

School of Computer Science

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES DEHRADUN, UTTARAKHAND

Continuous Integration and
Continuous Delivery Lab

Lab File
(2023-2024
)

for

5th Semester

Submitted To:

Dr. Hitesh K.Sharma

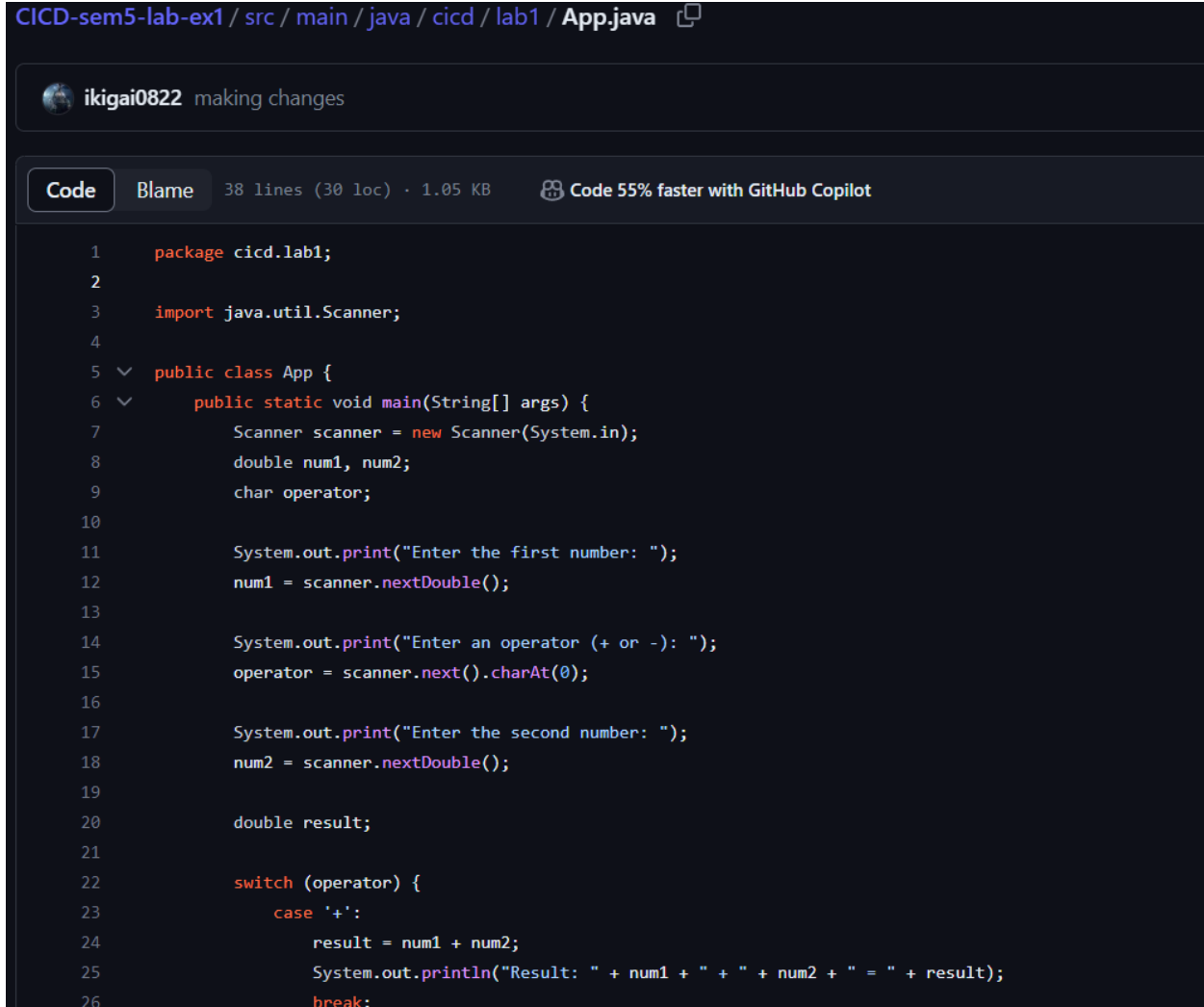
Submitted By:

Gopika Jhanwar

B. Tech. CSE
[DevOps] 500093662
R2142210318
B2- Devops (Non-Hons)

LAB EXERCISE - 1

Aim:



The screenshot shows a GitHub repository named 'cicd-sem5-lab-ex1' with a file 'App.java' in the path 'src/main/java/cicd/lab1'. The file is 38 lines long (30 loc) and 1.05 KB. It is a Java program that takes two numbers and an operator as input and calculates the result. The code is as follows:

```
1 package cicd.lab1;
2
3 import java.util.Scanner;
4
5 public class App {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8         double num1, num2;
9         char operator;
10
11         System.out.print("Enter the first number: ");
12         num1 = scanner.nextDouble();
13
14         System.out.print("Enter an operator (+ or -): ");
15         operator = scanner.next().charAt(0);
16
17         System.out.print("Enter the second number: ");
18         num2 = scanner.nextDouble();
19
20         double result;
21
22         switch (operator) {
23             case '+':
24                 result = num1 + num2;
25                 System.out.println("Result: " + num1 + " + " + num2 + " = " + result);
26                 break;
```

Start Jenkins and add maven Integration Plugin and create a maven project name as “Cicd-lab1” and add URL of our repo in github and configure it.

Source Code Management

☐ None

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/ikigai0822/CICD-sem5-lab-ex1.git

Credentials ?

- none -

+ Add ▾

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/main

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add ▾

Build Triggers

- ☐ Build whenever a SNAPSHOT dependency is built ?
- ☐ Trigger builds remotely (e.g., from scripts) ?
- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☐ GitHub hook trigger for GITScm polling ?
- ☒ Poll SCM ?

Schedule ?

H * * * *

Would last have run at Sunday, December 3, 2023 at 7:16:49 PM India Standard Time;

```
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.jar (121 kB at 4.0 MB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/classworlds/classworlds/1.1-alpha-2/classworlds-1.1-alpha-2.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/classworlds/classworlds/1.1-alpha-2/classworlds-1.1-alpha-2.jar (38 kB at 1.1 MB/s)
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar (155 kB at 3.6 MB/s)
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar (233 kB at 5.4 MB/s)
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar (239 kB at 4.7 MB/s)
[INFO] Installing C:\ProgramData\Jenkins\.jenkins\workspace\explicid\target\demo-0.01.jar to
C:\Windows\system32\config\systemprofile\.m2\repository\cid\lab1\demo\0.01\demo-0.01.jar
[INFO] Installing C:\ProgramData\Jenkins\.jenkins\workspace\explicid\pom.xml to
C:\Windows\system32\config\systemprofile\.m2\repository\cid\lab1\demo\0.01\demo-0.01.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 18.456 s
[INFO] Finished at: 2023-12-03T19:23:29+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\explicid\pom.xml to cid.lab1/demo/0.01/demo-0.01.pom
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\workspace\explicid\target\demo-0.01.jar to cid.lab1/demo/0.01/demo-0.01.jar
channel stopped
Finished: SUCCESS
```



Status

</> Changes



Console Output



Edit Build Information



Delete build '#12'



Git Build Data



Test Result



Redeploy Artifacts



See Fingerprints



Previous Build



#12 (03-Dec-2023, 7:22:55 pm)



No changes.



Started by user [Gopika Jhanwar](#)



Revision: 78516f69be95a11e883f6ef2cb5de355fd22ce63

Repository: <https://github.com/ikigai0822/CICD-sem5-lab-ex1.git>

- refs/remotes/origin/main



[Test Result](#) (no failures)

Module Builds



demo

17 sec