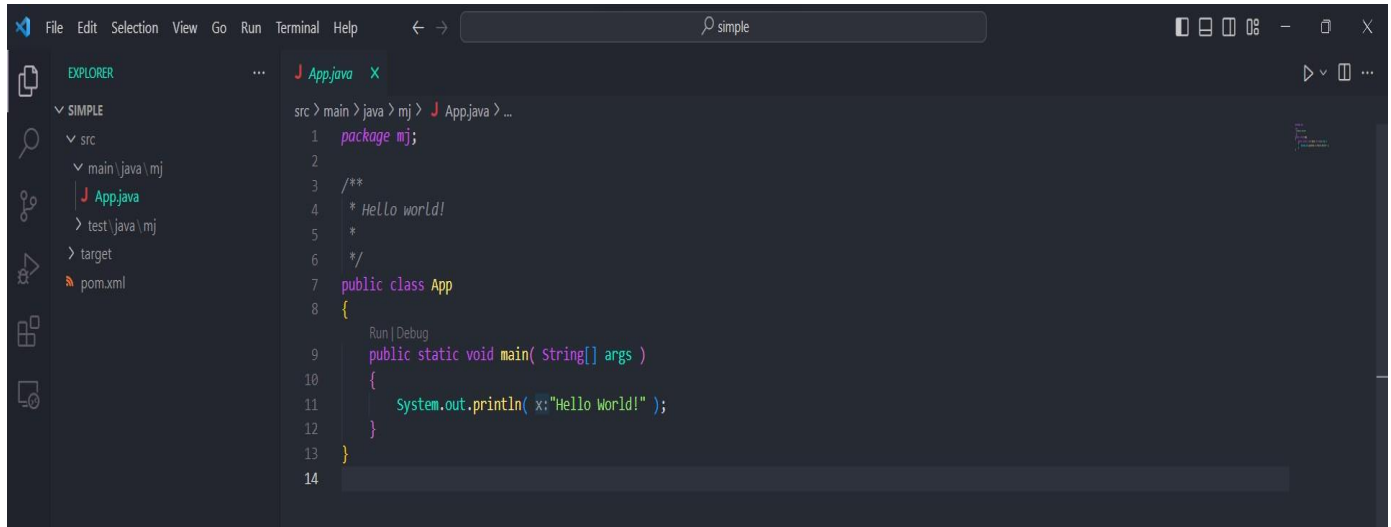


Experiment -1 (Setting Up a Jenkins Job for Maven Build)

Objective: Create a Jenkins Job that builds a maven project using Jenkins and triggers build on changes in the version control repository.

1. Create a basic maven Project.



The screenshot shows an IDE with a project named 'SIMPLE'. The file explorer on the left shows the project structure: 'src' > 'main' > 'java' > 'mj' > 'App.java'. The main editor displays the code for 'App.java'.

```
src > main > java > mj > App.java > ...
1 package mj;
2
3 /**
4  * Hello world!
5  *
6  */
7 public class App
8 {
9     Run | Debug
10    public static void main( String[] args )
11    {
12        System.out.println( x:"Hello World!" );
13    }
14 }
```

2. Push the Maven project to GitHub repository.

	smriti243 Update MyCalss.java	✓ 8b36850 on Sep 26	🕒 13 commits
📁 .github/workflows	Update cicd.yml		3 months ago
📁 .settings	GitHub Actions		3 months ago
📁 src/main/java/devops/b3/cicd/lab3	Update MyCalss.java		3 months ago
📄 .classpath	GitHub Actions		3 months ago
📄 .gitignore	GitHub Actions		3 months ago
📄 .project	GitHub Actions		3 months ago
📄 Dockerfile	Update Dockerfile		3 months ago
📄 pom.xml	GitHub Actions		3 months ago

3. Create a Jenkins Pipeline

→ make sure that Maven Integration Plugin is installed in Jenkins

S	W	Name ↓	Last Success	Last Failure	Last Duration	
...	☀	Lab1	N/A	N/A	N/A	▶

Large

4. Check Git in the SCM checkbox list.

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/smriti243/CICD-LAB-3-4

5. Ensure the Build trigger are setup

☒ Poll SCM ?

Schedule ?

* * * * *

6. Add a pom file's path and maven command in the Build section.

Build

Root POM ?

pom.xml

Goals and options ?

install

Advanced ▾

7. Click on Build Now from the Pipeline Dashboard

```
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\Lab1
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir C:\ProgramData\Jenkins\.jenkins\workspace\Lab1\.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/smriti243/CICD-LAB-3-4 # timeout=10
Fetching upstream changes from https://github.com/smriti243/CICD-LAB-3-4
> git --version # timeout=10
> git --version # 'git version 2.42.0.windows.2'
> git fetch --tags --force --progress -- https://github.com/smriti243/CICD-LAB-3-4 +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision 8b36850871f65ef6fb7c50bae899486ba838a8f4 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 8b36850871f65ef6fb7c50bae899486ba838a8f4 # timeout=10
Commit message: "Update MyCalss.java"
```