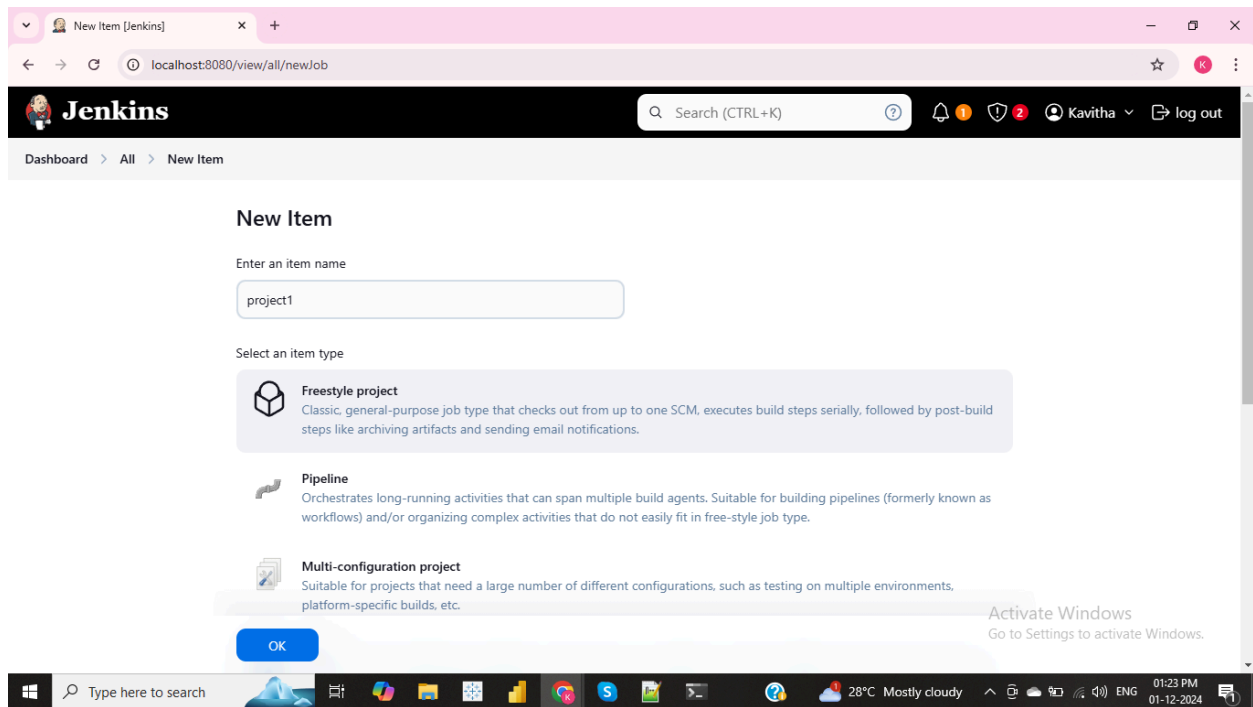
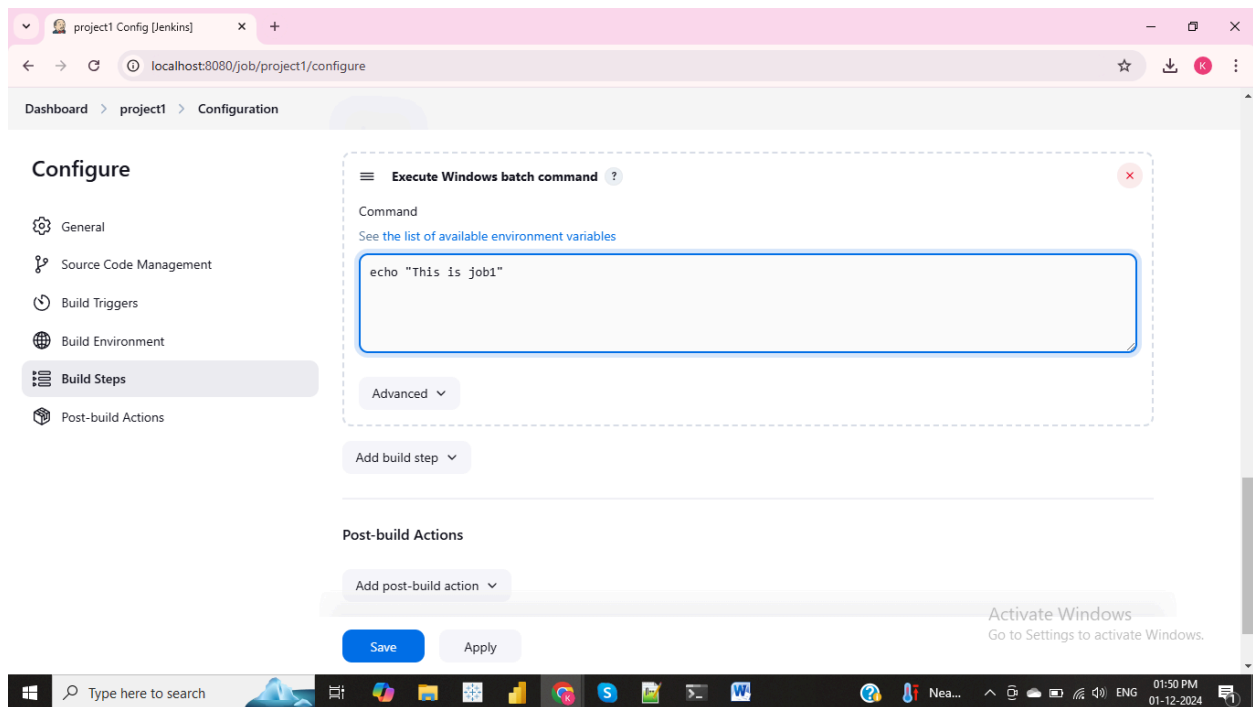


Jenkins Upstream and Downstream Jobs

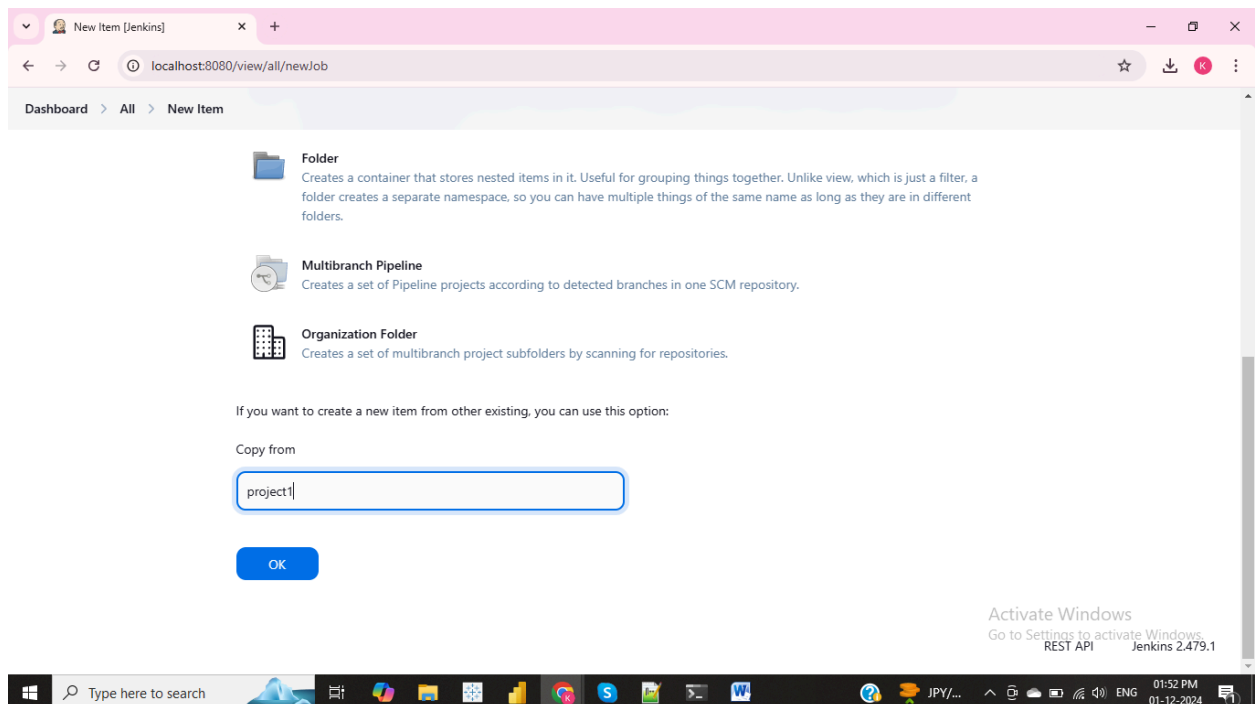
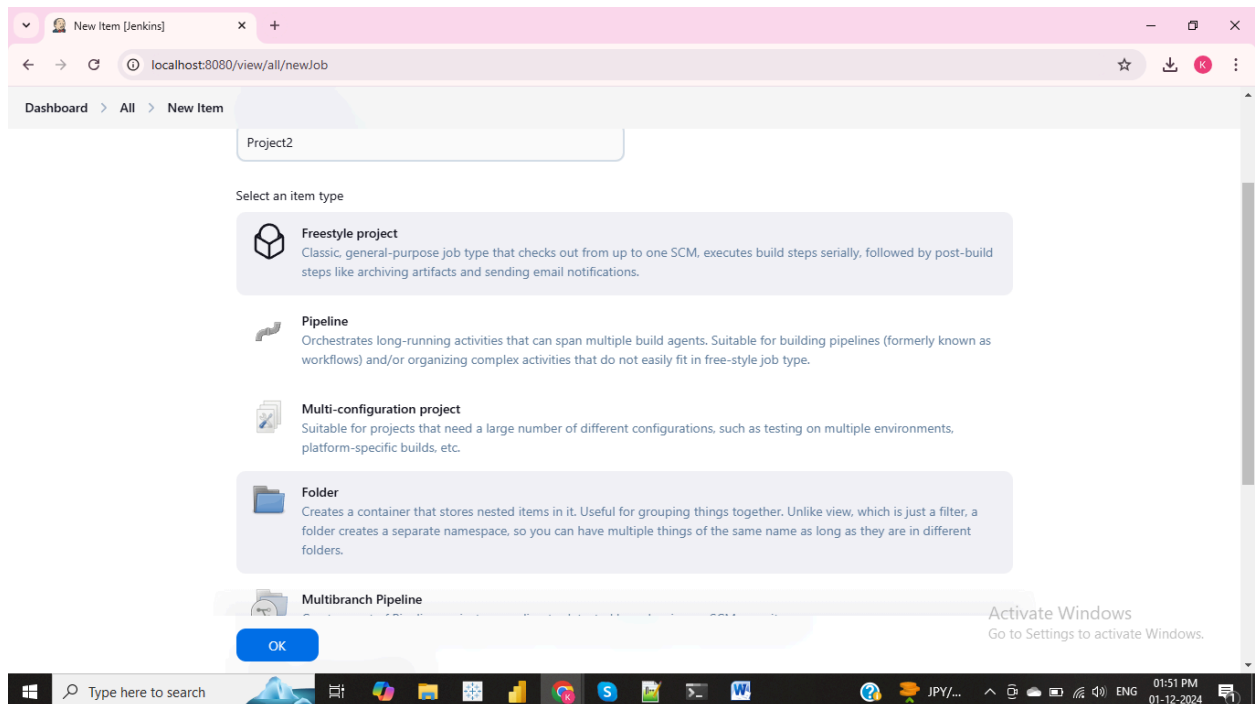
Create Project1 in Freestyle:

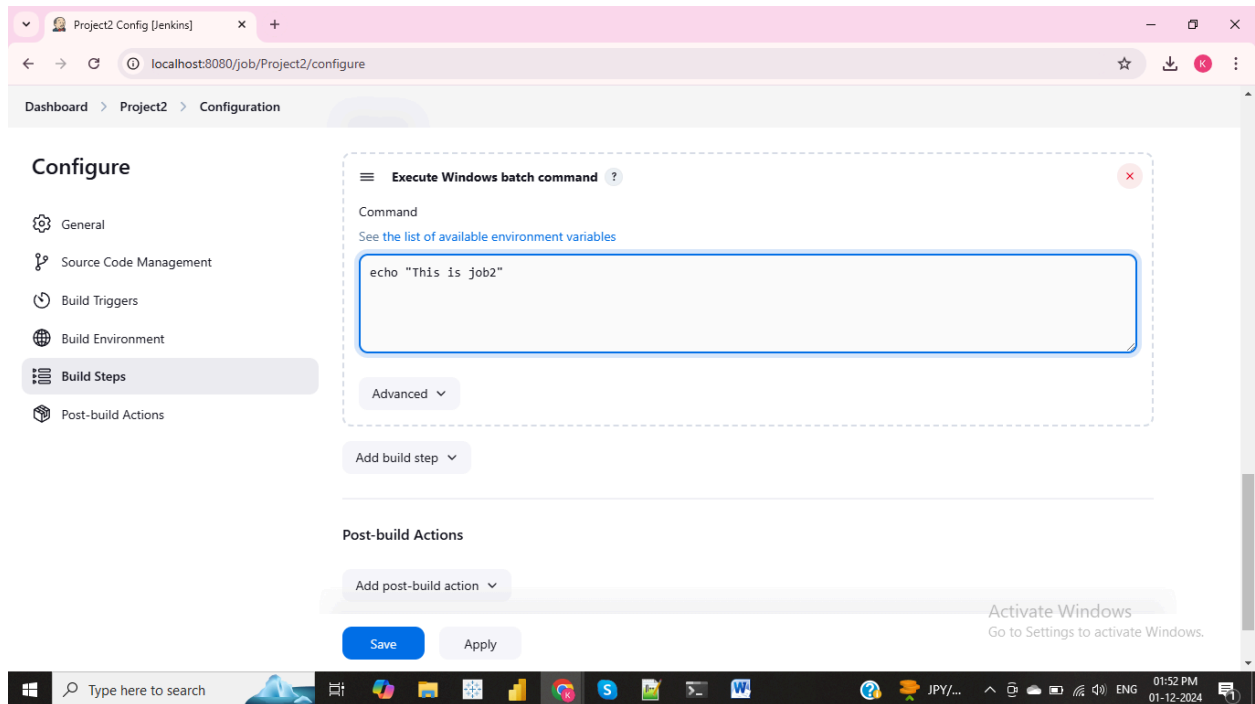


Give Execute command

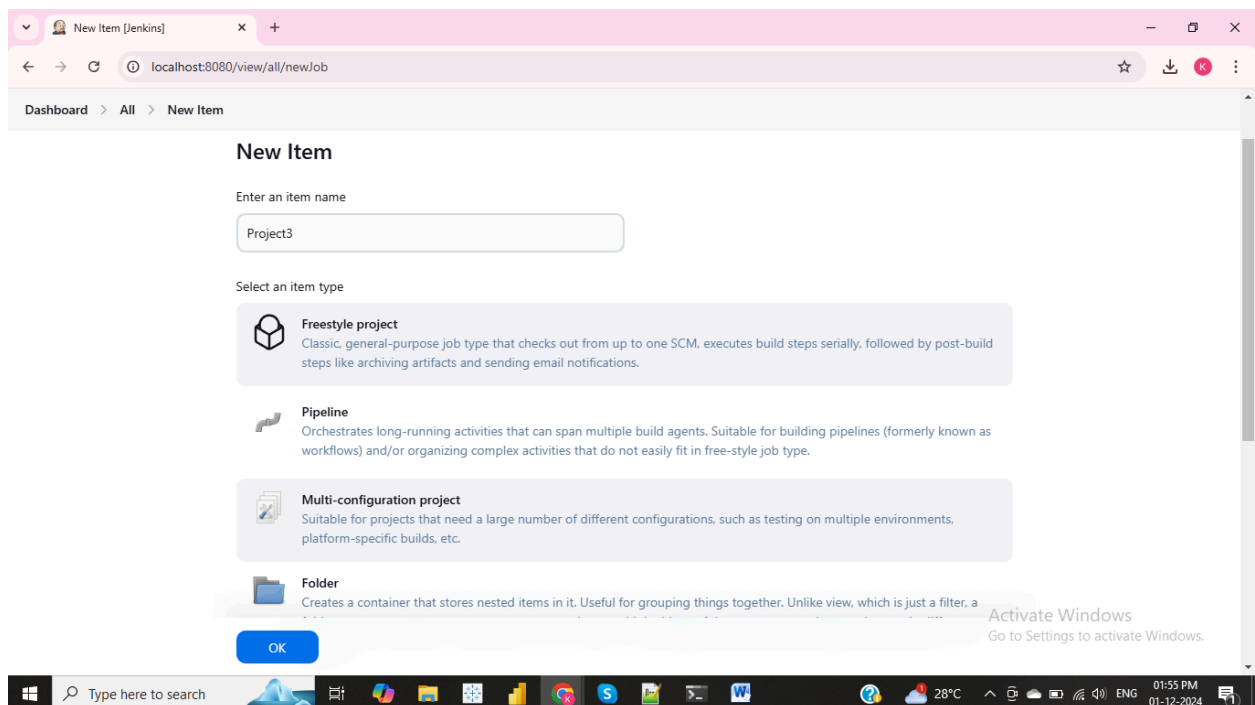


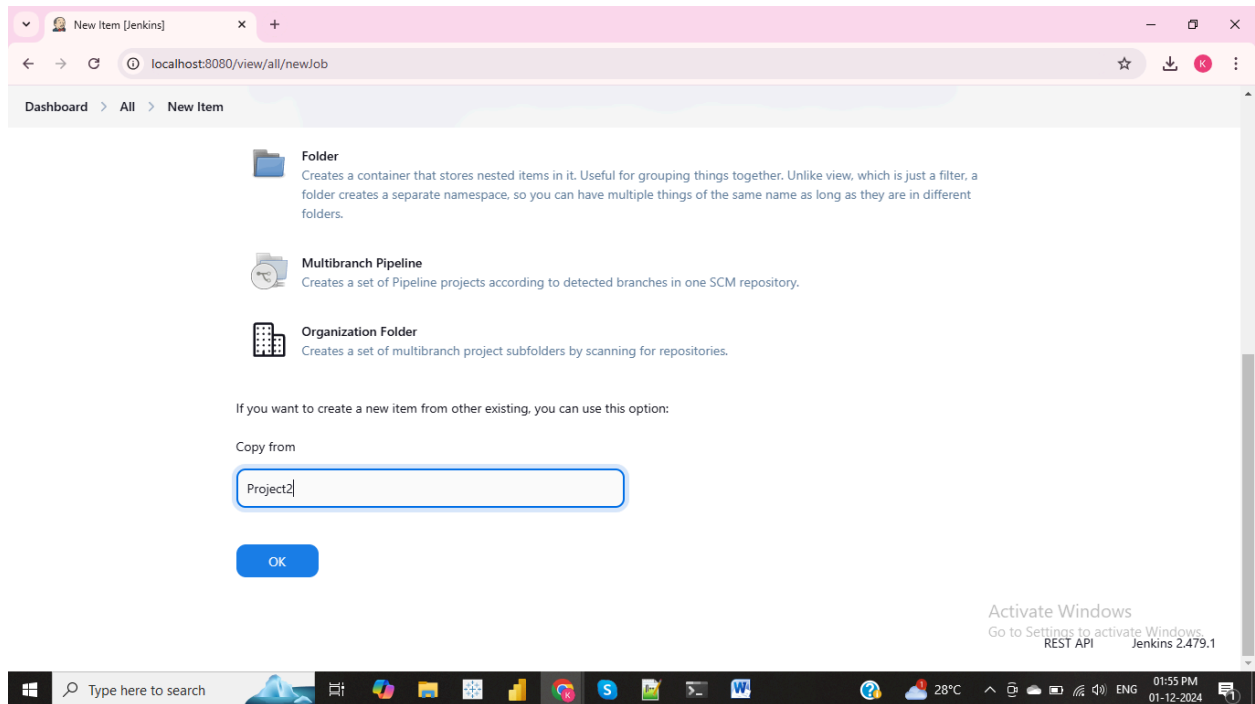
Create Project2 in Freestyle and give copy from option and mention project1



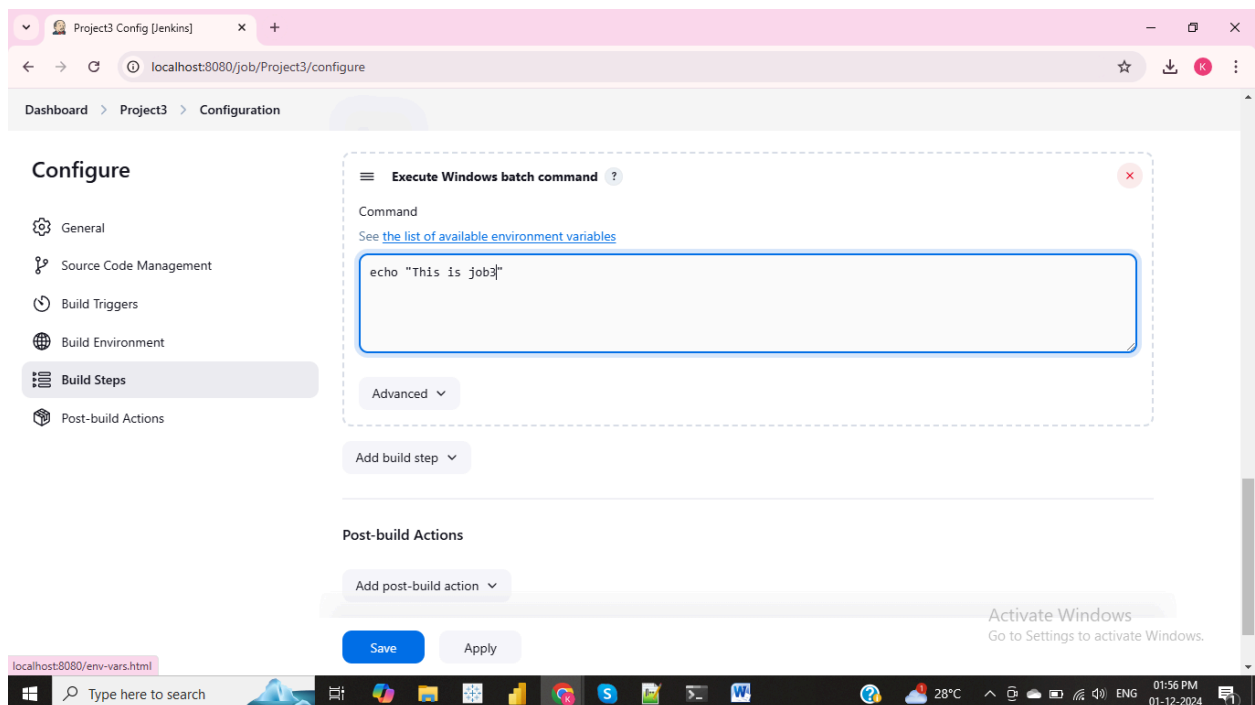


Create Project3 job in Freestyle and give copy from option select project2

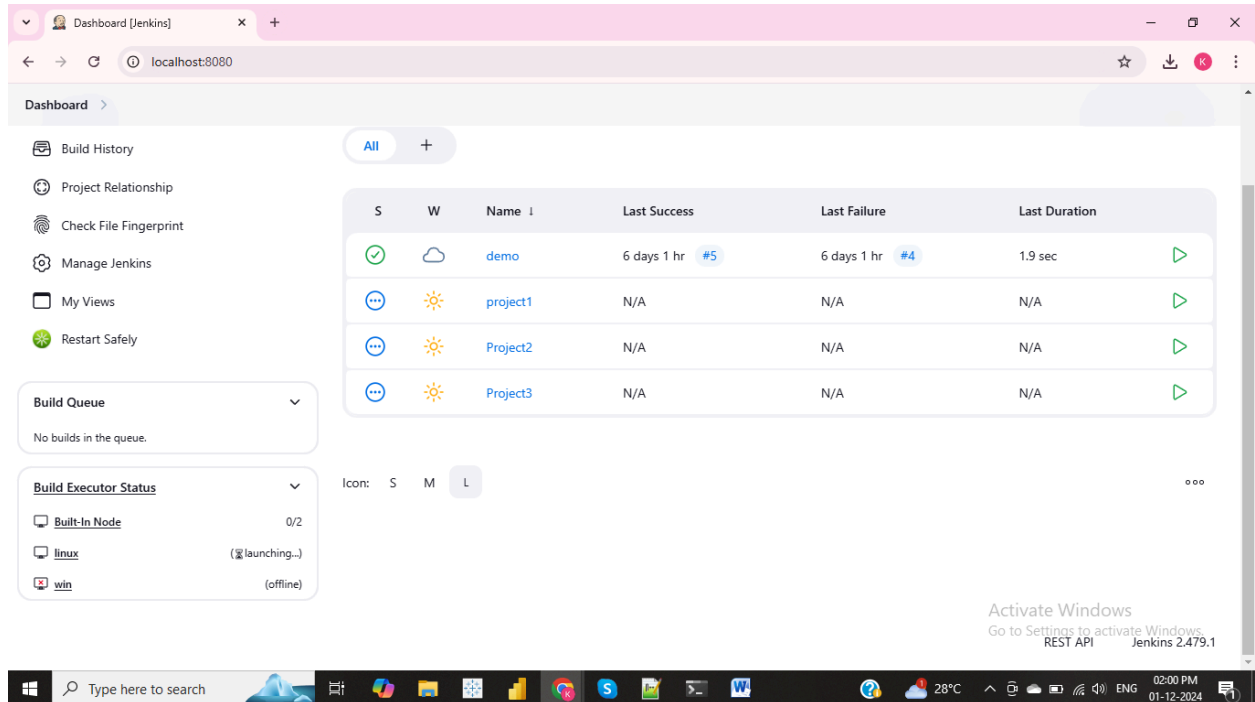




Change the command in Execute windows



Created 3 Freestyle jobs

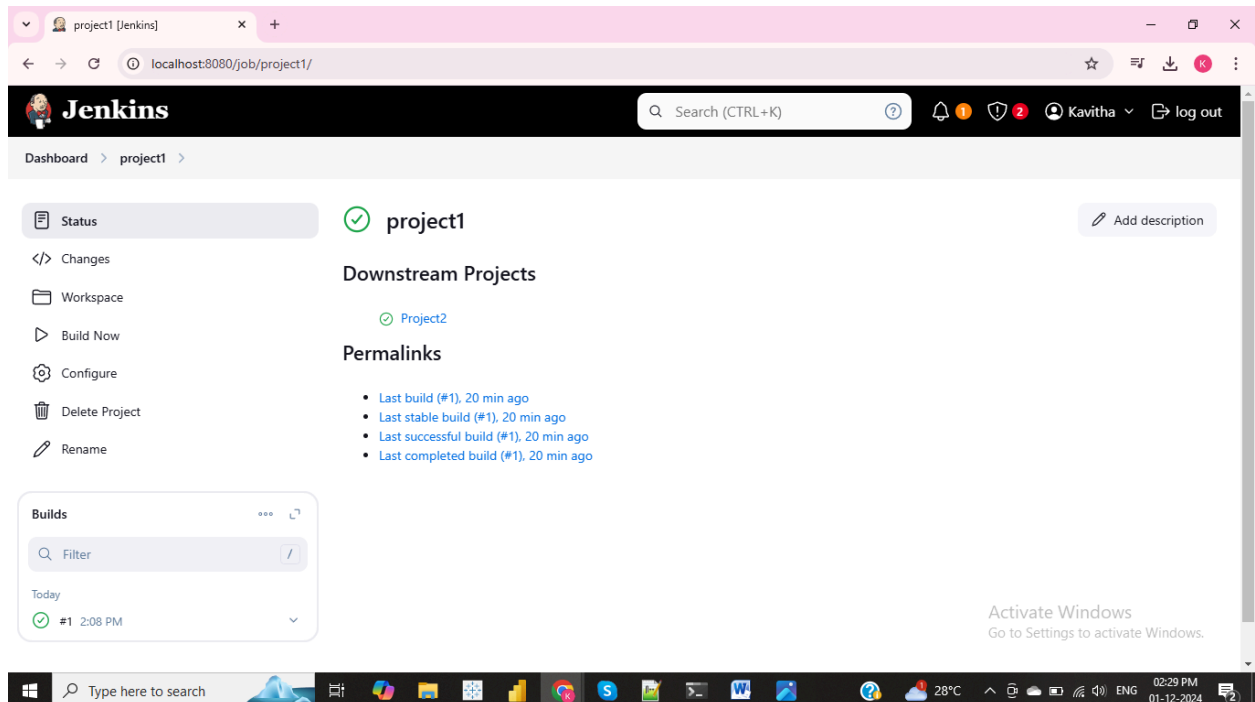


The screenshot shows the Jenkins Dashboard at localhost:8080. The dashboard includes a sidebar with navigation links: Build History, Project Relationship, Check File Fingerprint, Manage Jenkins, My Views, and Restart Safely. The main content area displays a table of jobs:

S	W	Name	Last Success	Last Failure	Last Duration
✓	☁	demo	6 days 1 hr #5	6 days 1 hr #4	1.9 sec
...	☀	project1	N/A	N/A	N/A
...	☀	Project2	N/A	N/A	N/A
...	☀	Project3	N/A	N/A	N/A

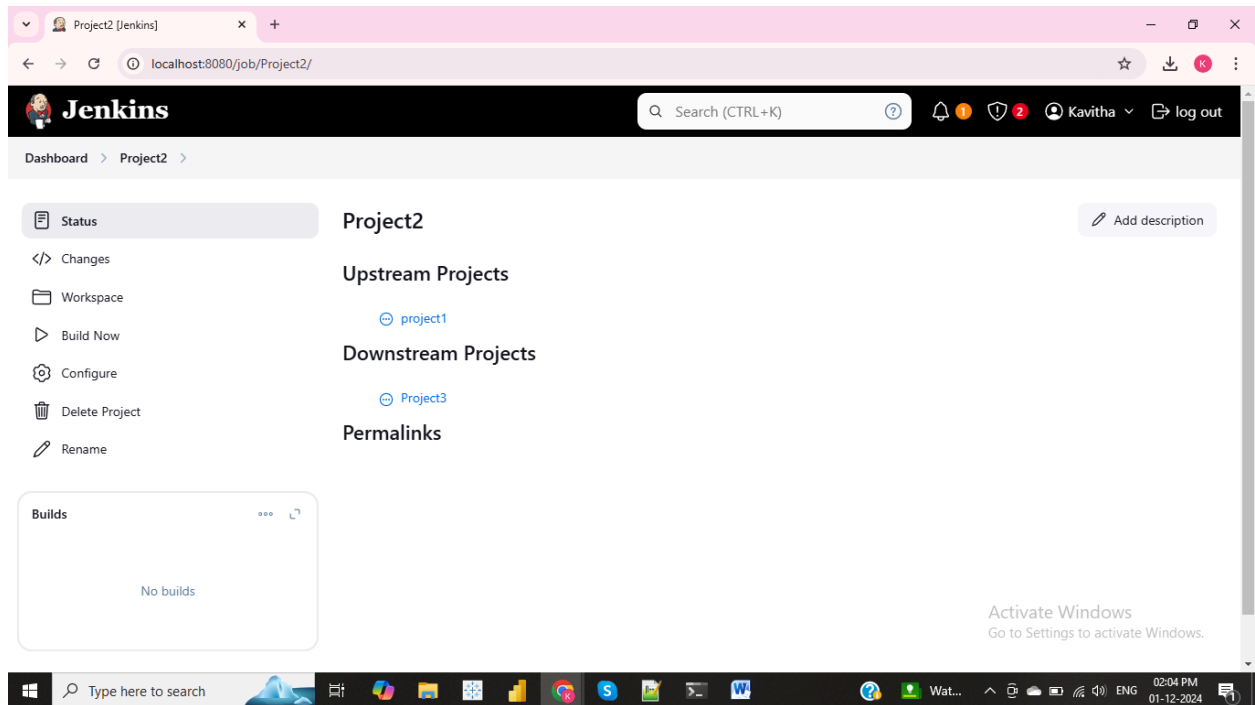
Below the table, there are sections for Build Queue (No builds in the queue) and Build Executor Status (0/2). The Build Executor Status section shows a 'linux' node launching and a 'win' node offline. The Windows taskbar at the bottom shows the time as 02:00 PM on 01-12-2024.

Using Post Build Actions option set the downstream for project1



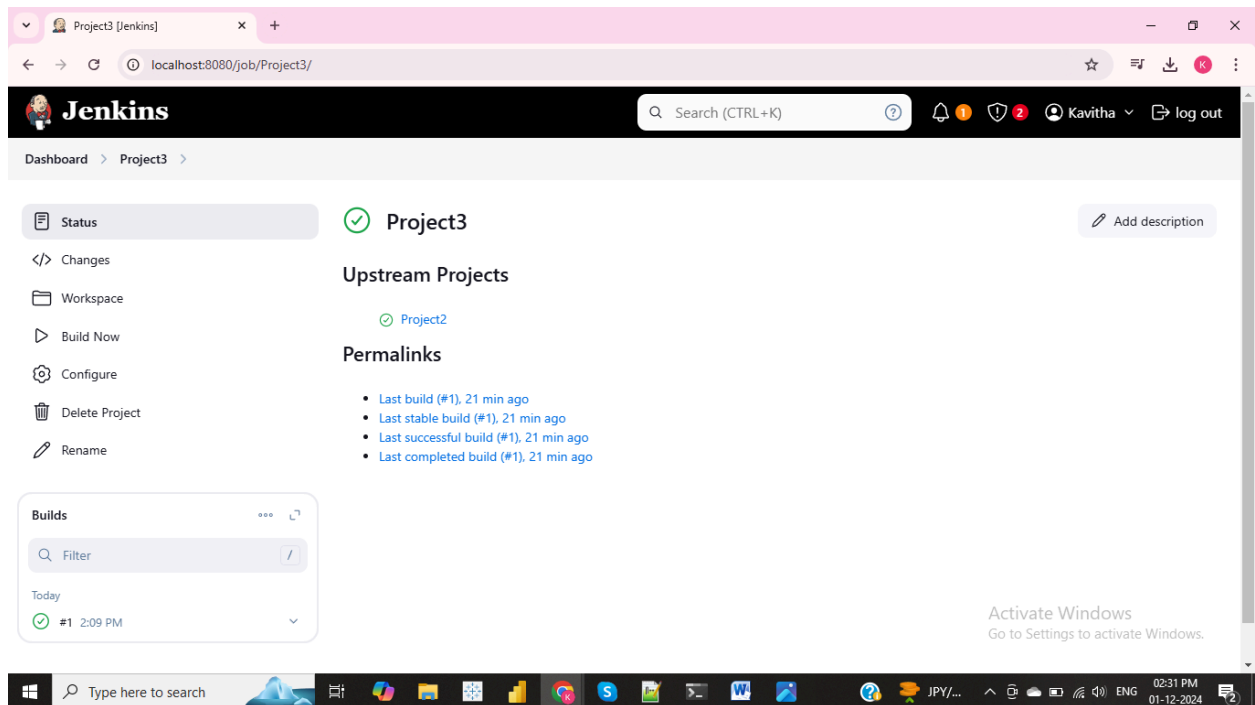
The screenshot shows the Jenkins configuration page for 'project1'. The left sidebar contains links: Status, Changes, Workspace, Build Now, Configure, Delete Project, and Rename. The main content area shows the 'project1' status as successful. Under the 'Downstream Projects' section, 'Project2' is listed. The 'Permalinks' section provides links to the last build, last stable build, last successful build, and last completed build of project1. The 'Builds' section at the bottom shows a single build (#1) completed at 2:08 PM. The Windows taskbar at the bottom shows the time as 02:29 PM on 01-12-2024.

Using Post Build Actions option set the Upstream & Downstream for project2



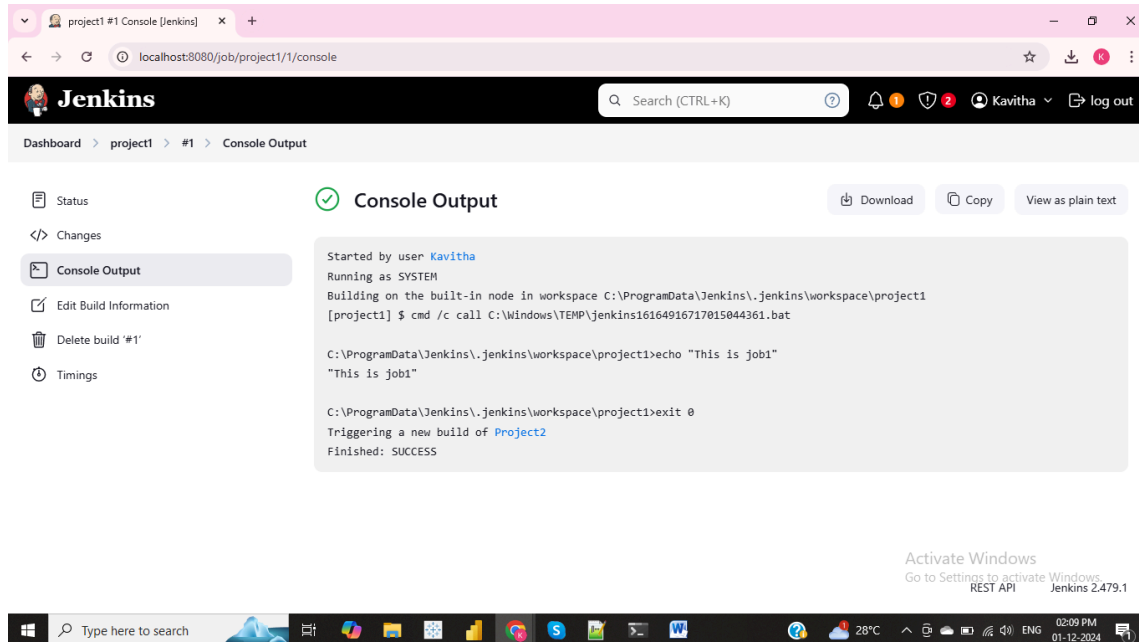
The screenshot shows the Jenkins web interface for 'Project2'. The left sidebar contains a menu with options: Status, Changes, Workspace, Build Now, Configure, Delete Project, and Rename. The main content area for 'Project2' includes sections for 'Upstream Projects' (containing 'project1'), 'Downstream Projects' (containing 'Project3'), and 'Permalinks'. A 'Builds' section at the bottom left shows 'No builds'. The top navigation bar includes a search bar, user profile 'Kavitha', and a 'log out' button. The bottom status bar shows the system time as 02:04 PM on 01-12-2024.

Using Post Build Actions option set the Upstream for project3



The screenshot shows the Jenkins web interface for 'Project3'. The left sidebar is identical to the previous screenshot. The main content area for 'Project3' shows a green checkmark icon next to the project name. The 'Upstream Projects' section contains 'Project2'. The 'Permalinks' section lists four items: 'Last build (#1), 21 min ago', 'Last stable build (#1), 21 min ago', 'Last successful build (#1), 21 min ago', and 'Last completed build (#1), 21 min ago'. The 'Builds' section at the bottom left shows a single build with a green checkmark icon, labeled '#1 2:09 PM'. The top navigation bar and bottom status bar are consistent with the previous screenshot, showing the system time as 02:31 PM on 01-12-2024.

Go to project1 Build the first job and it will automatically build balance 2 projects and Output for project1:



The screenshot shows the Jenkins web interface in a browser window. The address bar indicates the URL is localhost:8080/job/project1/1/console. The Jenkins logo and search bar are at the top. The breadcrumb navigation shows Dashboard > project1 > #1 > Console Output. On the left sidebar, the 'Console Output' tab is selected. The main content area shows the console output for build #1 of project1. The output text is as follows:

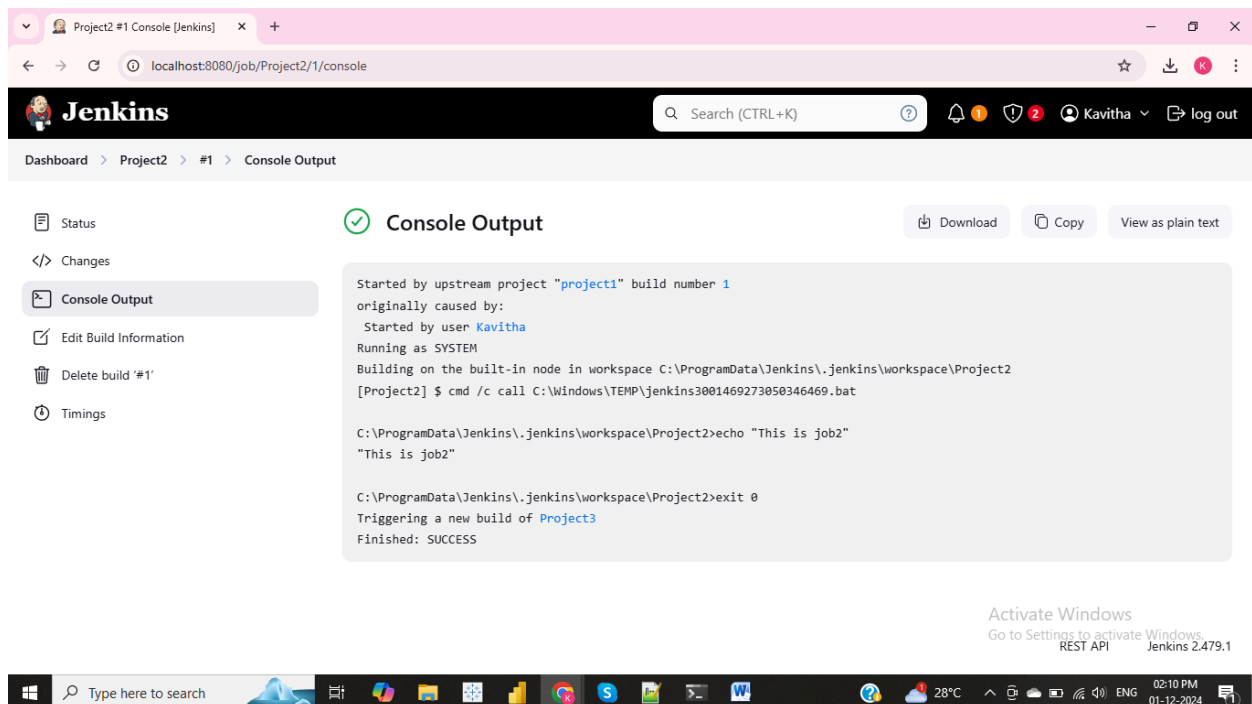
```
Started by user Kavitha
Running as SYSTEM
Building on the built-in node in workspace C:\ProgramData\Jenkins\jenkins\workspace\project1
[project1] $ cmd /c call C:\Windows\TEMP\jenkins16164916717015044361.bat

C:\ProgramData\Jenkins\jenkins\workspace\project1>echo "This is job1"
"This is job1"

C:\ProgramData\Jenkins\jenkins\workspace\project1>exit 0
Triggering a new build of Project2
Finished: SUCCESS
```

At the bottom right of the console output area, there is a watermark that says 'Activate Windows Go to Settings to activate Windows REST API Jenkins 2.479.1'. The Windows taskbar is visible at the bottom of the screen.

Output for Project2:



The screenshot shows the Jenkins web interface in a browser window. The address bar indicates the URL is localhost:8080/job/Project2/1/console. The Jenkins logo and search bar are at the top. The breadcrumb navigation shows Dashboard > Project2 > #1 > Console Output. On the left sidebar, the 'Console Output' tab is selected. The main content area shows the console output for build #1 of Project2. The output text is as follows:

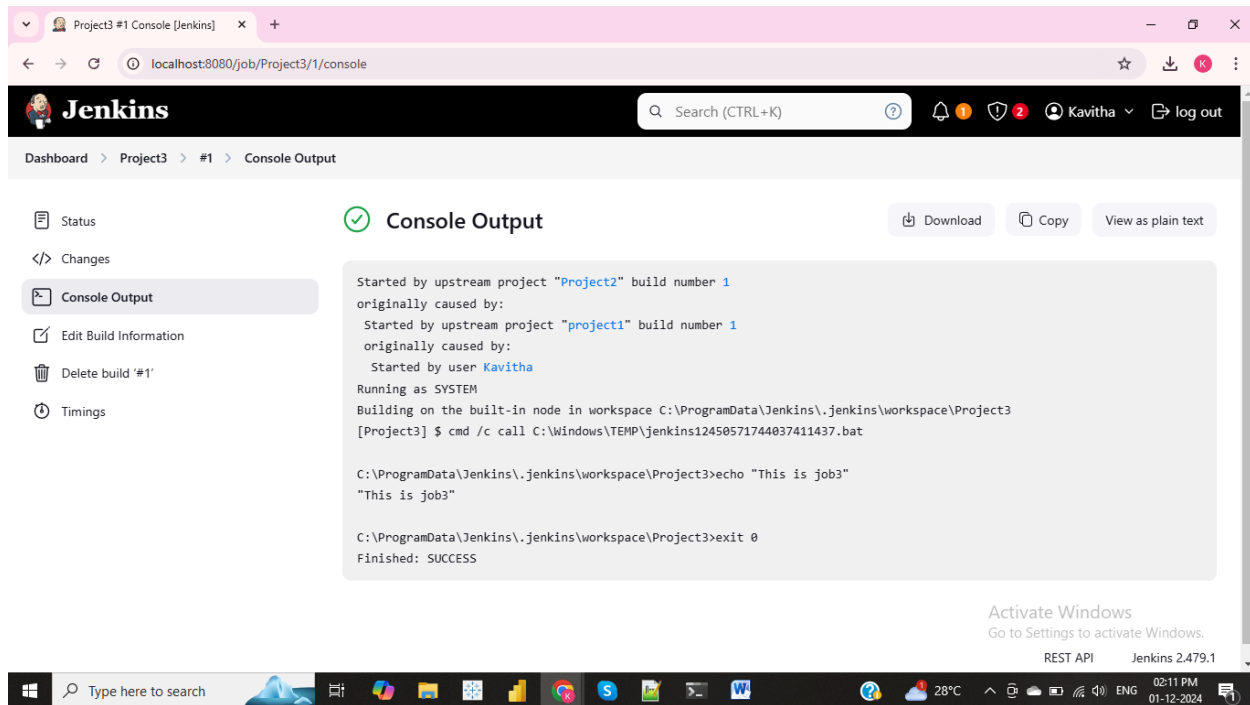
```
Started by upstream project "project1" build number 1
originally caused by:
  Started by user Kavitha
Running as SYSTEM
Building on the built-in node in workspace C:\ProgramData\Jenkins\jenkins\workspace\Project2
[Project2] $ cmd /c call C:\Windows\TEMP\jenkins3001469273050346469.bat

C:\ProgramData\Jenkins\jenkins\workspace\Project2>echo "This is job2"
"This is job2"

C:\ProgramData\Jenkins\jenkins\workspace\Project2>exit 0
Triggering a new build of Project3
Finished: SUCCESS
```

At the bottom right of the console output area, there is a watermark that says 'Activate Windows Go to Settings to activate Windows REST API Jenkins 2.479.1'. The Windows taskbar is visible at the bottom of the screen.

Output for Project3:



The screenshot shows the Jenkins web interface. The top navigation bar includes the Jenkins logo, a search bar, and user information (Kavitha). The breadcrumb trail is Dashboard > Project3 > #1 > Console Output. On the left sidebar, the 'Console Output' option is selected. The main content area displays the console output for build #1 of Project3. The output text is as follows:

```
Started by upstream project "Project2" build number 1
originally caused by:
  Started by upstream project "project1" build number 1
originally caused by:
  Started by user Kavitha
Running as SYSTEM
Building on the built-in node in workspace C:\ProgramData\Jenkins\jenkins\workspace\Project3
[Project3] $ cmd /c call C:\Windows\TEMP\jenkins12450571744037411437.bat

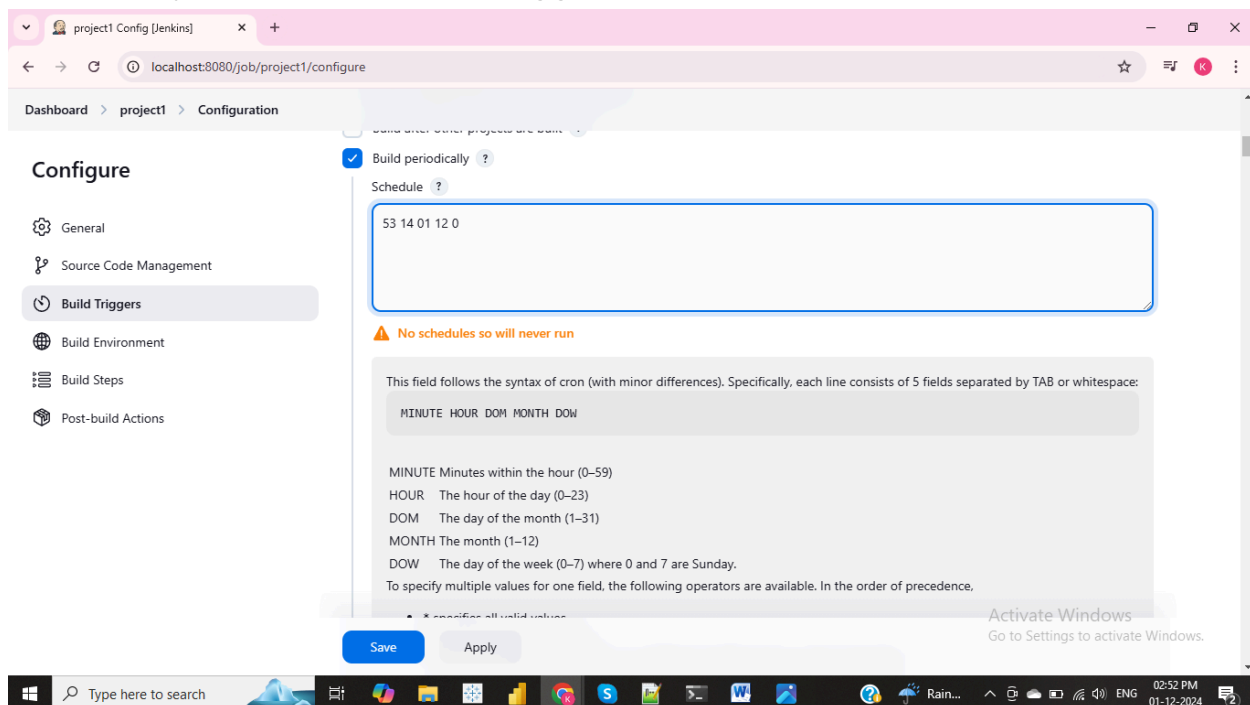
C:\ProgramData\Jenkins\jenkins\workspace\Project3>echo "This is job3"
"This is job3"

C:\ProgramData\Jenkins\jenkins\workspace\Project3>exit 0
Finished: SUCCESS
```

At the bottom right of the console output area, there is a link to 'Activate Windows' and the text 'Go to Settings to activate Windows.' The bottom status bar shows 'REST API' and 'Jenkins 2.479.1'.

Cron Job

Create a Job with Freestyle option Go to configure--Build Triggers-- Build periodically and set a timer to trigger a auto build option




The screenshot shows the Jenkins configuration page for 'project1'. The breadcrumb trail is Dashboard > project1 > Configuration. The left sidebar shows the 'Build Triggers' option selected. The main content area is titled 'Configure' and shows the 'Build periodically' checkbox checked. The 'Schedule' field contains the cron expression '53 14 01 12 0'. Below the schedule field, there is a warning message: 'No schedules so will never run'. A tooltip explains the cron syntax: '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'. The tooltip also provides definitions for each field: MINUTE (Minutes within the hour (0-59)), HOUR (The hour of the day (0-23)), DOM (The day of the month (1-31)), MONTH (The month (1-12)), and DOW (The day of the week (0-7) where 0 and 7 are Sunday). At the bottom, there are 'Save' and 'Apply' buttons. The bottom status bar shows 'REST API' and 'Jenkins 2.479.1'.



Output for Cron Job

project1 #2 Console [Jenkins]

localhost:8080/job/project1/2/console

 **Jenkins**

Search (CTRL+K)

  2

Kavitha

log out

Dashboard > project1 > #2 > Console Output

Status

</> Changes

Console Output

Edit Build Information

Delete build '#2'

Timings

Previous Build

✓ Console Output

Download Copy View as plain text


```
Started by timer
Running as SYSTEM
Building on the built-in node in workspace C:\ProgramData\Jenkins\.jenkins\workspace\project1
[project1] $ cmd /c call C:\Windows\TEMP\jenkins15732560547750555689.bat




C:\ProgramData\Jenkins\.jenkins\workspace\project1>echo "Cron job"
"Cron job"

C:\ProgramData\Jenkins\.jenkins\workspace\project1>exit 0
Triggering a new build of Project2
Finished: SUCCESS
```

Activate Windows
Go to Settings to activate Windows.
REST API Jenkins 2.479.1

Type here to search



 Rain...   ENG 02:53 PM 01-12-2024