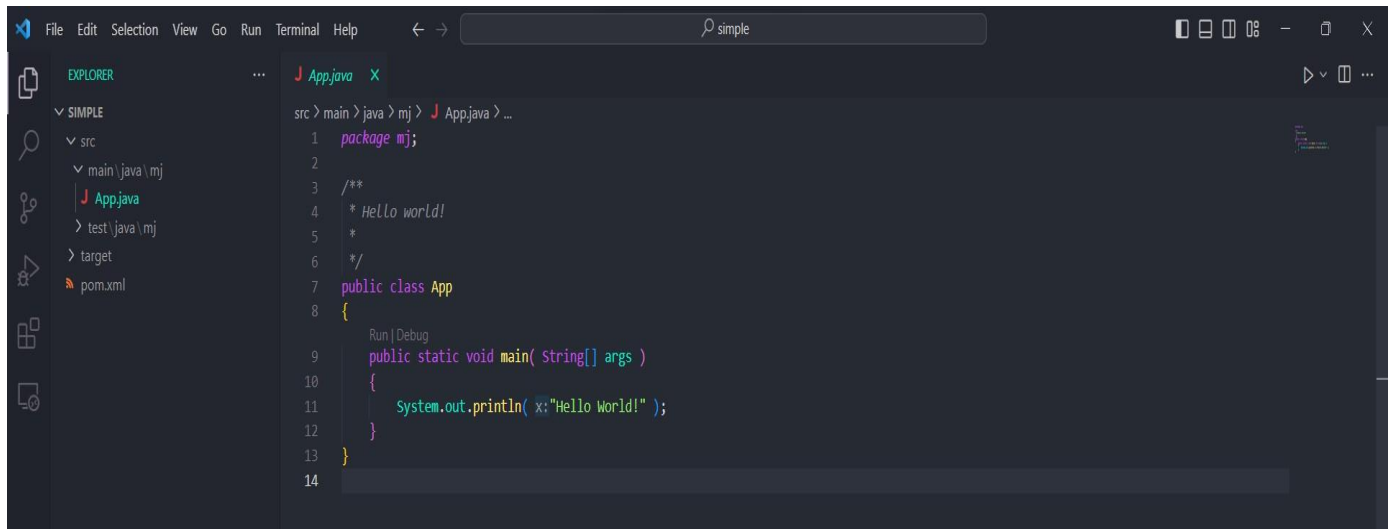


# Experiment -1 (Setting Up a Jenkins Job for Maven Build)

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

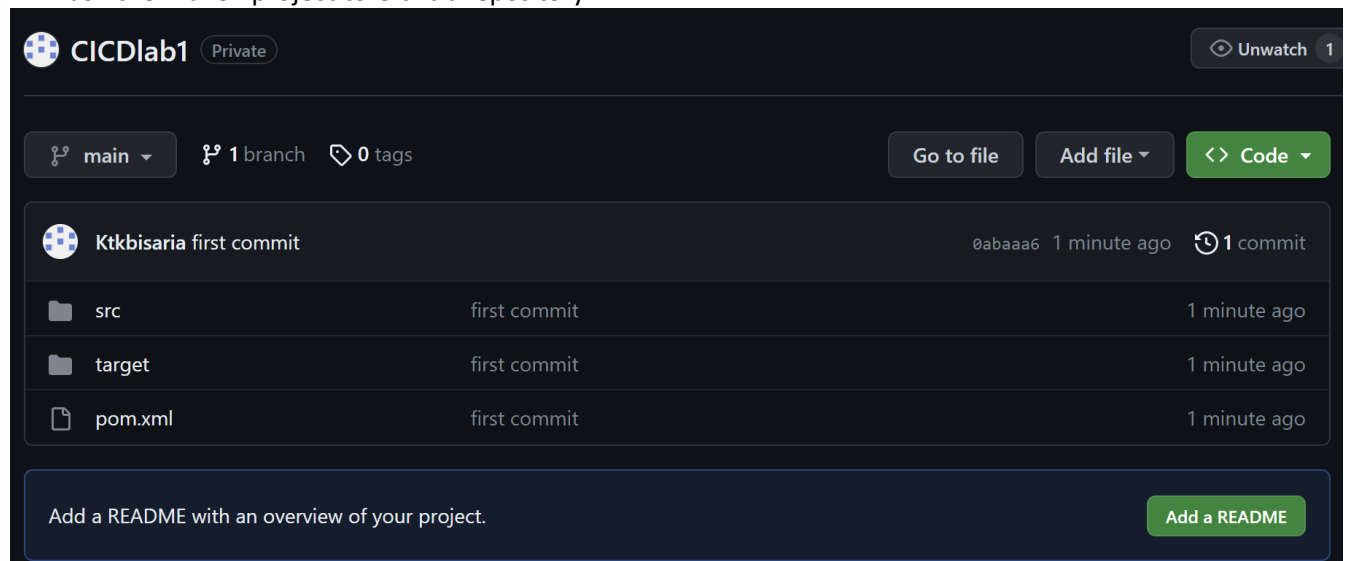
1. Create a basic maven Project.



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':

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

2. Push the Maven project to GitHub repository.



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 the GitHub project Checkbox and add GitHub Repo link.

☒ GitHub project

Project url ?

https://github.com/Ktkbisaria/CICDlab1

Advanced ▾

5. Check Git in the SCM checkbox list.

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/Ktkbisaria/CICDlab1

Credentials ?

6. Ensure the Build trigger are setup

☒ Poll SCM ?

Schedule ?

\* \* \* \* \*

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

Build

Root POM ?

pom.xml

Goals and options ?

install

Advanced ▾

8. Click on Build Now from the Pipeline Dashboard



## Console Output

```
Started by user kartikay bisaria
Running as SYSTEM
Building in workspace C:\Users\ASUS\.jenkins\workspace\CICDlab1
Unpacking https://repo.maven.apache.org/maven2/org/apache/maven/apache-maven/3.9.5/apache-maven-3.9.5-bin.zip to
C:\Users\ASUS\.jenkins\tools\udson.tasks.Maven_MavenInstallation\Maven on Jenkins
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Ktkbisaria/CICDlab1
  > git.exe init C:\Users\ASUS\.jenkins\workspace\CICDlab1 # timeout=10
Fetching upstream changes from https://github.com/Ktkbisaria/CICDlab1
  > git.exe --version # timeout=10
  > git --version # 'git version 2.37.3.windows.1'
  > git.exe fetch --tags --force --progress -- https://github.com/Ktkbisaria/CICDlab1 +refs/heads/*:refs/remotes/origin/* # timeout=10
  > git.exe config remote.origin.url https://github.com/Ktkbisaria/CICDlab1 # timeout=10
  > git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
  > git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision 0abaaa64b9413c1c90c2c5ff8f9304f8e2539422 (refs/remotes/origin/main)
  > git.exe config core.sparsecheckout # timeout=10
```