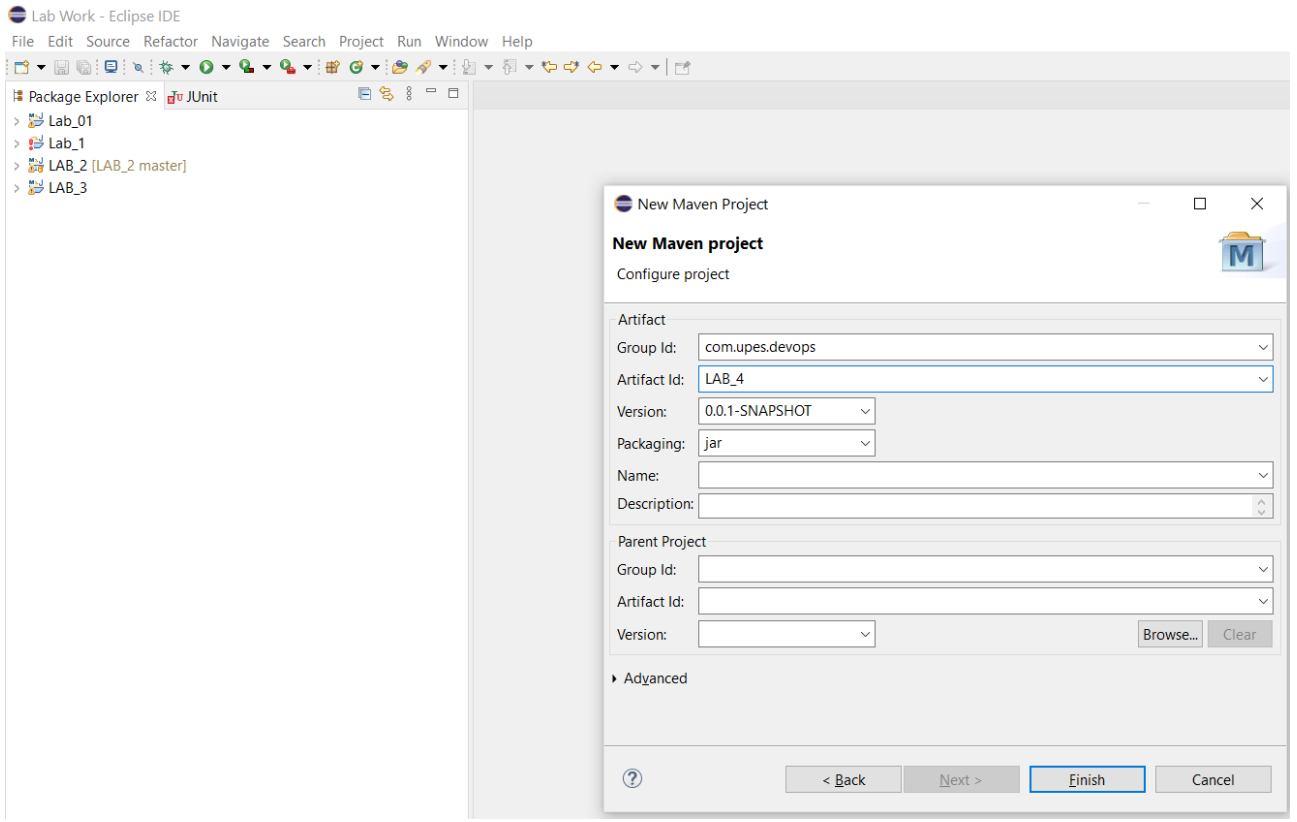
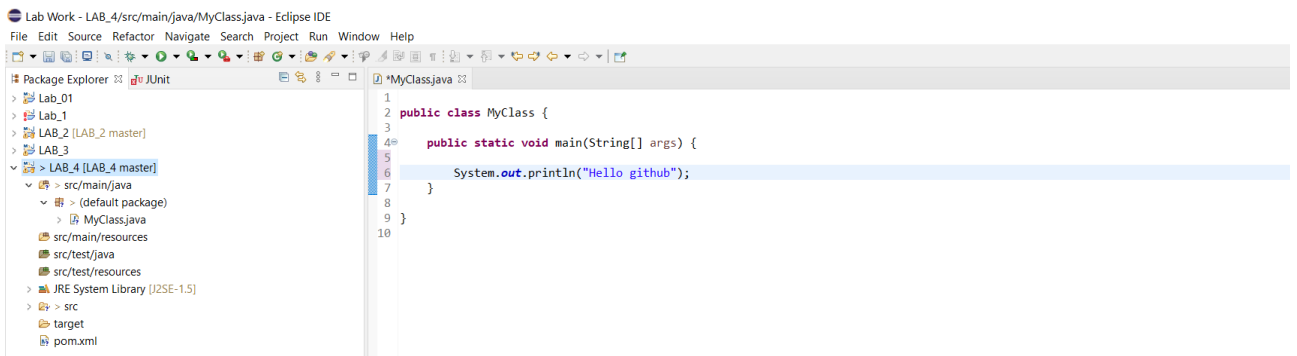


**NAME:** AYUSH BANSAL  
**SAP ID:** 500075782  
**ROLL NO:** R171219009  
**BRANCH:** DEVOPS.

## ? CREATING A SIMPLE MAVEN PROJECT

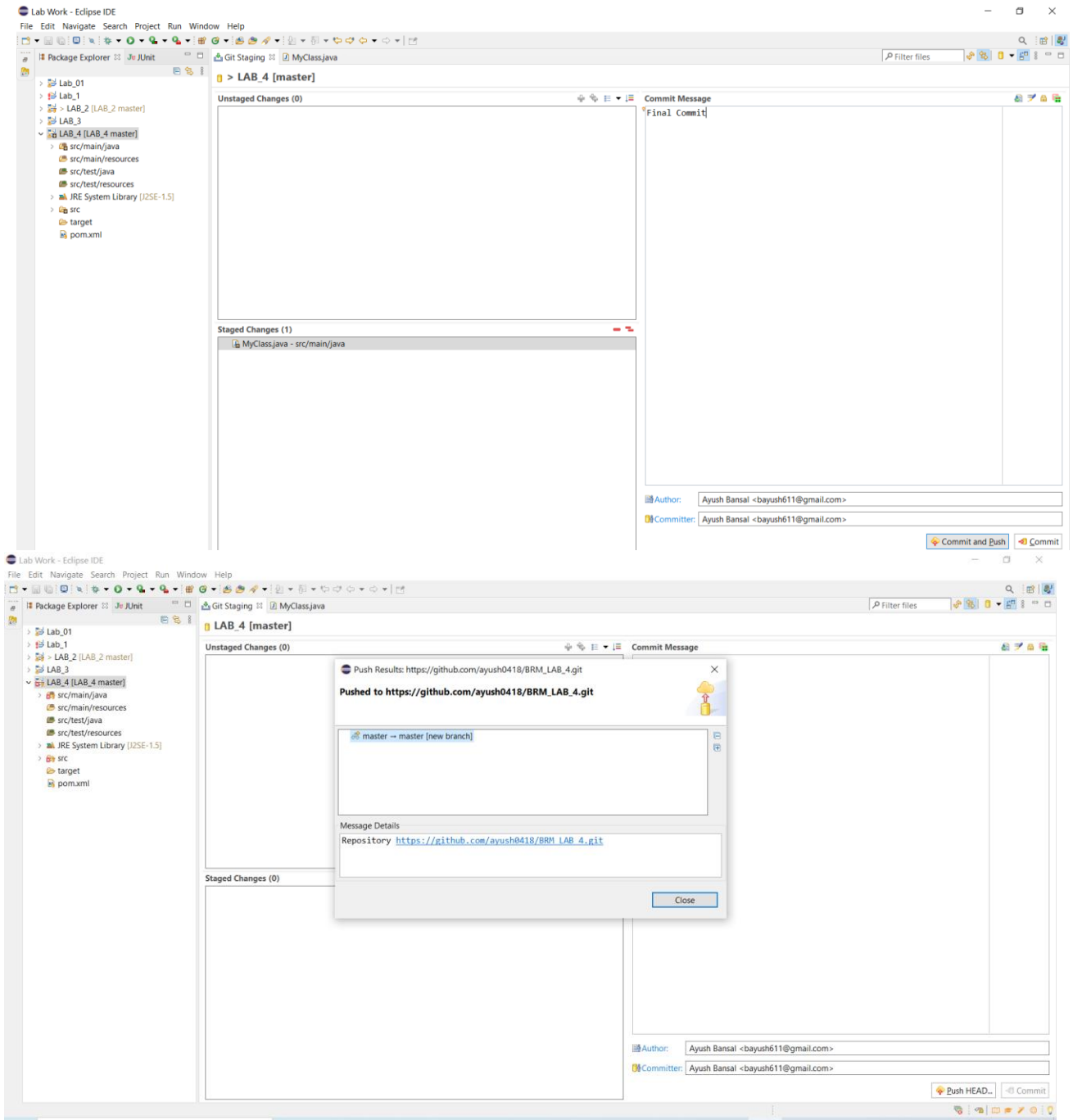


## ? CREATE A CLASS IN MAVEN PROJECT

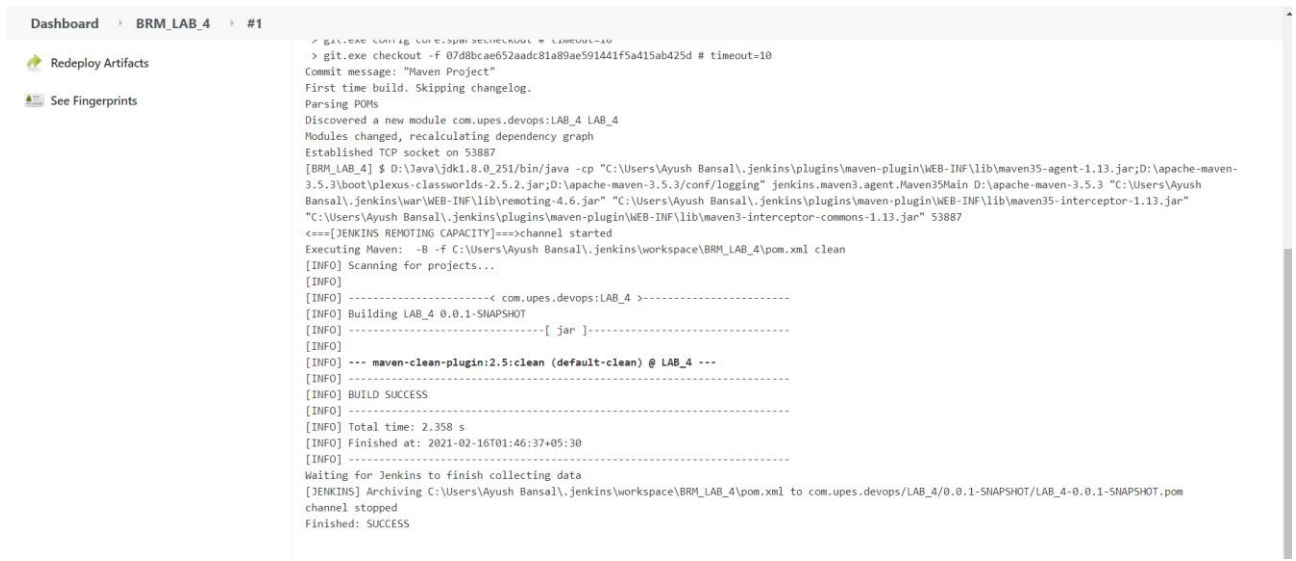


- **COMMIT AND PUSH THIS CODE ON YOUR GITHUB BY CREATING A REPOSITORY**

## **? COMMIT AND PUSH THIS CODE ON GITHUB**



## ? OPEN JENKINS AND RUN CLEAN GOAL MANUALLY



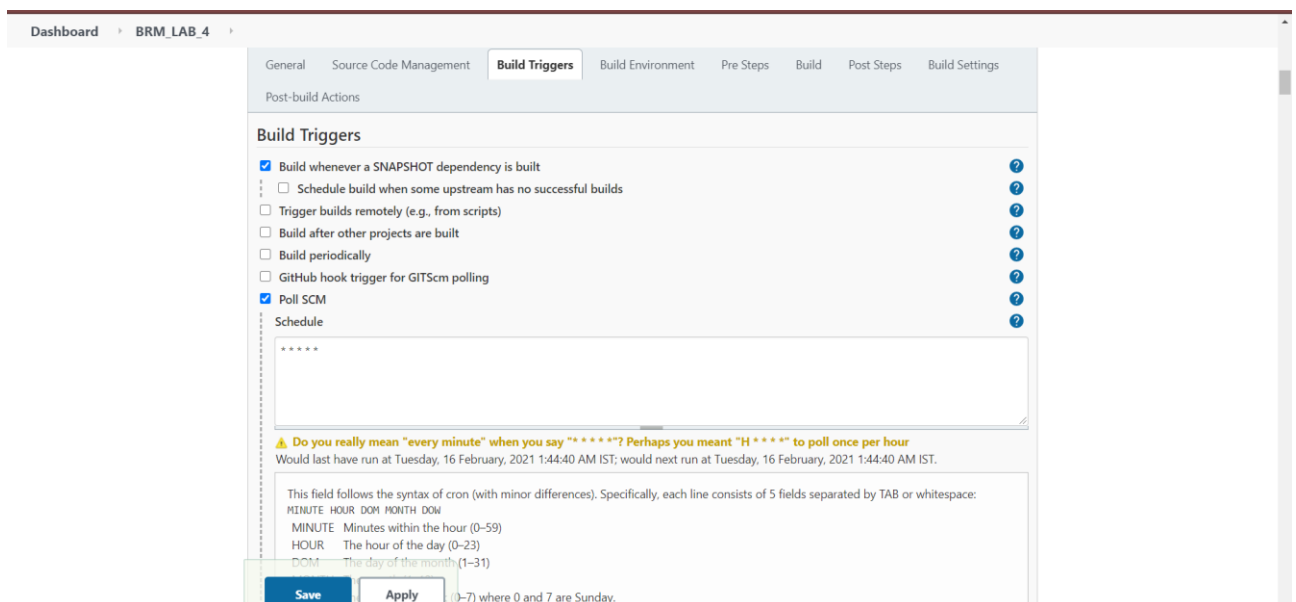
```
Dashboard > BRM_LAB_4 > #1

Redeploy Artifacts
See Fingerprints

$ git.exe checkout -f 07d8bcae652aad81a89ae591441f5a415ab425d # timeout=10
Commit message: "Maven Project"
First time build. Skipping changelog.
Parsing POMs
Discovered a new module com.upes.devops:LAB_4 LAB_4
Modules changed, recalculating dependency graph
Established TCP socket on 53887
[BRM_LAB_4] $ D:\Java\jdk1.8.0_251\bin\java -cp "C:\Users\Ayush Bansal\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven35-agent-1.13.jar;D:\apache-maven-3.5.3\boot\plexus-classworlds-2.5.2.jar;D:\apache-maven-3.5.3\conf\logging-jenkins.maven3.agent.Maven3SHMain D:\apache-maven-3.5.3 "C:\Users\Ayush Bansal\.jenkins\war\WEB-INF\lib\remoting-4.6.jar" "C:\Users\Ayush Bansal\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven35-interceptor-1.13.jar" "C:\Users\Ayush Bansal\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven3-interceptor-commons-1.13.jar" 53887
<==[JENKINS REMOTING CAPACITY]==>channel started
Executing Maven: -B -f C:\Users\Ayush Bansal\.jenkins\workspace\BRM_LAB_4\pom.xml clean
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.upes.devops:LAB_4 >-----
[INFO] Building LAB_4 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ LAB_4 ---
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 2.358 s
[INFO] Finished at: 2021-02-16T01:46:37+05:30
[INFO]
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\Ayush Bansal\.jenkins\workspace\BRM_LAB_4\pom.xml to com.upes.devops:LAB_4\0.0.1-SNAPSHOT\LAB_4-0.0.1-SNAPSHOT.pom
channel stopped
Finished: SUCCESS
```

## ? AUTOMATING THE PROJECT ON JENKINS

1. We can change the configuration of project, to build the job automatically.
2. Click on “configure” and then select the check box ‘POLL SCM’ and give the schedule timing you want to check the GitHub. [ In this the Jenkins will see the SCM every minute].
3. After the configuration is done. Whenever we update the project in GitHub the project in Jenkins will automatically get updated.
4. Whenever the project gets updated in Jenkins the Jenkins will automatically build the project.



Dashboard > BRM\_LAB\_4 >

General Source Code Management **Build Triggers** Build Environment Pre Steps Build Post Steps Build Settings

Post-build Actions

### Build Triggers

- ☒ Build whenever a SNAPSHOT dependency is built
- ☐ Schedule build when some upstream has no successful builds
- ☐ Trigger builds remotely (e.g., from scripts)
- ☐ Build after other projects are built
- ☐ Build periodically
- ☐ GitHub hook trigger for GITScm polling
- ☒ Poll SCM

Schedule

\*\*\*\*\*

⚠ Do you really mean "every minute" when you say "\*\*\*\*\*"? Perhaps you meant "H \*" to poll once per hour  
Would last have run at Tuesday, 16 February, 2021 1:44:40 AM IST; would next run at Tuesday, 16 February, 2021 1:44:40 AM IST.

This field follows the syntax of cron (with minor differences). Specifically, each line consists of 5 fields separated by TAB or whitespace:  
MINUTE HOUR DOM MONTH DOW  
MINUTE Minutes within the hour (0-59)  
HOUR The hour of the day (0-23)  
DOM The day of the month (1-31)  
DOW (0-7) where 0 and 7 are Sunday.

Save Apply

Dashboard
BRM\_LAB\_4
#1

Redeploy Artifacts

See Fingerprints

```

C:\Users\Ayush Bansal> git.exe checkout -f 07d8bcae652aad81a89ae591441f5a415ab425d # timeout=10
Commit message: "Maven Project"
First time build. Skipping changelog.
Parsing POMs
Discovered a new module com.upes.devops:LAB_4_LAB_4
Modules changed, recalculating dependency graph
Established TCP socket on 53887
[BRM_LAB_4] $ D:\Java\jdk1.8.0_251\bin\java -cp "C:\Users\Ayush Bansal\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven3-agent-1.13.jar;D:\apache-maven-3.5.3\boot\plexus-classworlds-2.5.2.jar;D:\apache-maven-3.5.3\conf\logging" jenkins.maven3.agent.Maven3Main D:\apache-maven-3.5.3 "C:\Users\Ayush Bansal\.jenkins\war\WEB-INF\lib\remoting-4.6.jar" "C:\Users\Ayush Bansal\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven3-interceptor-1.13.jar" "C:\Users\Ayush Bansal\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven3-interceptor-commons-1.13.jar" 53887
<==[JENKINS REMOTING CAPACITY]==>channel started
Executing Maven: -B -f C:\Users\Ayush Bansal\.jenkins\workspace\BRM_LAB_4\pom.xml clean
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.upes.devops:LAB_4 >-----
[INFO] Building LAB_4 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ LAB_4 ---
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 2.358 s
[INFO] Finished at: 2021-02-16T01:46:37+05:30
[INFO]
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\Ayush Bansal\.jenkins\workspace\BRM_LAB_4\pom.xml to com.upes.devops/LAB_4/0.0.1-SNAPSHOT/LAB_4-0.0.1-SNAPSHOT.pom
channel stopped
Finished: SUCCESS

```

