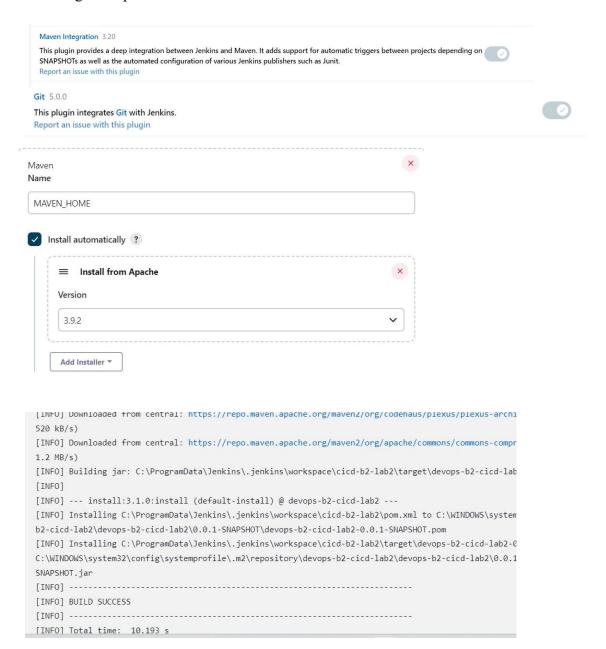
<u>500093657, R2142210596, DEVOPS B2 3RD YEAR</u> <u>EXPERIMENT - 2</u>

Aim: Creating a Jenkins Pipeline with a Jenkins file.

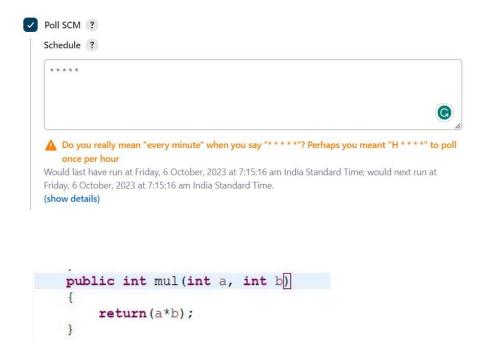
1. Create a Maven Project in eclipse.

```
📓 devops-b2-cicd-lab2/pom.xml 🗡 🔑 MyCalc.java
 1⊖project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.v
       <modelVersion>4.0.0</modelVersion>
 3
      <groupId>devops-b2-cicd-lab2
 4
      <artifactId>devops-b2-cicd-lab2</artifactId>
 5
      <version>0.0.1-SNAPSHOT</version>
 6
 70
    properties>
 8
           <maven.compiler.source>17</maven.compiler.source>
 9
           <maven.compiler.target>17</maven.compiler.target>
10
       </properties>
11
13 /project>
```

2. Push the project on GitHub and add the Maven integration and Git plugin in Jenkins, config the repo and make a build



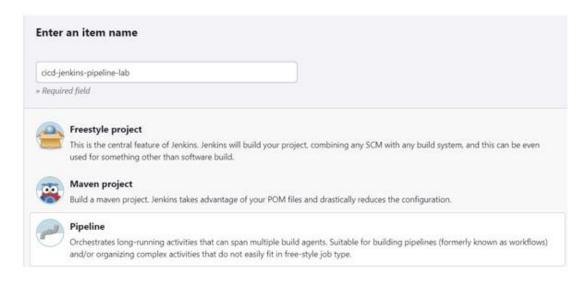
3. Edit the code, add the mul function and add Poll SCM in Jenkins configuration then again commit and push it.





4. Add Jenkins file then commit and push it, In Jenkins make pipeline add configure it. When created, the pipeline will start.

```
1 pipeline {
        agent any
        tools {
       maven 'MAVEN_HOME'
       stages {
           stage('Stage1: Hello Clean Stage 1') {
  8
               steps {
                  bat 'mvn clean'
  9
  10
  11
               }
  12
           stage ('Stage 2: Test Stage') {
  13
               steps {
  14
15
                   bat 'mvn test'
  16
17
18
              }
           stage ('Stage 3: My Package'){
               steps {
                   bat 'mvn package'
  19
 20
21
22
23
24
                   }
               }
           stage ('Stage 4: My Final Build Stage'){
               steps {
                  bat 'mvn install'
  25
 26
27
               }
           stage ('Stage Final: Build Success') {
  28
              steps {
                  echo 'Build Success!'
 29
  30
  31
               }
  32
  33
```





Stage View

| | Declarative: Checkout SCM | Declarative: Tool Install | Stage1: Hiii Clean Stage 1 testing | Stage 3: My Package | Stage 4: My Final Build Stage | Stage Final: Build Success |
|--|------------------------------|------------------------------|--|------------------------|-------------------------------------|-------------------------------|
| Average stage times: (Average <u>full</u> run time: ~19s) | 2s | 153ms | 4s | 5s | 4s | 234ms |
| Oct 06 2 commits | 2s | 153ms | 4s | 5s | 4s | 234ms |