

Experiment 6 Job Chaining in Jenkins

Objective: To Understand and Practice job chaining in Jenkins.

1. Create a Maven Project DO-JOB-1

		job1	N/A	N/A	N/A	
---	---	------	-----	-----	-----	---

2. Create another Pipeline DO-JOB-2

		job2	N/A	N/A	N/A	
---	---	------	-----	-----	-----	---

-> 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

job1

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

job1

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

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

...	☀	job1	N/A	N/A	N/A	▶
...	☀	job2	N/A	N/A	N/A	▶

5. Checking Logs

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

```
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 3.512 s  
[INFO] Finished at: 2023-11-30T17:54:21+05:30  
[INFO] -----  
Waiting for Jenkins to finish collecting data  
[JENKINS] Archiving C:\Users\ASUS\.jenkins\workspace\job1\pom.xml to cilab1/demo/1.0-SNAPSHOT/demo-1.0-SNAPSHOT.pom  
[JENKINS] Archiving C:\Users\ASUS\.jenkins\workspace\job1\target\demo-1.0-SNAPSHOT.jar to cilab1/demo/1.0-SNAPSHOT/demo-1.0-SNAPSHOT.jar  
channel stopped  
Triggering a new build of job2 #1  
Finished: SUCCESS
```

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

Console Output

```
Started by upstream project "job1" build number 1  
originally caused by:  
  Started by user kartikay bisaria  
[Pipeline] Start of Pipeline  
[Pipeline] End of Pipeline  
Triggering a new build of job3 #1  
Triggering a new build of job4 #1  
Finished: SUCCESS
```

(c) DO-JOB-3 logs

Console Output

```
Started by upstream project "job2" build number 1
originally caused by:
  Started by upstream project "job1" build number 1
  originally caused by:
    Started by user kartikay bisaria
[Pipeline] Start of Pipeline
[Pipeline] End of Pipeline
Triggering a new build of job4 #2
Finished: SUCCESS
```

(d) DO-JOB-4 logs

Console Output

```
Started by upstream project "job3" build number 1
originally caused by:
  Started by upstream project "job2" build number 1
  originally caused by:
    Started by upstream project "job1" build number 1
```

