

# Experiment 6 Job Chaining in Jenkins

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

1. Create a Maven Project DO-JOB-1

		Lab6do1	4 min 23 sec	#3	N/A	6.7 sec	
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2. Create another Pipeline DO-JOB-2

		Lab6do2	4 min 9 sec	#3	7 min 35 sec	#1	66 ms	
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-> In the Build triggers section Check “Build after other Projects are Build” and Enter DO-JOB-1.

## Build Triggers

☒ Build after other projects are built ?

Projects to watch

Lab6do1

☒ Trigger only if build is stable

3. 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

## Build Triggers

☒ Build after other projects are built ?

Projects to watch

Lab6do2

☒ Trigger only if build is stable

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

## Build Triggers

☒ Build after other projects are built ?

Projects to watch

Lab6do2, Lab6do3

☒ Trigger only if build is stable

#### 4. Test the complete pipeline chain by running DO-JOB-1

✓	☀️	Lab6do1	4 min 23 sec #3	N/A	6.7 sec	▶
✓	☁️	Lab6do2	4 min 9 sec #3	7 min 35 sec #1	66 ms	▶
✓	☁️	Lab6do3	3 min 59 sec #2	6 min 0 sec #1	75 ms	▶
✓	☀️	Lab6do4	3 min 49 sec #2	N/A	72 ms	▶

#### 5. Checking Logs

(a) DO-JOB-1 triggered DO-JOB-2 once it succeeded.

```
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.116 s
[INFO] Finished at: 2023-11-30T01:31:10+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\work
[JENKINS] Archiving C:\ProgramData\Jenkins\.jenkins\work
SNAPSHOT.jar
channel stopped
Triggering a new build of Lab6do2 #3
Finished: SUCCESS
```

(b) Similarly, DO-JOB-2 triggers DO-JOB3 and then DO-JOB-4 respectively.

## ✓ Console Output

```
Started by upstream project "Lab6do1" build number 3
originally caused by:
  Started by user Rudra
[Pipeline] Start of Pipeline
[Pipeline] End of Pipeline
Triggering a new build of Lab6do3 #2
Triggering a new build of Lab6do4 #1
Finished: SUCCESS
```

(c) DO-JOB-3 logs

## Console Output

```
Started by upstream project "Lab6do2" build number 3
originally caused by:
  Started by upstream project "Lab6do1" build number 3
  originally caused by:
    Started by user Rudra
[Pipeline] Start of Pipeline
[Pipeline] End of Pipeline
Triggering a new build of Lab6do4 #2
Finished: SUCCESS
```

(d) DO-JOB-4 logs

## Console Output

```
Started by upstream project "Lab6do3" build number 2
originally caused by:
  Started by upstream project "Lab6do2" build number 3
  originally caused by:
    Started by upstream project "Lab6do1" build number 3
    originally caused by:
      Started by user Rudra
[Pipeline] Start of Pipeline
[Pipeline] End of Pipeline
Finished: SUCCESS
```