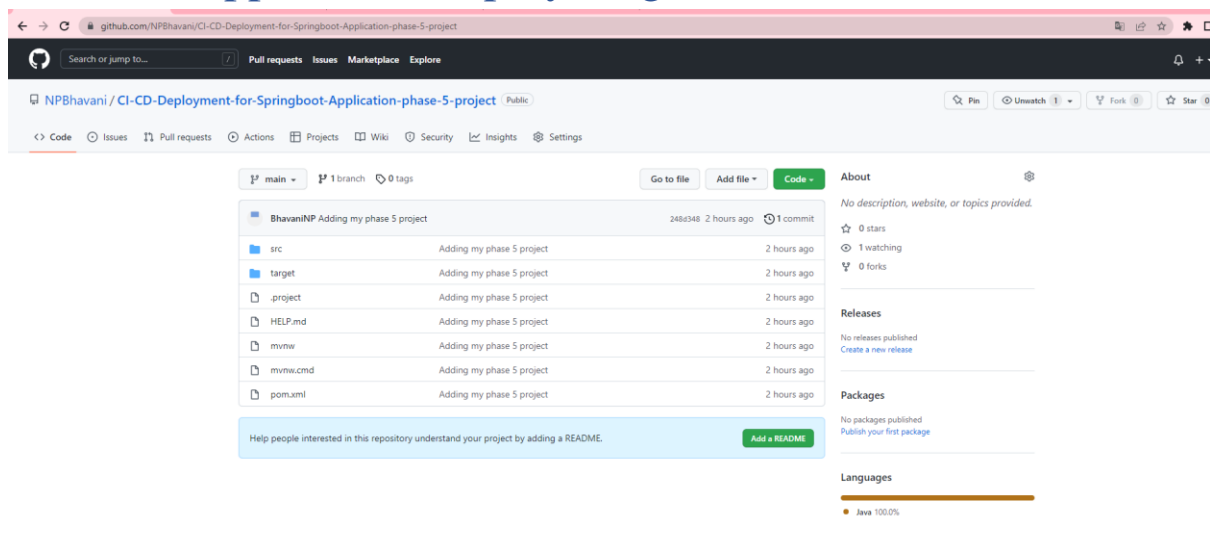
40-70-70-70-70 [INFO] Using 'UTF-8' encoding to copy filtered resources.
(spring.jmx.enabled=false, org.springframework.boot.test.context.SpringBootTestContextBootstrapper=true)

  ____ _
 / ___ \ | |
/ /   \ \| |
\ \   /  \| |
 \___/____|_|

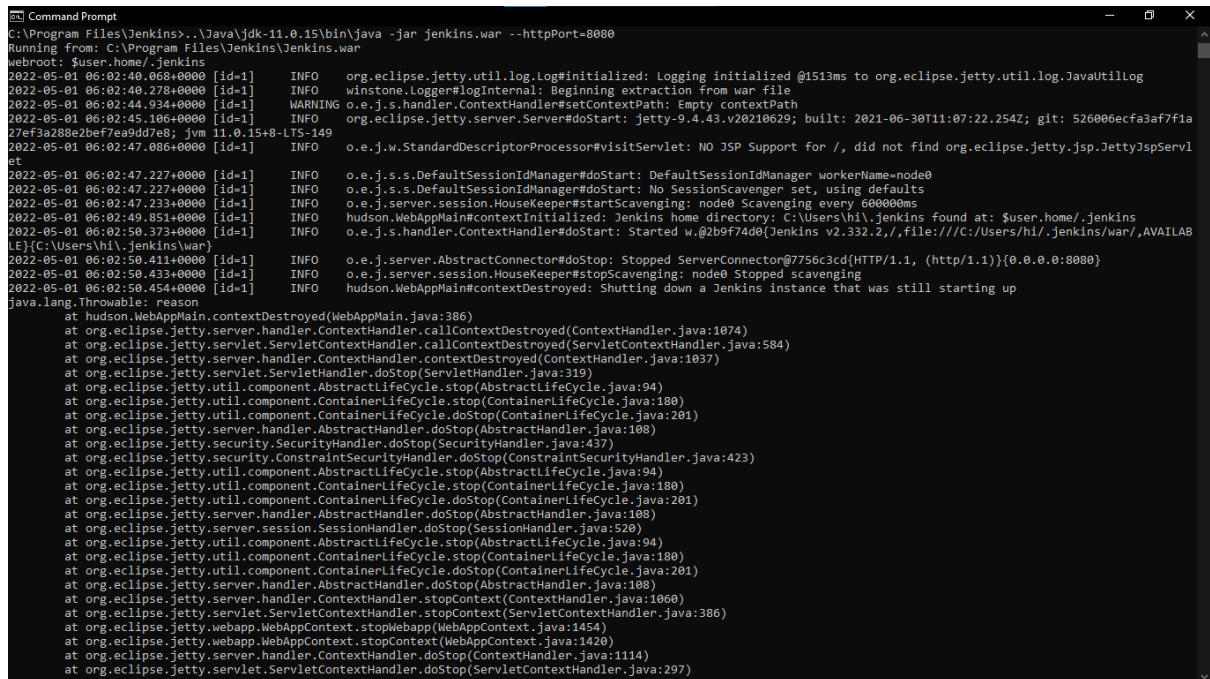
:: Spring Boot ::      (v2.5.4)

2022-05-02 18:30:47.111 INFO 15660 --- [main] com.testAuth.SpringCicdApplicationTests : Starting SpringCicdApplicationTests using Java
11.0.12 on DESKTOP-LBUFTHI with PID 15660 (started by Dell in C:\Users\hi\.jenkins\workspace\Testing Spring Jenkins)
2022-05-02 18:30:47.123 INFO 15660 --- [main] com.testAuth.SpringCicdApplicationTests : No active profile set, falling back to default
profiles: default
2022-05-02 18:30:54.842 INFO 15660 --- [main] com.testAuth.SpringCicdApplicationTests : Started SpringCicdApplicationTests in 9.885 seconds
(JVM running for 12.535)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 11.737 s - in com.testAuth.SpringCicdApplicationTests
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ Auth ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
```

Git Hub: Application Deploy on git Hub



Jenkins : Run Jenkins



CREATE THREE JENKINS PROJECT DEPLOYMENT:- DEPLOYMENT-TESTING-PRODUCTION

Dashboard

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Lockable Resources

New View

Build Queue

No builds in the queue.

Build Executor Status

Hello I Am OC

Edit description

All

CI-CD Pipeline Spring-Jenkins

+

S	W	Name	Last Success	Last Failure	Last Duration
		Deployment Spring Jenkins ci-cd	1 hr 32 min - #22	N/A	58 sec
		Production Spring Jenkins	1 hr 30 min - #8	N/A	54 sec
		Testing Spring Jenkins	1 hr 31 min - #8	N/A	37 sec

Icon: S M L

Icon legend

Atom feed for all

Atom feed for failures

Atom feed for just latest builds

Dashboard

Deployment Spring Jenkins ci-cd

#22

```

[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\src\test\resources
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ Auth ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\test-classes
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ Auth ---
[INFO] Skipping execution of surefire because it has already been run for this configuration
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ Auth ---
[INFO] Building jar: C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar
[INFO] --- spring-boot-maven-plugin:2.5.4:repackage (repackage) @ Auth ---
[INFO] Replacing main artifact with repackaged archive
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ Auth ---
[INFO] Installing C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar to C:\Users\hi\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\pom.xml to C:\Users\hi\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 39.186 s
[INFO] Finished at: 2022-05-02T18:30:19+05:30
[INFO] -----
Triggering a new build of Testing Spring Jenkins
Finished: SUCCESS

```

Dashboard

Testing Spring Jenkins

#8

```

2022-05-02 18:30:47.111 INFO 15660 --- [main] com.testAuth.SpringCiCdApplicationTests : Starting SpringCiCdApplicationTests using Java
11.0.12 on DESKTOP-LBUFTHI with PID 15660 (started by Dell in C:\Users\hi\.jenkins\workspace\Testing Spring Jenkins)
2022-05-02 18:30:47.123 INFO 15660 --- [main] com.testAuth.SpringCiCdApplicationTests : No active profile set, falling back to default
profiles: default
2022-05-02 18:30:54.842 INFO 15660 --- [main] com.testAuth.SpringCiCdApplicationTests : Started SpringCiCdApplicationTests in 9.885 seconds
(JVM running for 12.535)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 11.737 s - in com.testAuth.SpringCiCdApplicationTests
[INFO] Results:
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ Auth ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.

```

Final Output:-

Last host the application on AWS EC2 instance:

Welcome To Spring Boot CI-CD deployment

Step 2: Pushing the code to GitHub repository

- Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

- Initialize repository using the following command:

git init

- Add all the files to your git repository using the following command:

git add .

- Commit the changes using the following command:

git commit . -m <commit message>

- Push the files to the folder you initially created using the following command:

git push -u origin master.

