

500093657, R2142210596, DEVOPS B2 3RD YEAR

LAB EXERCISE - 1

Aim:

1. Create a Maven Project in eclipse.

```
MyCalculator.java × devops-b2-cicd-lab1/pom.xml
1 package mypkg;
2
3 public class MyCalculator {
4
5     public int sum(int a, int b)
6     {
7         return(a+b);
8     }
9
10    public int diff(int a, int b)
11    {
12        return(a-b);
13    }
14    public static void main(String[] args) {
15
16        MyCalculator calc = new MyCalculator ();
17        System.out.println("Sum is "+calc.sum(20, 10));
18        System.out.println("Diff is "+calc.diff(20, 10));
19
20    }
21
22 }
23 }
```

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3
2 <modelVersion>4.0.0</modelVersion>
3 <groupId>devops-b2-cicd-lab1</groupId>
4 <artifactId>devops-b2-cicd-lab1</artifactId>
5 <version>0.0.1-SNAPSHOT</version>
6
7 <properties>
8 <maven.compiler.source>1.8</maven.compiler.source>
9 <maven.compiler.target>1.8</maven.compiler.target>
10 </properties>
11
12
13 <dependencies>
14 <dependency>
15 <groupId>junit</groupId>
16 <artifactId>junit</artifactId>
17 <version>4.13</version>
18 <scope>test</scope>
19 </dependency>
20
21 <dependency>
22 <groupId>org.sonarsource.scanner.maven</groupId>
23 <artifactId>sonar-maven-plugin</artifactId>
24 <version>3.9.0.2155</version>
25 </dependency>
26 </dependencies>
27
28
29 <build>
30 <finalName>my-calculator</finalName>
31 <plugins>
32 <plugin>
33 <!-- Build an executable JAR test ABC-->
34 <groupId>org.apache.maven.plugins</groupId>
35 <artifactId>maven-jar-plugin</artifactId>
36 <version>3.1.0</version>
37 <configuration>
38 <archive>
39 <manifest>
40 <addClasspath>true</addClasspath>
41 <classpathPrefix>lib</classpathPrefix>
42 <mainClass>mypkg.MyCalculator</mainClass>
43 </manifest>
44 </archive>
45 </configuration>
46 </plugin>
47 </plugins>
48 </build>
49
50
51 </project>
```

2. Push the project on GitHub & Start Jenkins, add maven Integration Plugin and create a maven project name as “Cicd-lab1” and add URL of our repo in github and configure it & build it

Git ?

Repositories ?

Repository URL ?

https://github.com/priyansh-c-choudhary/CICD-LAB1

Credentials ?

- none -

+ Add

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/main

Build

Root POM ?

pom.xml

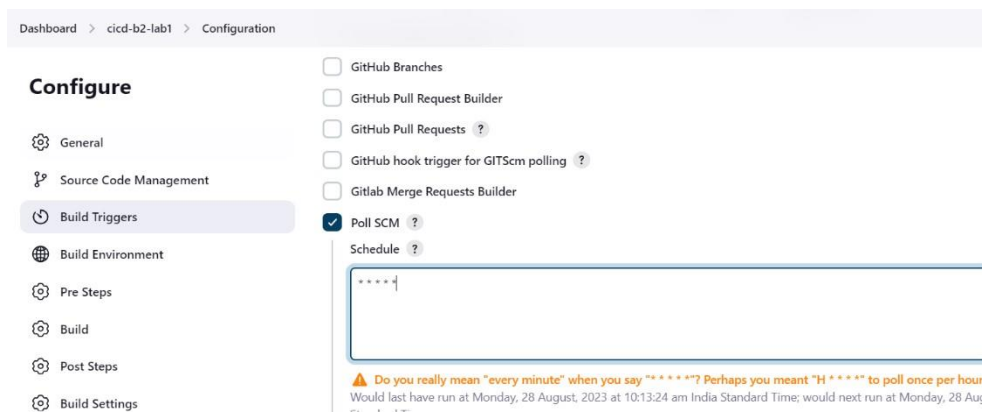
Goals and options ?

install

```
> cicd-b2-lab1 > #1 > Console Output

[INFO] --- jar:3.1.0:jar (default-jar) @ devops-b2-cicd-lab1 ---
[INFO] Building jar: C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\target\my-calculator.jar
[INFO] --- install:3.1.1:install (default-install) @ devops-b2-cicd-lab1 ---
[INFO] Installing C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\pom.xml to C:\WINDOWS\system32\config\systemprofile\.m2\repository\devops-b2-cicd-lab1\0.0.1-SNAPSHOT\pom
[INFO] Installing C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\target\my-calculator.jar to C:\WINDOWS\system32\config\systemprofile\.m2\repository\devops-b2-cicd-lab1\devops-b2-cicd-lab1\0.0.1-SNAPSHOT.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 16.854 s
[INFO] Finished at: 2023-08-28T10:07:20+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\pom.xml to devops-b2-cicd-b2-cicd-lab1-0.0.1-SNAPSHOT\pom
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\target\my-calculator.jar to devops-b2-cicd-lab1-0.0.1-SNAPSHOT\devops-b2-cicd-lab1-0.0.1-SNAPSHOT.jar
channel stopped
[Gitea Checks] Causes for no suitable publisher found:
[Gitea Checks] Trying to resolve checks parameters from Gitea SCM...
[Gitea Checks] Job does not use Gitea SCM
[Gitea Checks] Trying to resolve checks parameters from Git SCM...
[Gitea Checks] No credentials found
[Gitea Checks] Job does not have valid credentials
[Checks API] No suitable checks publisher found.
Finished: SUCCESS
```

3. Edit the code & add Poll SCM in the Jenkins configuration



4. After push automatic build will initiate.

> cicd-b2-lab1 > #2 > Console Output

```
[JENKINS] recording test results
[INFO]
[INFO] --- jar:3.1.0:jar (default-jar) @ devops-b2-cicd-lab1 ---
[INFO] Building jar: C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\target\my-calculator.jar
[INFO]
[INFO] --- install:3.1.1:install (default-install) @ devops-b2-cicd-lab1 ---
[INFO] Installing C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\pom.xml to C:\WINDOWS\system32\config\systemprofile\.m2\repository\devops-b2-cicd-lab1\0.0.1-SNAPSHOT\pom
[INFO] Installing C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\target\my-calculator.jar to C:\WINDOWS\system32\config\systemprofile\.m2\repository\devops-b2-cicd-lab1\0.0.1-SNAPSHOT\my-calculator.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.931 s
[INFO] Finished at: 2023-08-28T10:19:24+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\pom.xml to devops-b2-cicd-b2-cicd-lab1-0.0.1-SNAPSHOT\pom
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\cicd-b2-lab1\target\my-calculator.jar to devops-b2-cicd-lab1-0.0.1-SNAPSHOT\devops-b2-cicd-lab1-0.0.1-SNAPSHOT\my-calculator.jar
channel stopped
[Gitea Checks] Causes for no suitable publisher found:
[Gitea Checks] Trying to resolve checks parameters from Gitea SCM...
[Gitea Checks] Job does not use Gitea SCM
```

✓ #2

| [Aug 28, 2023, 10:19 AM](#)

✓ #1

| [Aug 28, 2023, 10:06 AM](#)