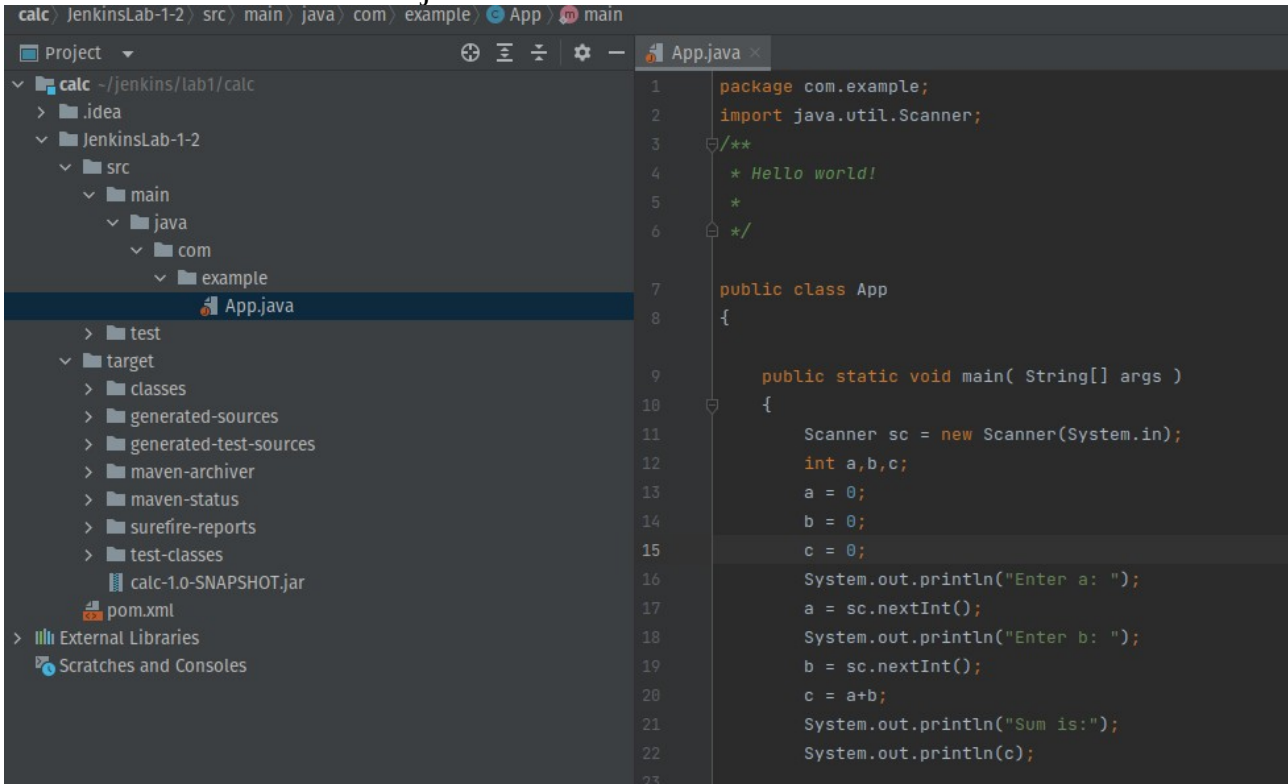


Experiment -1 (Setting Up a Jenkins Job for Maven Build)

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

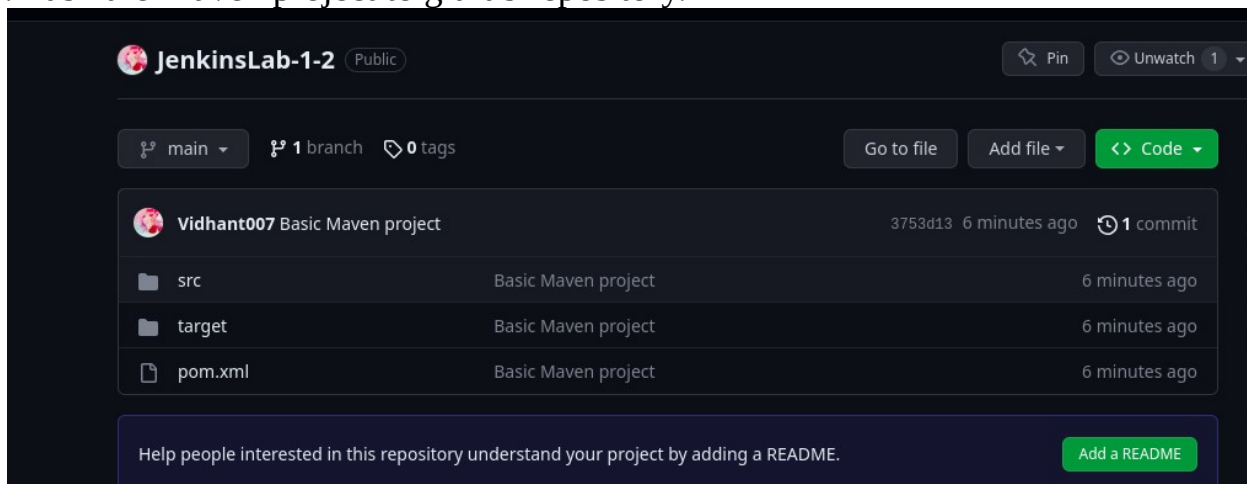
1. Create a basic maven Project.



The screenshot shows an IDE with a project named 'calc' located at '~\jenkins\lab1\calc'. The project structure includes a 'src' directory with 'main' and 'test' subdirectories, and a 'target' directory with various build artifacts. A file named 'App.java' is selected in the 'src/main/java/com/example' package. The code in 'App.java' is as follows:

```
1 package com.example;
2 import java.util.Scanner;
3 /**
4  * Hello world!
5  *
6  */
7 public class App
8 {
9     public static void main( String[] args )
10    {
11        Scanner sc = new Scanner(System.in);
12        int a,b,c;
13        a = 0;
14        b = 0;
15        c = 0;
16        System.out.println("Enter a: ");
17        a = sc.nextInt();
18        System.out.println("Enter b: ");
19        b = sc.nextInt();
20        c = a+b;
21        System.out.println("Sum is:");
22        System.out.println(c);
23    }
```

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
...	☀	CICD-lab1	N/A	N/A

4. Check the Github project Checkbox and add Github Repo link.

☒ **GitHub project** ?

Project url ?

Advanced ▾

5. Check Git in the SCM checkbox list.

☒ **Git** ?

Repositories ?

Repository URL ?

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.

Root POM ?

Goals and options ?

8. Click on Build Now from the Pipeline Dashboard

Dashboard > CICD-lab1 > #5 > Console Output


Status

Changes

Console Output

View as plain text

Edit Build Information

 **Console Output**

Started by user [Vidhant Maan Thapa](#)
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/CICD-lab1
The recommended git tool is: NONE
No credentials specified