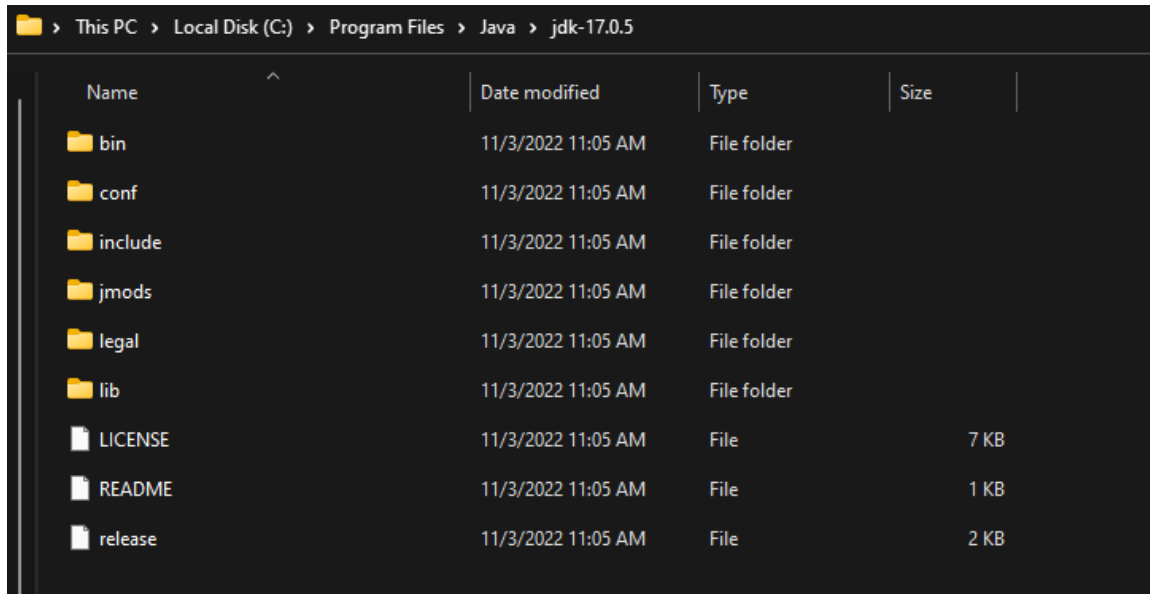


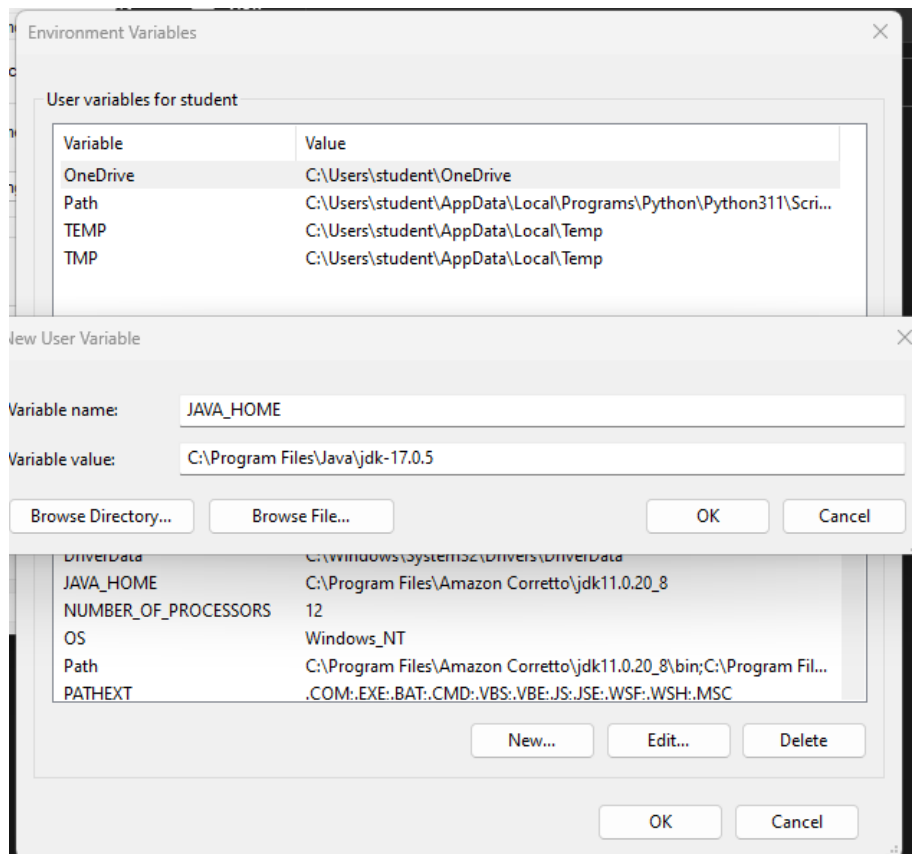
## Exp: 5

AIM:

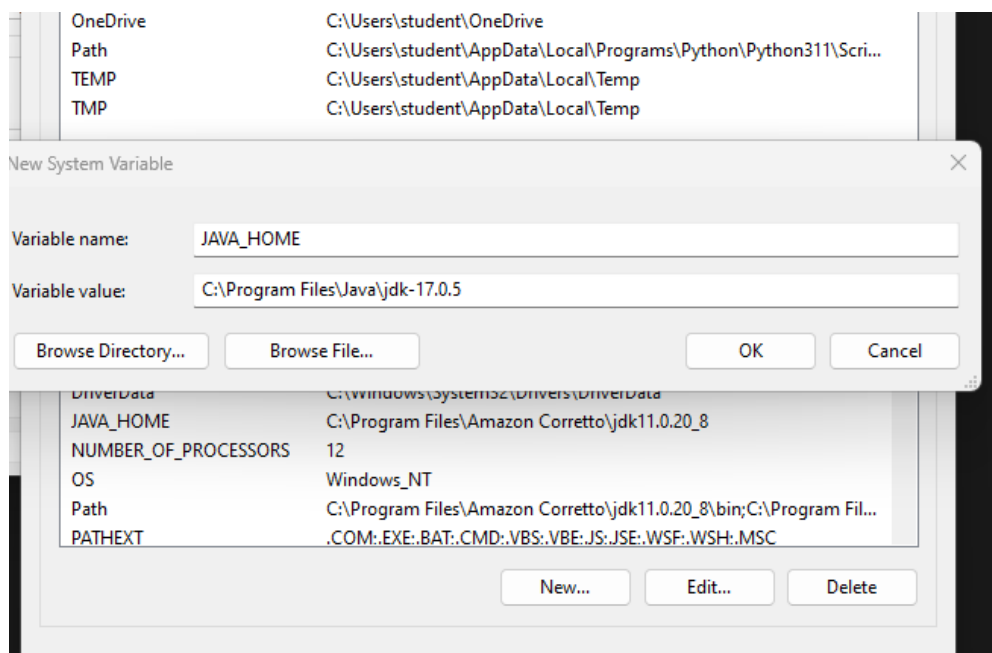
Step 1: Select the path



Step 2: Go to the environment variables , and then select "new" add variable name as well as paste the path in variable value



Step 3: Also do the same in new system variable



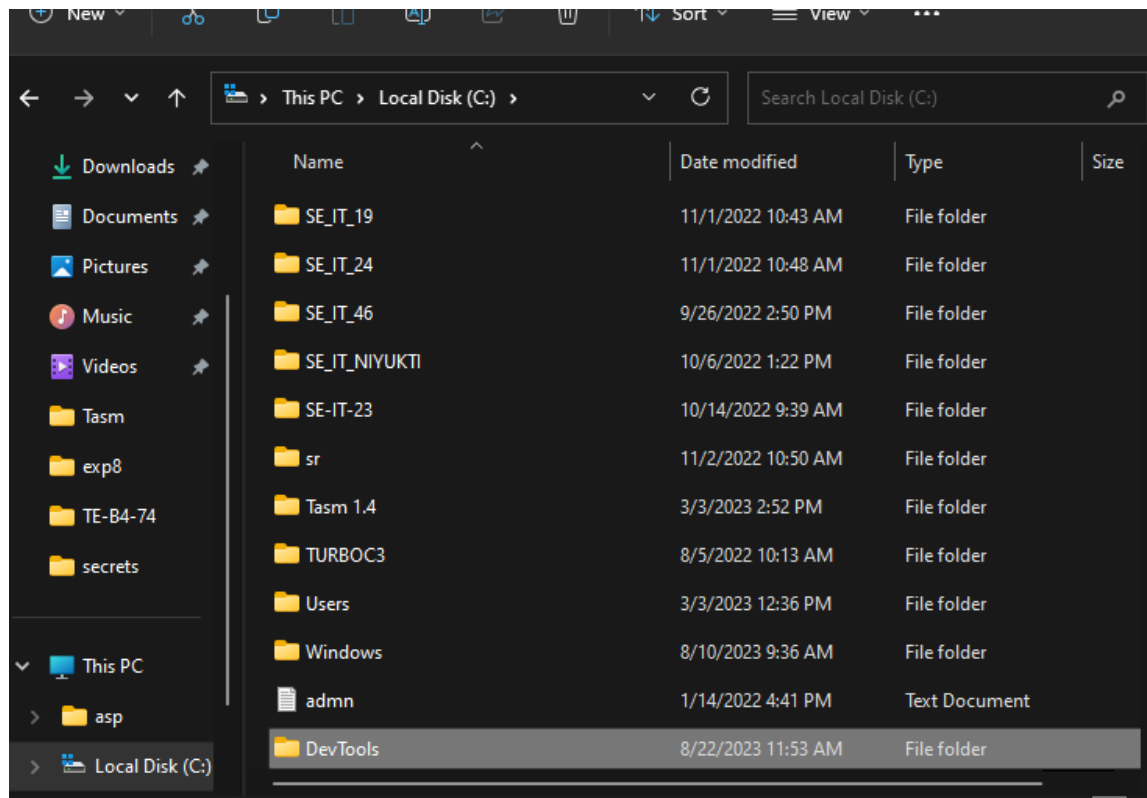
step 4 : <https://maven.apache.org/download.cgi> go to this link and install binary zip archive in link

column.

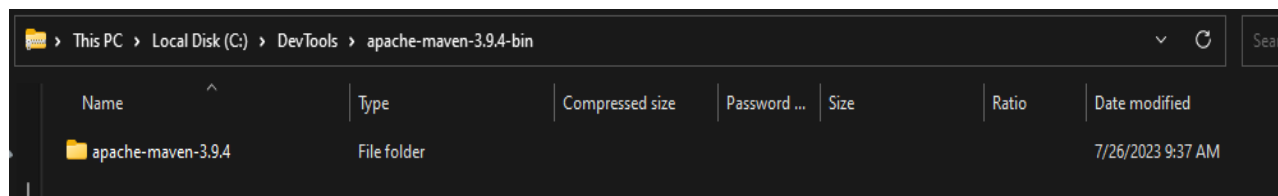
Apache Maven developers.

	Link	Checksums	Signature
Binary tar.gz archive	<a href="#">apache-maven-3.9.4-bin.tar.gz</a>	<a href="#">apache-maven-3.9.4-bin.tar.gz.sha512</a>	<a href="#">apache-maven-3.9.4-bin.tar.gz.asc</a>
Binary zip archive	<a href="#">apache-maven-3.9.4-bin.zip</a>	<a href="#">apache-maven-3.9.4-bin.zip.sha512</a>	<a href="#">apache-maven-3.9.4-bin.zip.asc</a>
Source tar.gz archive	<a href="#">apache-maven-3.9.4-src.tar.gz</a>	<a href="#">apache-maven-3.9.4-src.tar.gz.sha512</a>	<a href="#">apache-maven-3.9.4-src.tar.gz.asc</a>
Source zip archive	<a href="#">apache-maven-3.9.4-src.zip</a>	<a href="#">apache-maven-3.9.4-src.zip.sha512</a>	<a href="#">apache-maven-3.9.4-src.zip.asc</a>

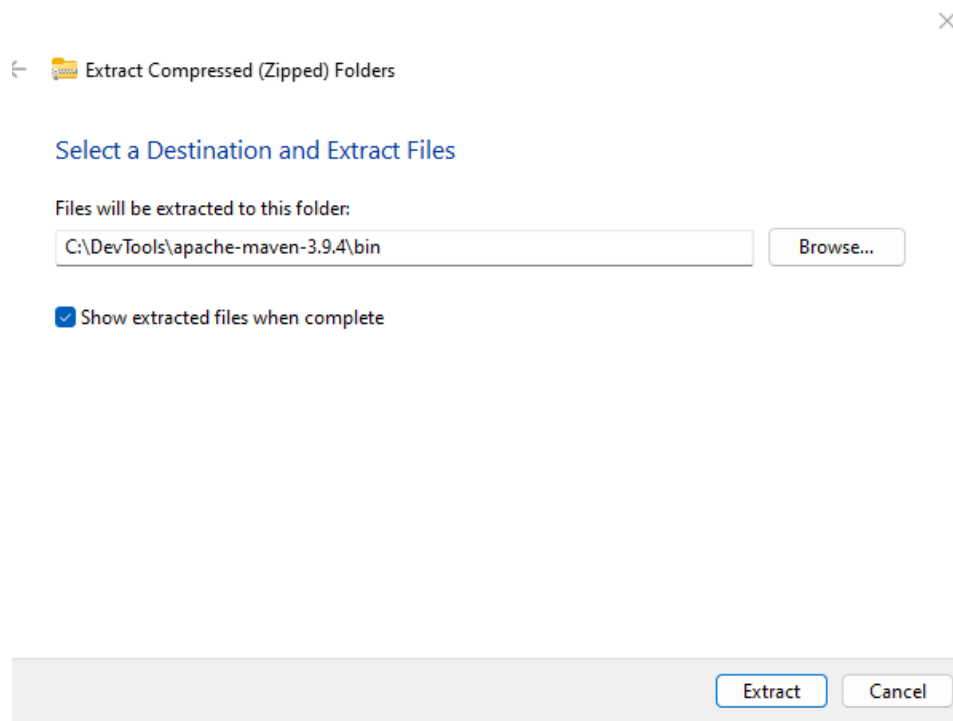
Step 5 : create a folder and name as "DevTools".



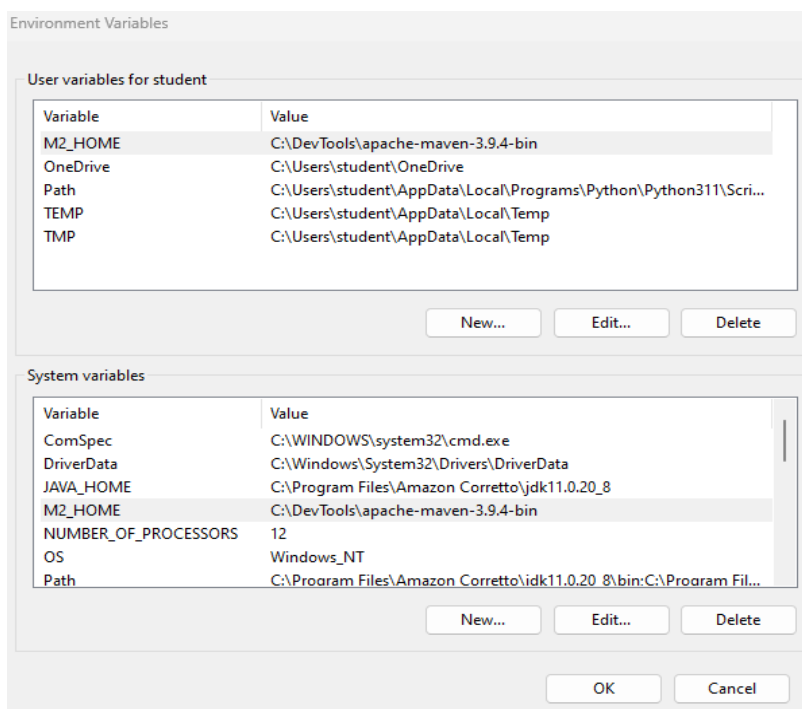
Step 6: select the path.



Step 7 : paste the path.



## Step 8: set environment variables



Step 9 : check the maven version and then open jenkins

```
Command Prompt
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student>mvn --version
Apache Maven 3.9.4 (dfbb324ad4a7c8fb0bf182e6d91b0ae20e3d2dd9)
Maven home: C:\DevTools\apache-maven-3.9.4
Java version: 11.0.20, vendor: Amazon.com Inc., runtime: C:\Program Files\Amazon Corretto\jdk11.0.20_8
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"

C:\Users\student>echo %M2_HOME%
C:\DevTools\apache-maven-3.9.4

C:\Users\student>
```

```
C:\Windows\System32\cmd.e
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student\Downloads>java -jar jenkins.war
Running from: C:\Users\student\Downloads\jenkins.war
webroot: C:\Users\student\.jenkins\war
2023-08-22 06:55:33.590+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2023-08-22 06:55:33.652+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2023-08-22 06:55:33.699+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-10.0.13; built: 2022-12-0
7T20:13:20.134Z; git: 1c2636ea05c0ca8de1ffd6ca7f3a98ac084c766d; jvm 11.0.20+8-LTS
2023-08-22 06:55:35.066+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /,
did not find org.eclipse.jetty.jsp.JettyJspServlet
2023-08-22 06:55:35.129+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: Session workerName=node0
2023-08-22 06:55:35.567+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: C:\Users\s
```

step 10 : go to jenkins.

The screenshot shows the Jenkins dashboard. At the top, there's a search bar and a user profile for 'Afza Phaltankar'. The main content area is divided into a sidebar on the left and a main panel. The sidebar includes links for 'New Item', 'People', 'Build History', 'Manage Jenkins', and 'My Views'. The main panel shows a table of builds in the queue. The table has columns for 'S' (Status), 'W' (Web icon), 'Name', 'Last Success', 'Last Failure', and 'Last Duration'. There are two builds listed: 'abc' and 'build'. The 'build' build is in the queue and has a duration of 0.2 sec. Below the table, there's a section for 'Build Queue' which is currently empty. At the bottom, there's a section for 'Build Executor Status' showing two idle executors.

S	W	Name	Last Success	Last Failure	Last Duration
⊗	☁	abc	N/A	27 days #2	0.15 sec
⊙	☀	build	27 days #1	N/A	0.2 sec

step 11: click on mange jenkins.

Search (CTRL+K)

1

2

Afza Phaltankar

log out

Dashboard > Manage Jenkins

New Item

People

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Manage Jenkins

Search settings

New version of Jenkins (2.414.1) is available for [download](#) ([changelog](#)).

Or Upgrade Automatically

Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#).

Set up agent

Set up cloud

Dismiss

Warnings have been published for the following currently installed components:

Go to plugin manager

Configure which of these warnings are shown

Folders Plugin 6.815.v0dd5a\_cb\_40e0e:

CSRF vulnerability

CSRF vulnerability may approve unsandboxed scripts

Information disclosure

Fixes for all of these issues are available. Go to the [plugin manager](#) to update the plugin.

System Configuration

step 12 : click on plugins

System

Configure global settings and paths.

Tools

Configure tools, their locations and automatic installers.

22 Plugins

Add, remove, disable or enable plugins that can extend the functionality of Jenkins.

Nodes and Clouds

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

Install as Windows Service

Installs Jenkins as a Windows service to this system, so that Jenkins starts automatically when the machine boots.

Security

Security

Secure Jenkins; define who is allowed to access/use the system.

Credentials

Configure credentials

Credential Providers

Configure the credential providers and types

..

step 13 : type maven integration and select the checkbox and then click on download.

## Plugins

<input checked="" type="checkbox"/>	Name ↓	Released	Installed
-------------------------------------	--------	----------	-----------

Download now and install after restart

Update information obtained: 21 min ago

Check now

step 14 : it will start downloading

### Download progress

#### Preparation


- Checking internet connectivity
- Checking update center connectivity
- Success

Apache HttpComponents Client 4.x API	⚠ Downloaded Successfully. Will be activated during the next boot
Caffeine API	⚠ Downloaded Successfully. Will be activated during the next boot
commons-lang3 v3.x Jenkins API	⚠ Downloaded Successfully. Will be activated during the next boot
commons-text API	⚠ Downloaded Successfully. Will be activated during the next boot
Display URL API	⚠ Downloaded Successfully. Will be activated during the next boot
Durable Task	⚠ Downloaded Successfully. Will be activated during the next boot
Folders	⚠ Downloaded Successfully. Will be activated during the next boot
OkHttp	⋮ Installing
Token Macro	⋮ Pending
GitHub	⋮ Pending
LDAP	⋮ Pending
Matrix Authorization Strategy	⋮ Pending
Matrix Project	⋮ Pending
OkHttp	⋮ Pending
Pipeline: API	⋮ Pending
Script Security	⋮ Pending


step 15 : go to new item and give name and then select maven project and click ok.

**Enter an item name**


*» Required field*

**Freestyle project**


This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Maven project**


Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

**Pipeline**

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**Multi-configuration project**

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

**Folder**

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

step 16 : select git radio button then type the url.

**Repositories ?**

**Repository URL ?**

**Credentials ?**

**Advanced**

step 17: now apply and save



Add post-build step ▾

## Build Settings

☐ E-mail Notification


## Post-build Actions

Add post-build action ▾

Save

Apply

Step 18 : go to dashboard

 **Jenkins**

Search (CTRL+K) ? 🔔 1 🛡️ 2

Dashboard >

+ New Item

👤 People

📁 Build History

🕒 Project Relationship

🔍 Check File Fingerprint

⚙️ Manage Jenkins

Build Queue ▾

No builds in the queue.

Build Executor Status ▾

1 Idle

2 Idle

All +

S	W	Name ↓	Last Success	Last Failure	Last Duration
❌	☁️	abc	N/A	27 days #2	0.15 sec ▶
✅	☀️	build	27 days #1	N/A	0.2 sec ▶
✅	☁️	maven 74	1 min 31 sec #2	16 min #1	13 sec ▶

Icon: S M L

Icon legend

📡 Atom feed for all

📡 Atom feed for failures

📡 Atom feed for just latest builds

Add description

Step 19 : click on your status for eg : “maven 74” , to console output. Hence its successful

```
Dashboard > maven 74 > #2 > Console Output

[INFO] Server ..... SUCCESS [ 4.584 s]
[INFO] Webapp ..... SUCCESS [ 1.861 s]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 8.214 s
[INFO] Finished at: 2023-09-05T07:41:07+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\student\.jenkins\workspace\maven 74\webapp\pom.xml to com.example.maven-project/webapp/1.0-SNAPSHOT/webapp-1.0-SNAPSHOT.pom
[JENKINS] Archiving C:\Users\student\.jenkins\workspace\maven 74\webapp\target\webapp.war to com.example.maven-project/webapp/1.0-SNAPSHOT/webapp-1.0-SNAPSHOT.war
[JENKINS] Archiving C:\Users\student\.jenkins\workspace\maven 74\server\pom.xml to com.example.maven-project/server/1.0-SNAPSHOT/server-1.0-SNAPSHOT.pom
[JENKINS] Archiving C:\Users\student\.jenkins\workspace\maven 74\server\target\server.jar to com.example.maven-project/server/1.0-SNAPSHOT/server-1.0-SNAPSHOT.jar
[JENKINS] Archiving C:\Users\student\.jenkins\workspace\maven 74\pom.xml to com.example.maven-project/maven-project/1.0-SNAPSHOT/maven-project-1.0-SNAPSHOT.pom
channel stopped
Finished: SUCCESS
```

