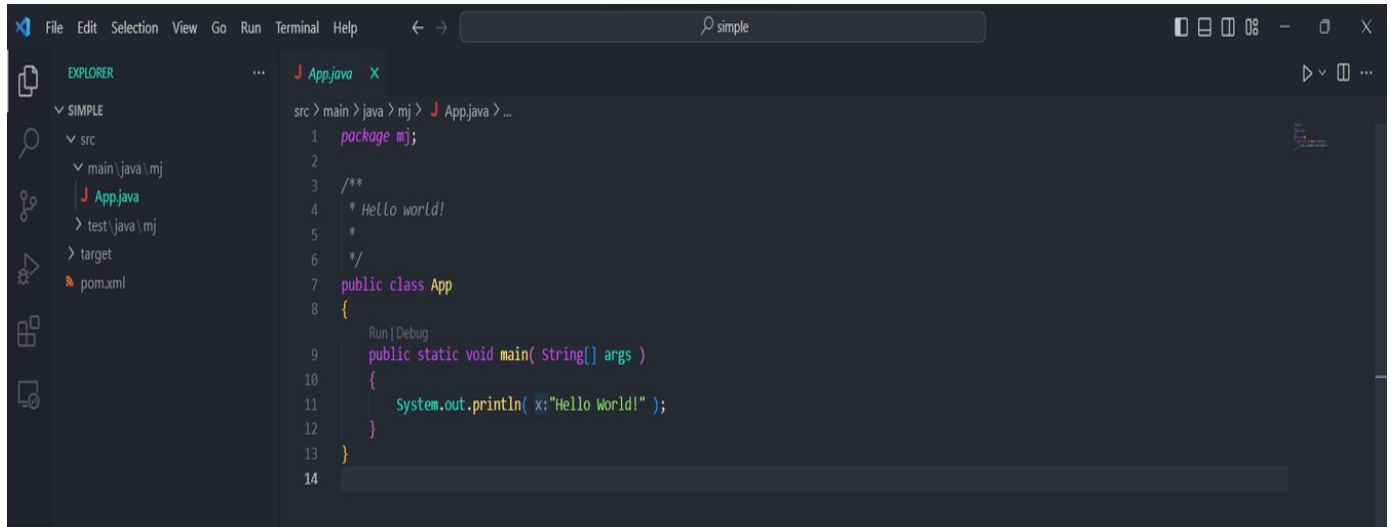


Experiment -1 (Setting Up a Jenkins Job for Maven Build)

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 window with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with a 'src' directory containing 'main/java/mj' and 'test/java/mj' subdirectories. The code editor displays the content of 'App.java', which is a simple Java program that prints 'Hello World!'.

```
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.



The screenshot shows a GitHub repository page for user 'ghanshree2311'. The repository name is 'Update MyCalss.java'. The page shows a list of files and folders in the repository, including '.github/workflows', '.settings', 'src/main/java/devops/b3/cicd/lab3', '.classpath', '.gitignore', '.project', 'Dockerfile', and 'pom.xml'. Each item is listed with its name, the commit message, and the time since the last commit (all 3 months ago).

File/Folder	Commit Message	Time
.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/hanshree23/QICD-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/ghanshree231/CICD-LAB-3-4 # timeout=10
Fetching upstream changes from https://github.com/ghanshree231/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"
```