

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 Kumar Sharma

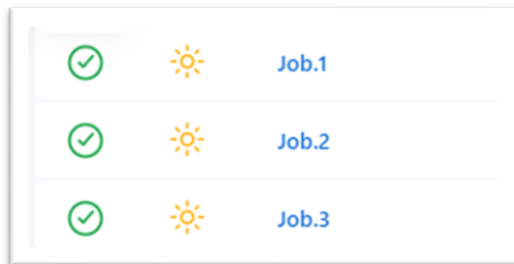
Submitted By:

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B2- Devops (Non-Hons)

EXPERIMENT – 6

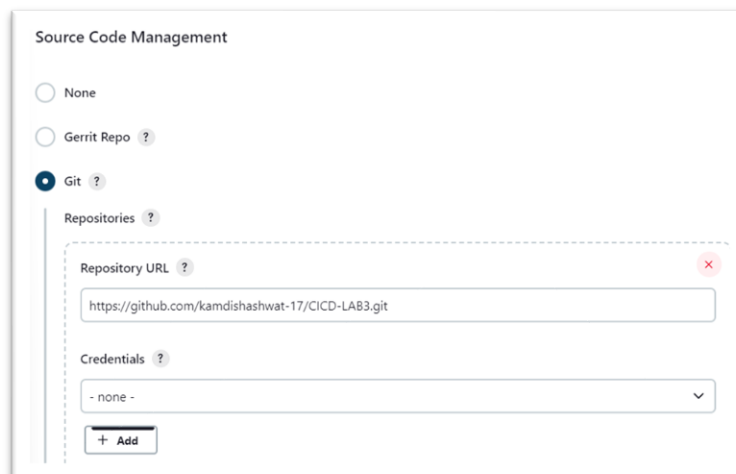
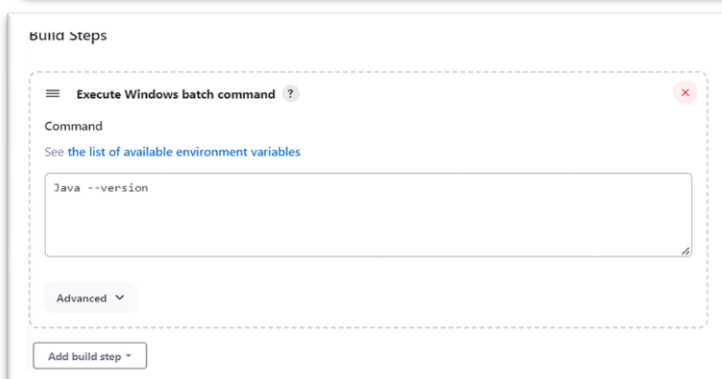
Aim: Job Chaining in Jenkins

1] Creating Jobs, such as Job1, Job2, Job3 to stimulate job chaining and sequential execution.



2] Configure Job Dependencies.

Job.1 Configuration:

A screenshot of the Jenkins Job.1 Configuration page, specifically the 'Source Code Management' section. The 'Git' option is selected. The 'Repository URL' field contains 'https://github.com/kamdishashwat-17/CICD-LAB3.git'. The 'Credentials' dropdown is set to '- none -'. There is an 'Add' button at the bottom.A screenshot of the Jenkins Job.1 Configuration page, specifically the 'Build Steps' section. The 'Execute Windows batch command' step is selected. The 'Command' field contains 'Java --version'. There is an 'Add build step' button at the bottom.

Job.2 Configuration:

Git ?

Repositories ?

Repository URL ?

https://github.com/kamdishashwat-17/CICD-LAB3.git

Credentials ?

- none -

+ Add

Advanced ▾

Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts) ?
- ☒ Build after other projects are built ?
- Projects to watch
- Job.1,
- ☒ Trigger only if build is stable
- ☐ Trigger even if the build is unstable
- ☐ Trigger even if the build fails
- ☐ Always trigger, even if the build is aborted

Execute Windows batch command ?

Command

See [the list of available environment variables](#)

```
java --version
```

Post-build Actions

Build other projects ?

Projects to build

Job.3

- ☒ Trigger only if build is stable
- ☐ Trigger even if the build is unstable
- ☐ Trigger even if the build fails

Job.3 Configuration:

Source Code Management

☐ None

☐ Gerrit Repo ?

☒ Git ?

Repositories ?

Repository URL ?

`https://github.com/kamdishashwat-17/CICD-LAB3.git`

Credentials ?

- none -

+ Add

Build Steps

≡ Execute Windows batch command ?

Command

See [the list of available environment variables](#)

`java --version`

Advanced ▾

Add build step ▾

3] Setting Up Build Triggers and make the Build.

Job.1:

Project Job.1

Downstream Projects

✓ Job.2

Permalinks

- [Last build \(#5\), 25 min ago](#)
- [Last stable build \(#5\), 25 min ago](#)
- [Last successful build \(#5\), 25 min ago](#)
- [Last completed build \(#5\), 25 min ago](#)

Job.2 :

Project Job.2

Upstream Projects

✓ Job.1

Downstream Projects

✓ Job.3

Permalinks

- [Last build \(#2\), 25 min ago](#)
- [Last stable build \(#2\), 25 min ago](#)
- [Last successful build \(#2\), 25 min ago](#)
- [Last completed build \(#2\), 25 min ago](#)

Job.3 :

Project Job.3

Upstream Projects

✓ Job.2

Permalinks

- [Last build \(#1\), 24 min ago](#)
- [Last stable build \(#1\), 24 min ago](#)
- [Last successful build \(#1\), 24 min ago](#)
- [Last completed build \(#1\), 24 min ago](#)

4] Viewing Console Output and Logs.

✓	☀	Job.1
✓	☀	Job.2
✓	☀	Job.3

