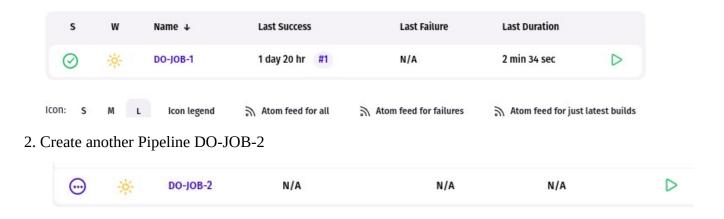
# Experiment 6 Job Chaining in Jenkins

**Objective:** To Understand and Practice job chaining in Jenkins.

# Steps:

1. Create a Maven Project DO-JOB-1



-> In the Build triggers section Check "Build after other Projects are Build" and Enter DO-JOB-1.



-> Previous Job is now showing as Upstream Project in the new Job

# **Upstream Projects**



3. Test the chain by building the first pipeline.



- 4. Create two more pipelines DO-JOB-3 DO-JOB-4, creating a longer and branched chain.
  - (a) Add DO-JOB-2 as Upstream in DO-JOB-3

# **Upstream Projects**



# **Downstream Projects**

⊕ DO-JOB	-4
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## **Permalinks**

(b) Add DO-JOB-2 and DO-JOB-3 in DO-JOB-4

## **Upstream Projects**

- Ø DO-JOB-2
   ⊚ DO-JOB-3
- **Permalinks**
- 5. Test the complete pipeline chain by running DO-JOB-1

s	w	Name ↓	Last Success	Last Failure	Last Duration	
0		DO-JOB-1	1 min 41 sec #3	N/A	10 sec	$\triangleright$
<b>②</b>	-\ó-	DO-JOB-2	1 min 23 sec #2	N/A	10 sec	$\triangleright$
$\odot$	-\o\-	DO-JOB-3	58 sec #1	N/A	12 sec	$\triangleright$
0	-\\\-	DO-JOB-4	38 sec #2	N/A	9.8 sec	$\triangleright$

- 6. Checking Logs
  - (a) DO-JOB-1 triggered DO-JOB-2 once it suceeded.

```
[JENKINS] Archiving /var/lib/jenkins/workspace/DO-JOB-1/target/calc-1.0-SNAPSHOT.jar to com.example/calc/1.0-SNAPSHOT/calc-1.0-SNAPSHOT.jar channel stopped
Triggering a new build of DO-JOB-2
Finished: SUCCESS
```

(b) Similarly, DO-JOB-2 triggers DO-JOB3 and then DO-JOB4 respectively.

```
com.example/calc/1.0-SNAPSHOT/calc-1.0-SNAPSHOT.jar
channel stopped
Triggering a new build of DO-JOB-4
Triggering a new build of DO-JOB-3
Finished: SUCCESS
```

## (c) DO-JOB-3 logs

[JENKINS] Archiving /var/lib/jenkins/workspace/D0-J0B-3/target/calc-1.0-SNAPSH0T.jar to com.example/calc/1.0-SNAPSH0T/calc-1.0-SNAPSH0T.jar

channel stopped

Triggering a new build of DO-JOB-4

Finished: SUCCESS

### (d) DO-JOB-4 logs

1.0-SNAPSHOT.pom

[JENKINS] Archiving /var/lib/jenkins/workspace/D0-J0B-4/target/calc-1.0-SNAPSH0T.jar to com.example/calc/1.0-SNAPSH0T/calc-1.0-SNAPSH0T.jar

channel stopped Finished: SUCCESS