

Software Testing

EPAM

INDIVIDUAL PRACTICAL TASK REPORT

Module continuous integration with Jenkins Practical task

Bachelor Of Technology

Computer Science & Engineering

(Software Testing)

**LOVELY PROFESSIONAL UNIVERSITY PHAGWARA,
PUNJAB**



01/05/2023

SUBMITTED BY

Name of the student :- Pradeep Kumar Pandey

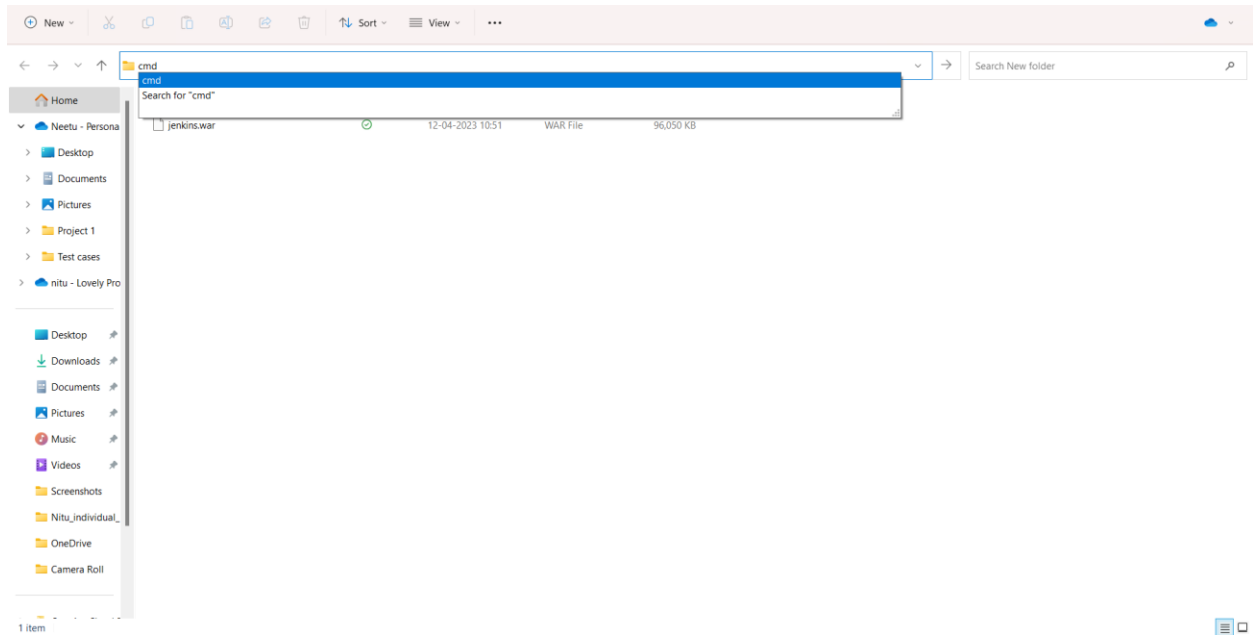
Registration Number :- 11914539

Roll No:- 36

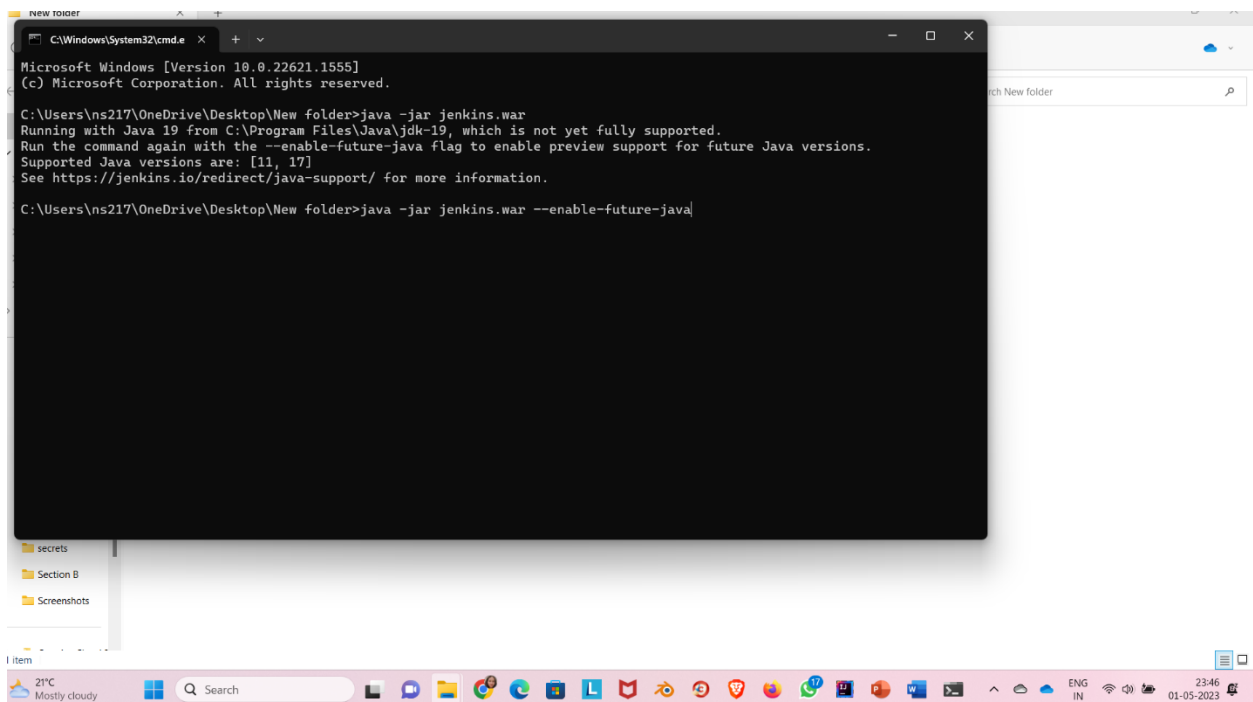
SUBMITTED TO

Name of the assistant professor:- Sakshi

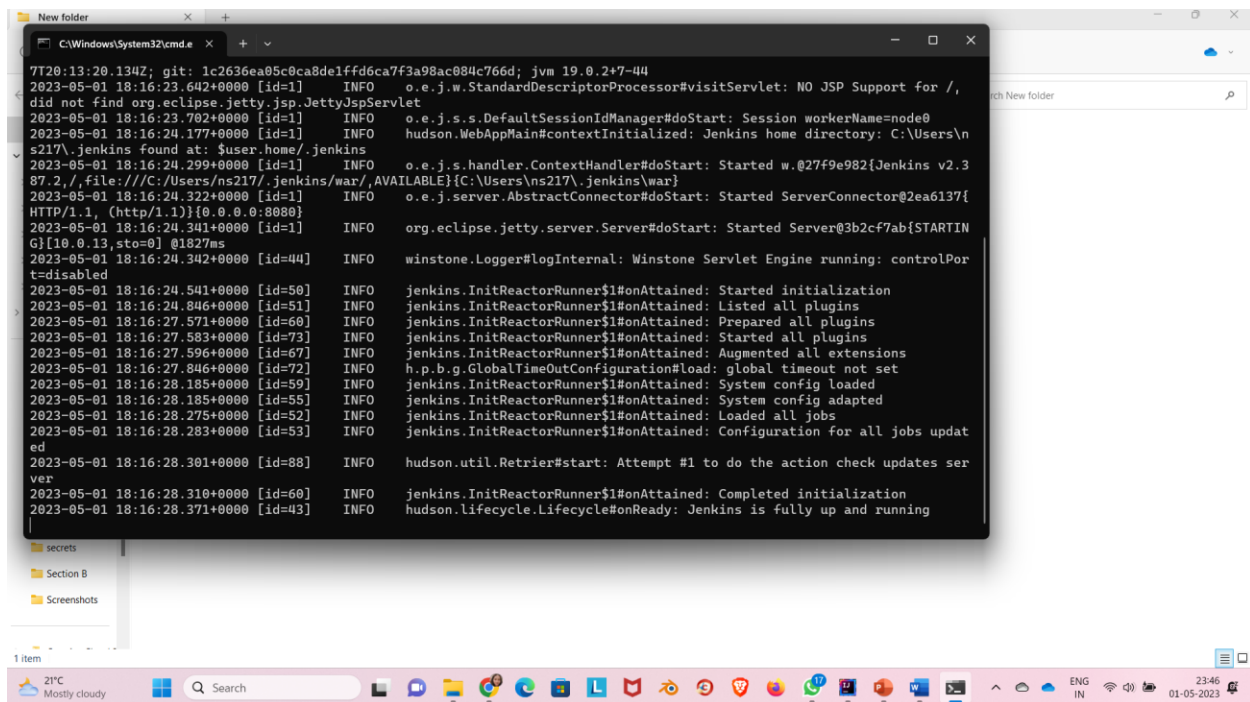
Step 1 :- Open Jenkins Folder and type command “cmd”



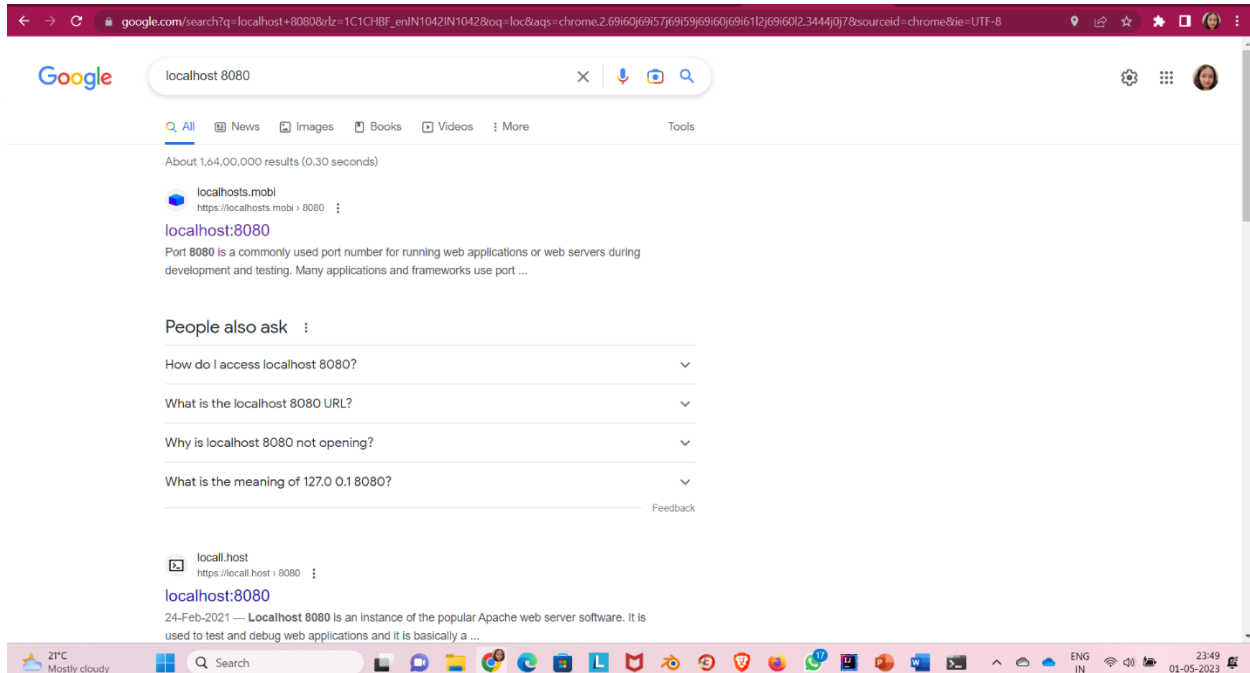
Step 2 :- Start Jenkins With Command `java -jar Jenkins.war` then
Second Command `java -jar Jenkins.war --enable-future-java`



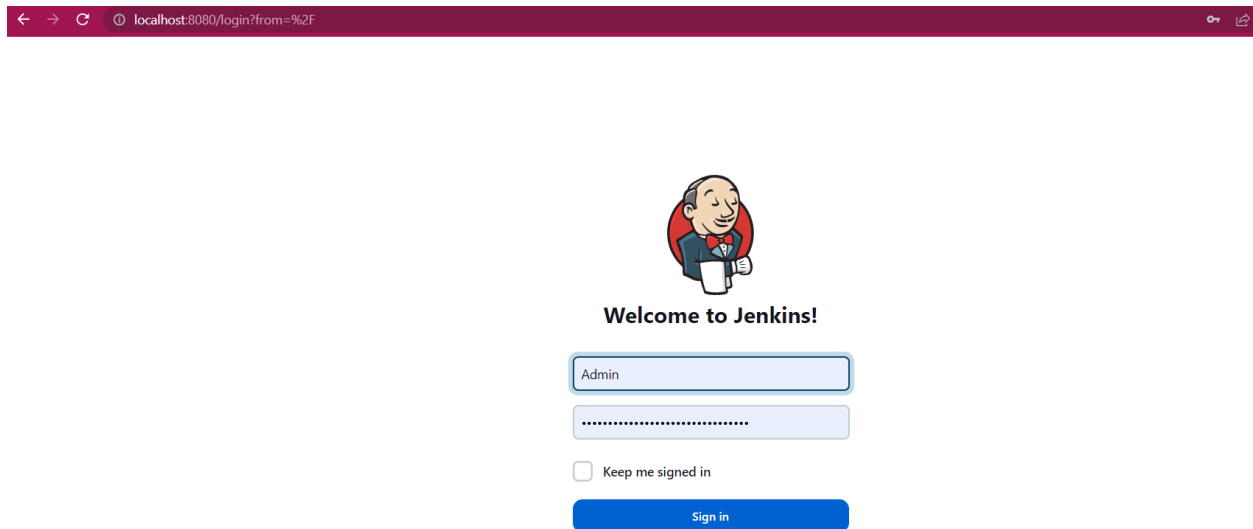
Step 3 :- Start Jenkin Running



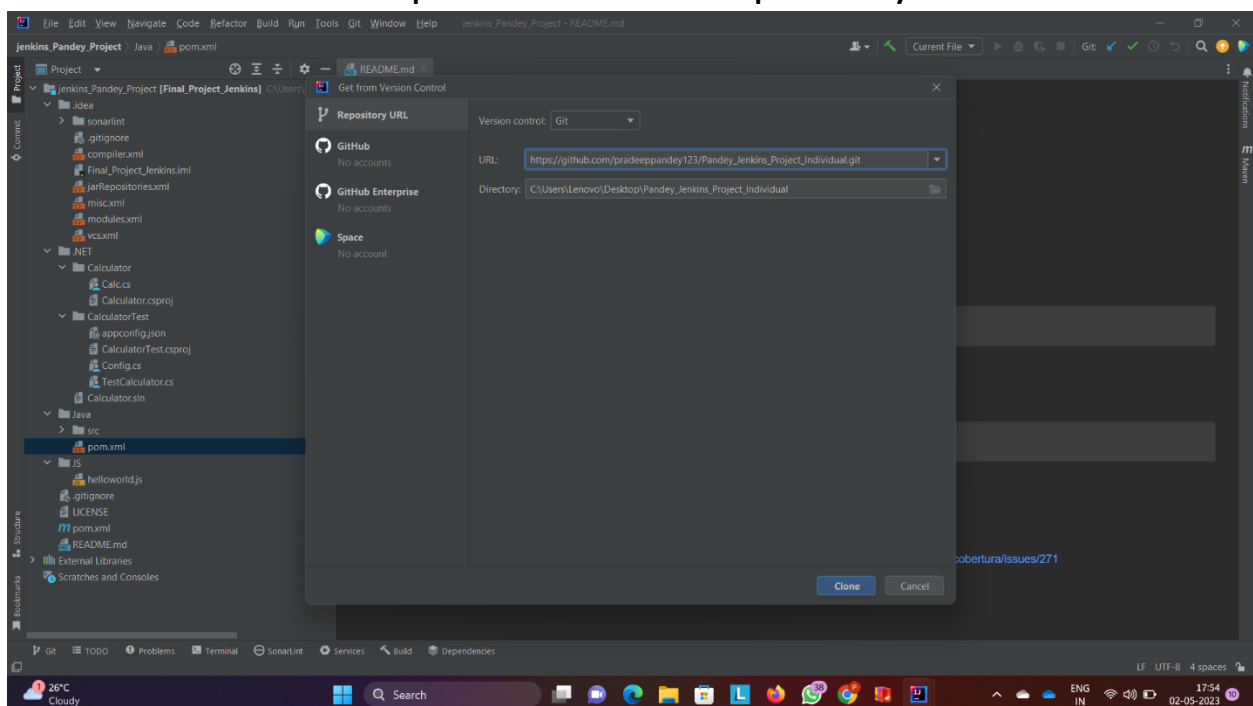
Step 4 :- Open Chrome Browser and Type localhost:8080



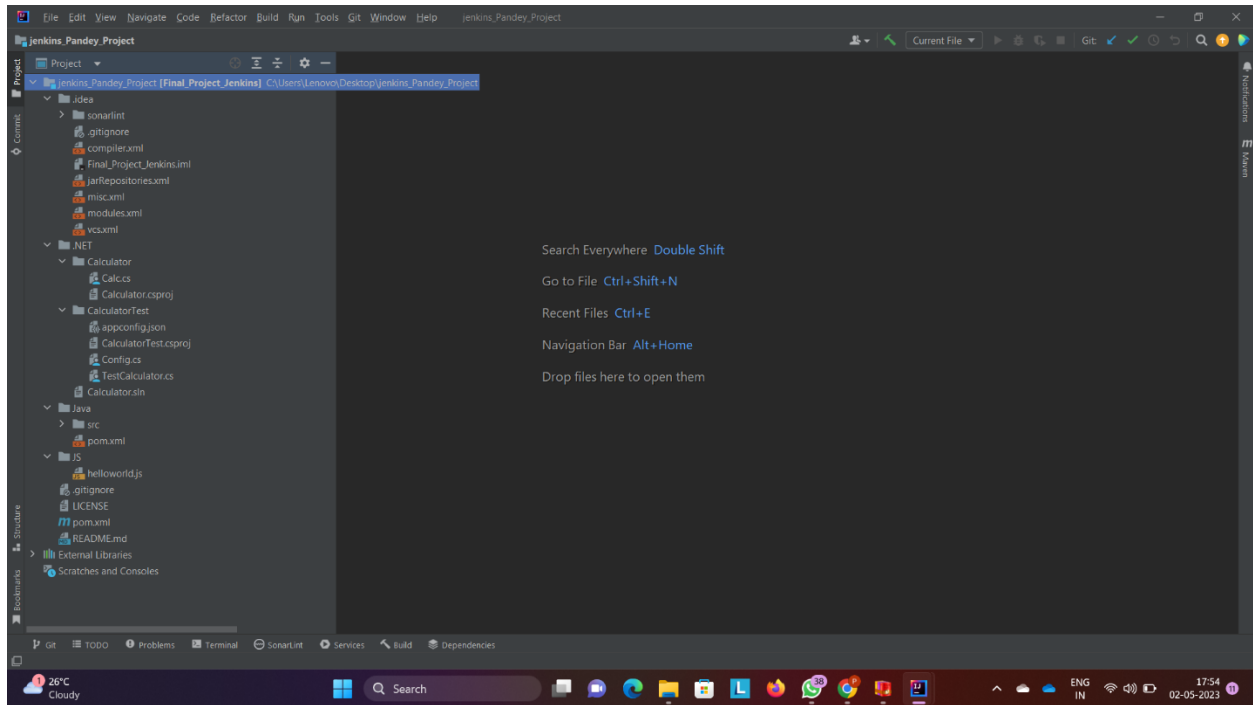
Step 5 :- Jankins Login With Credential



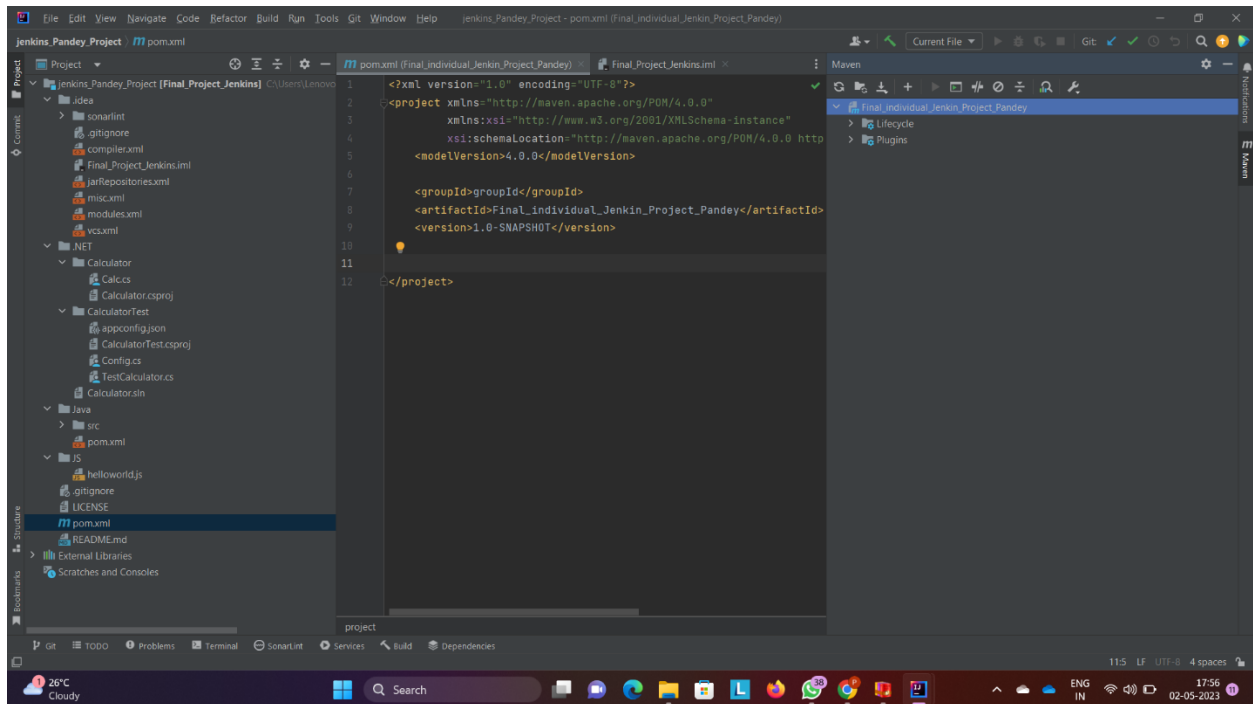
Step 6 :- Clone of Repository



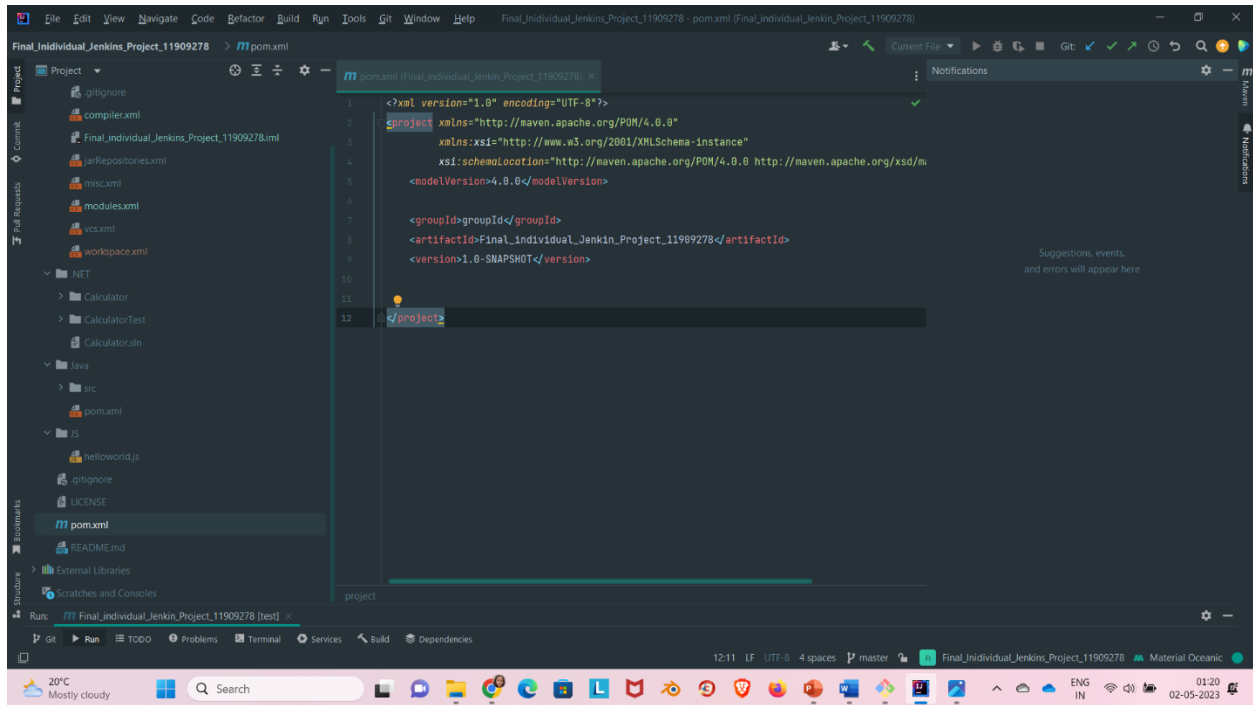
Step 7 :- Clone of Repository Completely



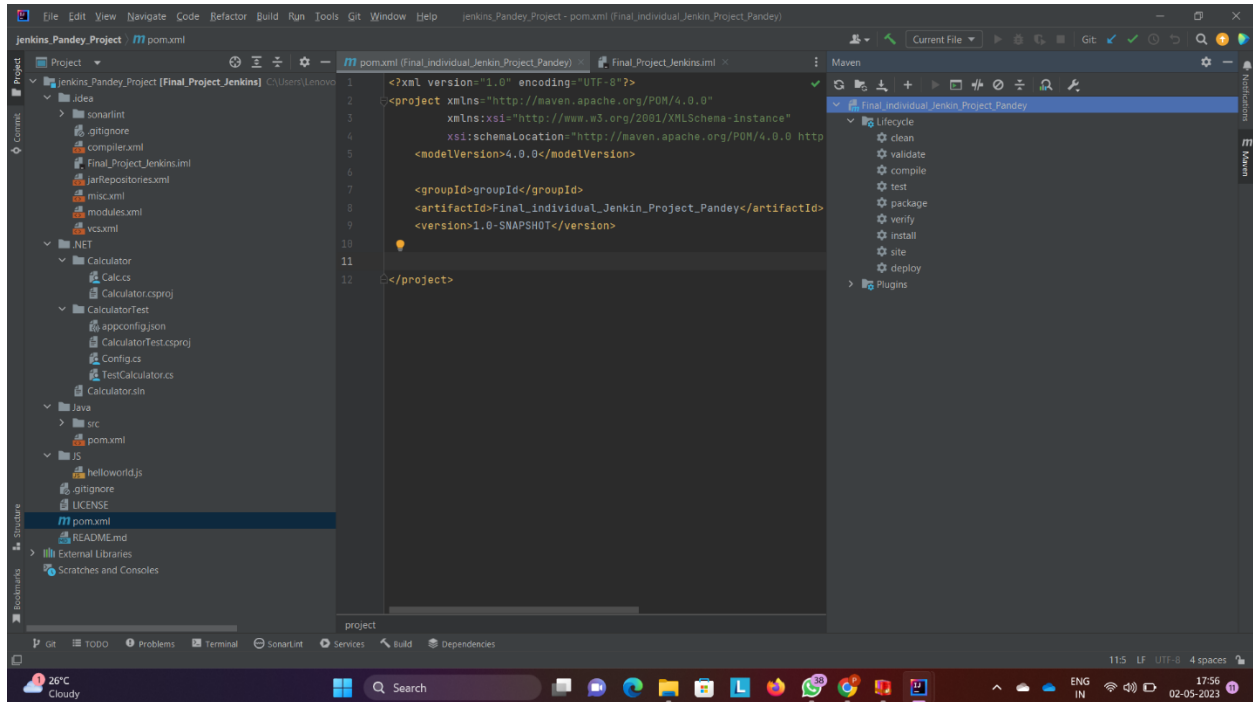
Step 8 :- Open Pom.Xml file



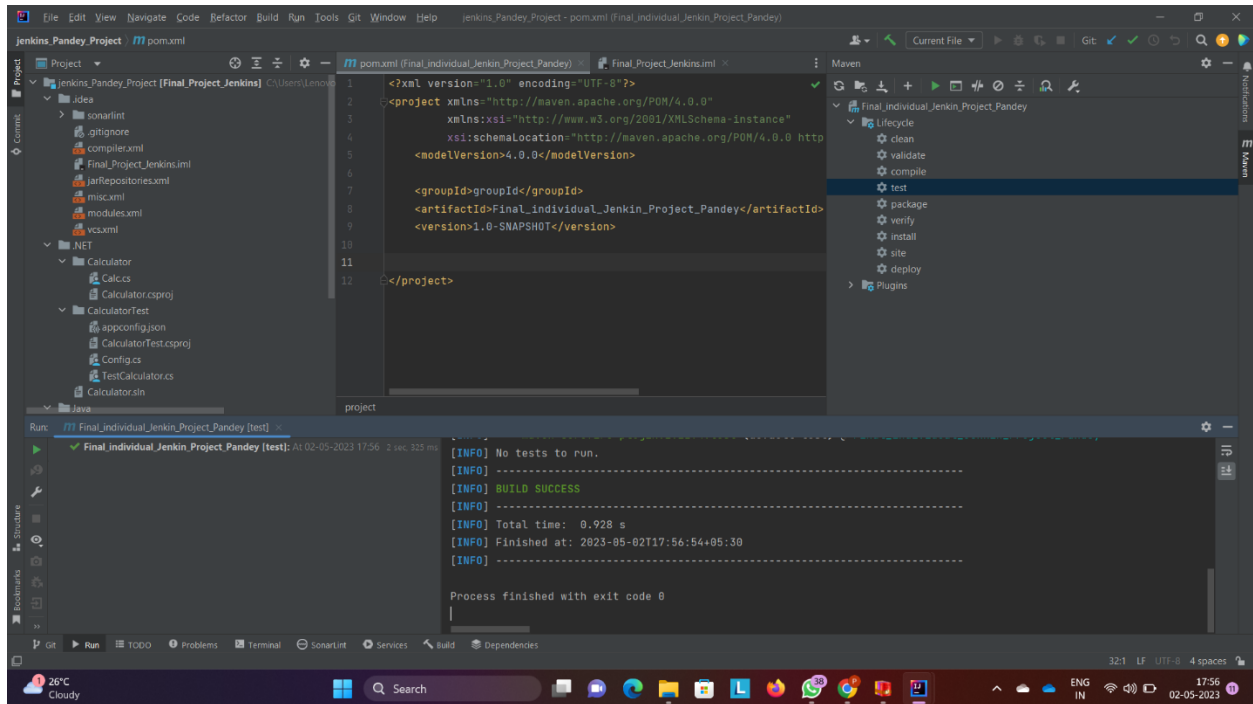
Step 9 :- Perform MVN Lifecycle



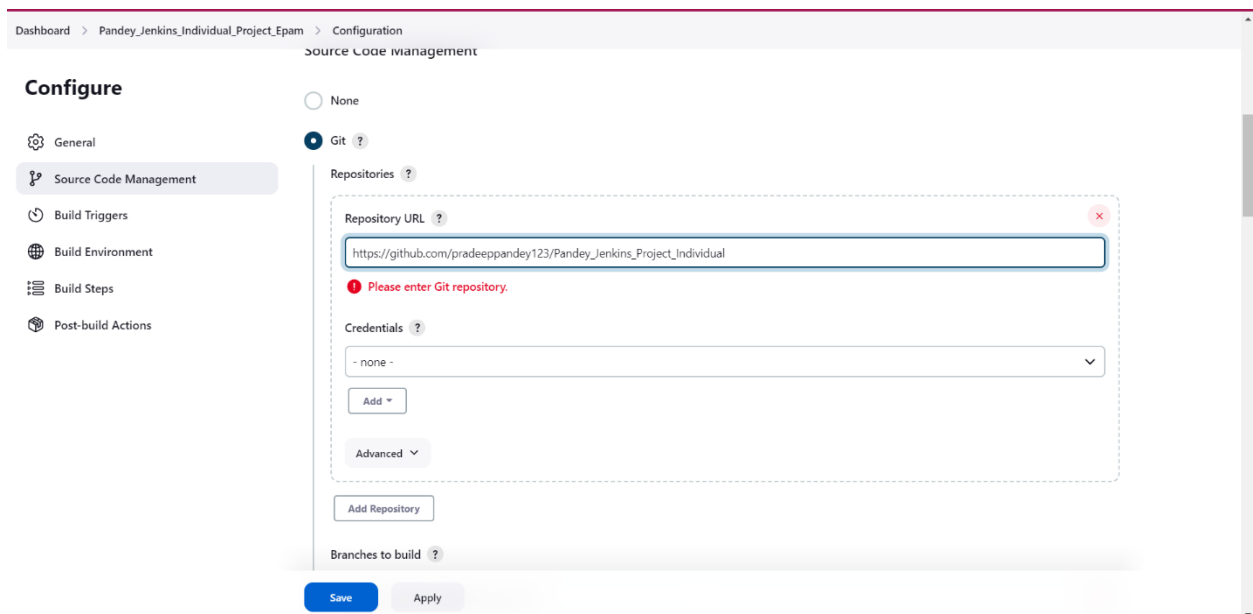
Step 10 :- Perform MVN LifeCycle



Step 11 :- Build Success



Step 12 :- Push URL Of Clone In Jenkins Configuration



Step 13 :- Jenkins Configuration

Dashboard > Pandey_Jenkins_Individual_Project_Epam > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Branches to build ?

Branch Specifier (blank for 'any') ?

*/master

Repository browser ?

(Auto)

Additional Behaviours

Add

Build Triggers

☐ Trigger builds remotely (e.g. from scripts) ?

Save **Apply**

Step 14 :- Jenkins Configuration Build Trigger 5 Minutes

Dashboard > Pandey_Jenkins_Individual_Project_Epam > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Build Triggers

☒ None

☐ Git ?

☐ Trigger builds remotely (e.g. from scripts) ?

☐ Build after other projects are built ?

☒ Build periodically ?

Schedule ?

/ * * * *

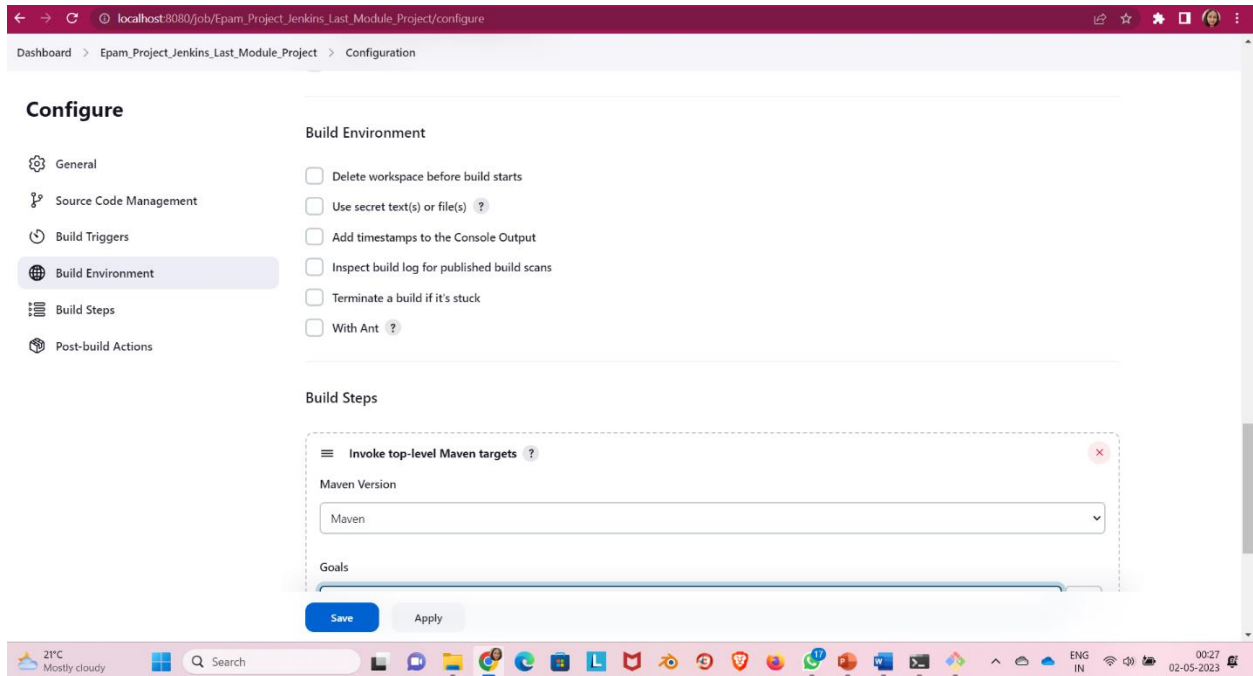
☐ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

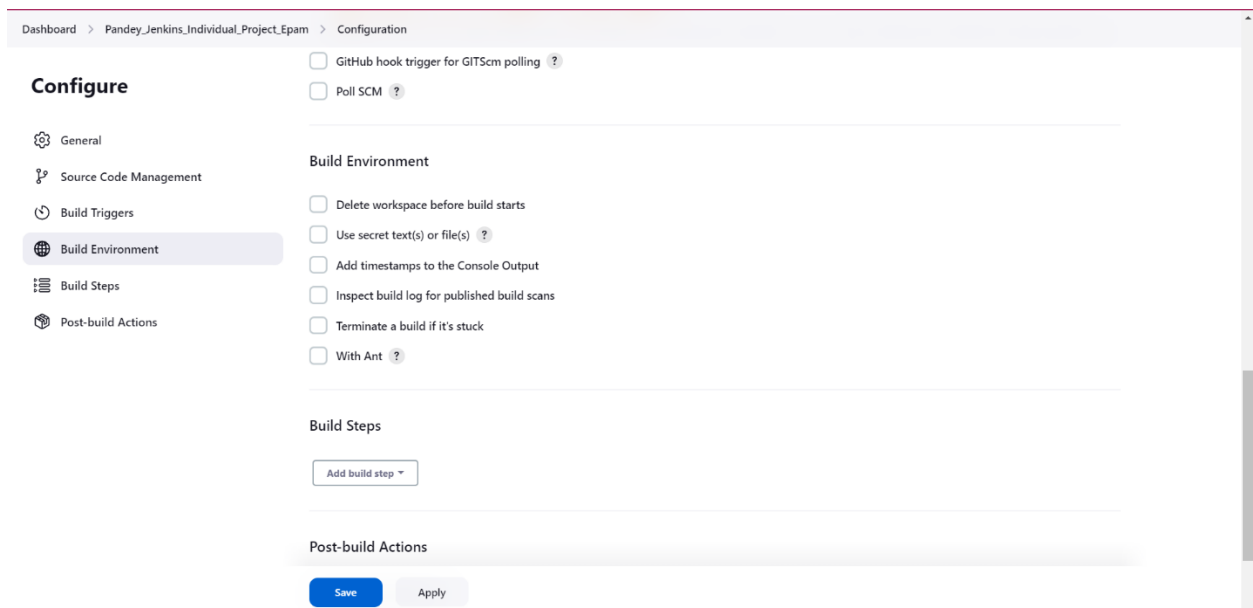
Build Environment

Save **Apply**

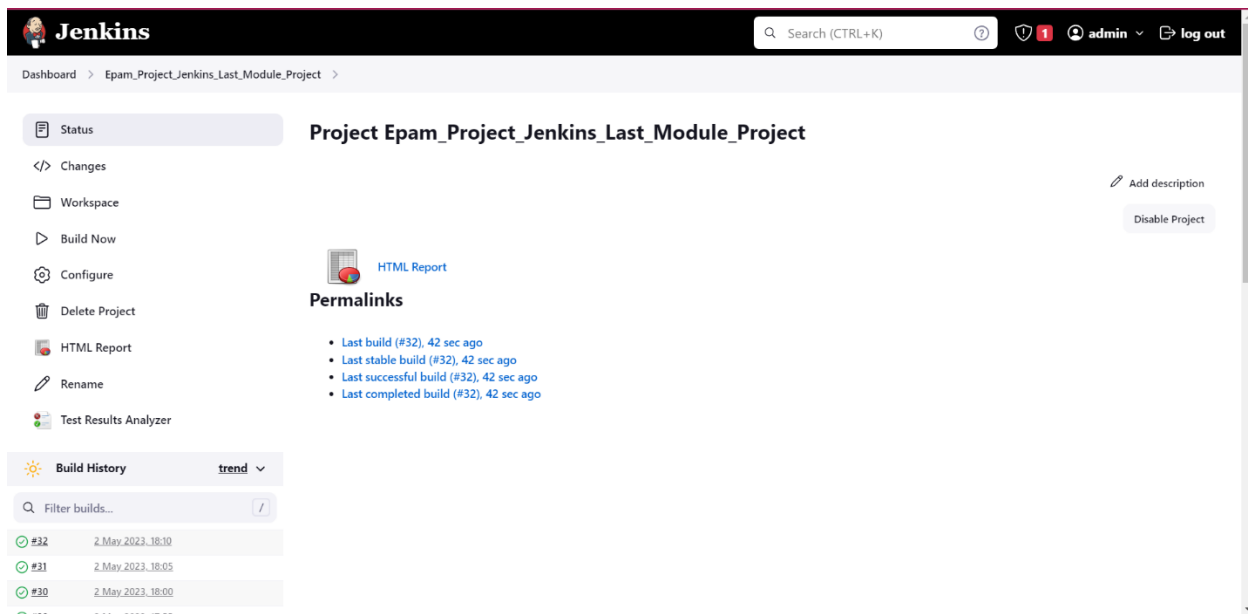
Step 15 :- Jenkins Configuration



Step 16 :- Jenkins Configuration Maven clean test



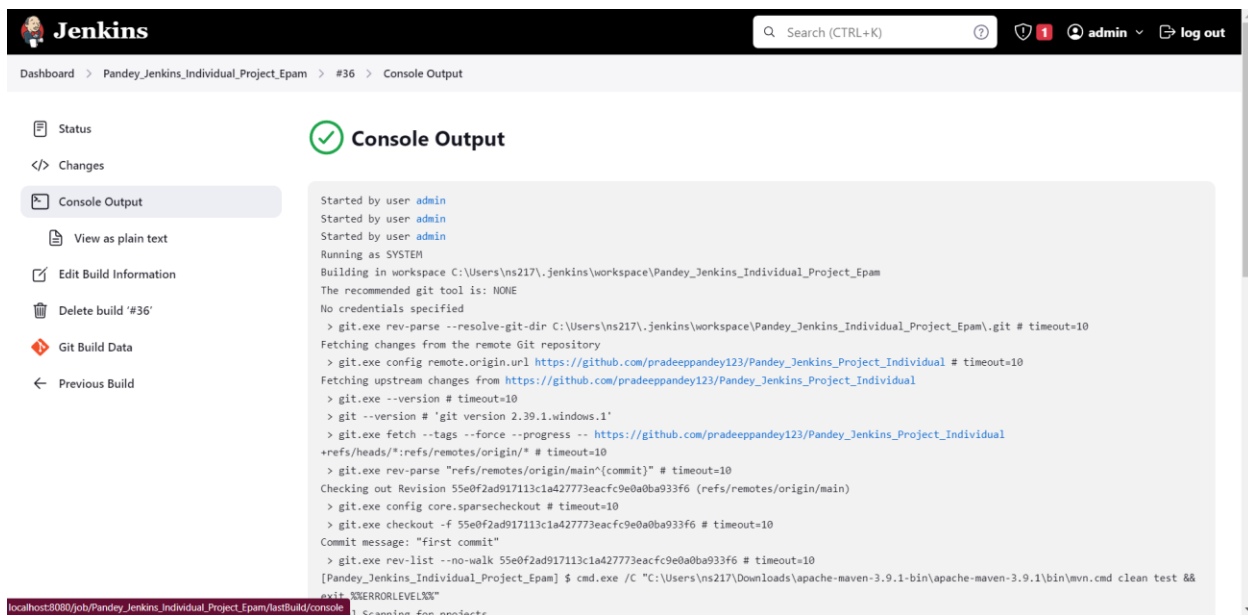
Step 16 :- Jenkins Build Now Successfully



The screenshot shows the Jenkins web interface for the project "Project Epam_Project_Jenkins_Last_Module_Project". The left sidebar contains a menu with options: Status, Changes, Workspace, Build Now, Configure, Delete Project, HTML Report, Rename, and Test Results Analyzer. The main content area displays the project name and a "Build History" section. The build history table shows three successful builds:

Build Number	Timestamp
#32	2 May 2023, 18:10
#31	2 May 2023, 18:05
#30	2 May 2023, 18:00

Step 17 :- Jenkins Console Output



The screenshot shows the Jenkins web interface for the project "Pandey_Jenkins_Individual_Project_Epam", specifically the console output for build #36. The left sidebar contains a menu with options: Status, Changes, Console Output, View as plain text, Edit Build Information, Delete build '#36', Git Build Data, and Previous Build. The main content area displays the console output, which includes the following text:

```
Started by user admin
Started by user admin
Started by user admin
Running as SYSTEM
Building in workspace C:\Users\ns217\.jenkins\workspace\Pandey_Jenkins_Individual_Project_Epam
The recommended git tool is: NONE
No credentials specified
> git.exe rev-parse --resolve-git-dir C:\Users\ns217\.jenkins\workspace\Pandey_Jenkins_Individual_Project_Epam\.git # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/pradeeppandey123/Pandey_Jenkins_Project_Individual # timeout=10
Fetching upstream changes from https://github.com/pradeeppandey123/Pandey_Jenkins_Project_Individual
> git.exe --version # timeout=10
> git --version # 'git version 2.39.1.windows.1'
> git.exe fetch --tags --force --progress -- https://github.com/pradeeppandey123/Pandey_Jenkins_Project_Individual
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision 55e0f2ad917113c1a42773eacfc9e0a0ba933f6 (refs/remotes/origin/main)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 55e0f2ad917113c1a42773eacfc9e0a0ba933f6 # timeout=10
Commit message: "first commit"
> git.exe rev-list --no-walk 55e0f2ad917113c1a42773eacfc9e0a0ba933f6 # timeout=10
[Pandey_Jenkins_Individual_Project_Epam] $ cmd.exe /C "C:\Users\ns217\Downloads\apache-maven-3.9.1-bin\apache-maven-3.9.1\bin\mvn.cmd clean test &&
%* %ERRORLEVEL%"
[ERROR] Scanning for projects
```

Step 18 :- Jenkins Console Output

```
localhost:8080/job/Pandey_Jenkins_Individual_Project_Epam/lastBuild/console
Dashboard > Pandey_Jenkins_Individual_Project_Epam > #36 > Console Output

[INFO]
[INFO] -----< groupId:Final_individual_Jenkin_Project_Pandey >-----
[INFO] Building Final_individual_Jenkin_Project_Pandey 1.0-SNAPSHOT
[INFO]    from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- clean:3.2.0:clean (default-clean) @ Final_individual_Jenkin_Project_Pandey ---
[INFO]
[INFO] --- resources:3.3.0:resources (default-resources) @ Final_individual_Jenkin_Project_Pandey ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\ns217\.jenkins\workspace\Pandey_Jenkins_Individual_Project_Epam\src\main\resources
[INFO]
[INFO] --- compiler:3.10.1:compile (default-compile) @ Final_individual_Jenkin_Project_Pandey ---
[INFO] No sources to compile
[INFO]
[INFO] --- resources:3.3.0:testResources (default-testResources) @ Final_individual_Jenkin_Project_Pandey ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\ns217\.jenkins\workspace\Pandey_Jenkins_Individual_Project_Epam\src\test\resources
[INFO]
[INFO] --- compiler:3.10.1:testCompile (default-testCompile) @ Final_individual_Jenkin_Project_Pandey ---
[INFO] No sources to compile
[INFO]
[INFO] --- surefire:3.0.0:test (default-test) @ Final_individual_Jenkin_Project_Pandey ---
[INFO] No tests to run.
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.956 s
[INFO] Finished at: 2023-05-02T18:17:49+05:30
[INFO] -----
[htmlpublisher] Archiving HTML reports...
[htmlpublisher] Archiving at PROJECT level C:\Users\ns217\.jenkins\workspace\Pandey_Jenkins_Individual_Project_Epam to
```

Step 19 :- Jenkins Console Output

```
Dashboard > Pandey_Jenkins_Individual_Project_Epam > #36 > Console Output

[INFO]
[INFO] --- compiler:3.10.1:compile (default-compile) @ Final_individual_Jenkin_Project_Pandey ---
[INFO] No sources to compile
[INFO]
[INFO] --- resources:3.3.0:testResources (default-testResources) @ Final_individual_Jenkin_Project_Pandey ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\ns217\.jenkins\workspace\Pandey_Jenkins_Individual_Project_Epam\src\test\resources
[INFO]
[INFO] --- compiler:3.10.1:testCompile (default-testCompile) @ Final_individual_Jenkin_Project_Pandey ---
[INFO] No sources to compile
[INFO]
[INFO] --- surefire:3.0.0:test (default-test) @ Final_individual_Jenkin_Project_Pandey ---
[INFO] No tests to run.
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.956 s
[INFO] Finished at: 2023-05-02T18:17:49+05:30
[INFO] -----
[htmlpublisher] Archiving HTML reports...
[htmlpublisher] Archiving at PROJECT level C:\Users\ns217\.jenkins\workspace\Pandey_Jenkins_Individual_Project_Epam to
C:\Users\ns217\.jenkins\jobs\Pandey_Jenkins_Individual_Project_Epam\htmlreports\HTML_20Report
TestNG Reports Processing: START
Looking for TestNG results report in workspace using pattern: **/testng-results.xml
Did not find any matching files.
Finished: SUCCESS

REST API  Jenkins 2.387.2
```