UNIT III CONTINUOUS INTEGRATION USING JENKINS 6

Install & Configure Jenkins, Jenkins Architecture Overview, Creating a Jenkins Job, Configuring a Jenkins job, Introduction to Plugins, Adding Plugins to Jenkins, Commonly used plugins (Git Plugin, Parameter Plugin, HTML Publisher, Copy Artifact and Extended choice parameters). Configuring Jenkins to work with java, Git and Maven, Creating a Jenkins Build and Jenkins workspace.

CREATING AND CONFIGURING A JENKINS JOB

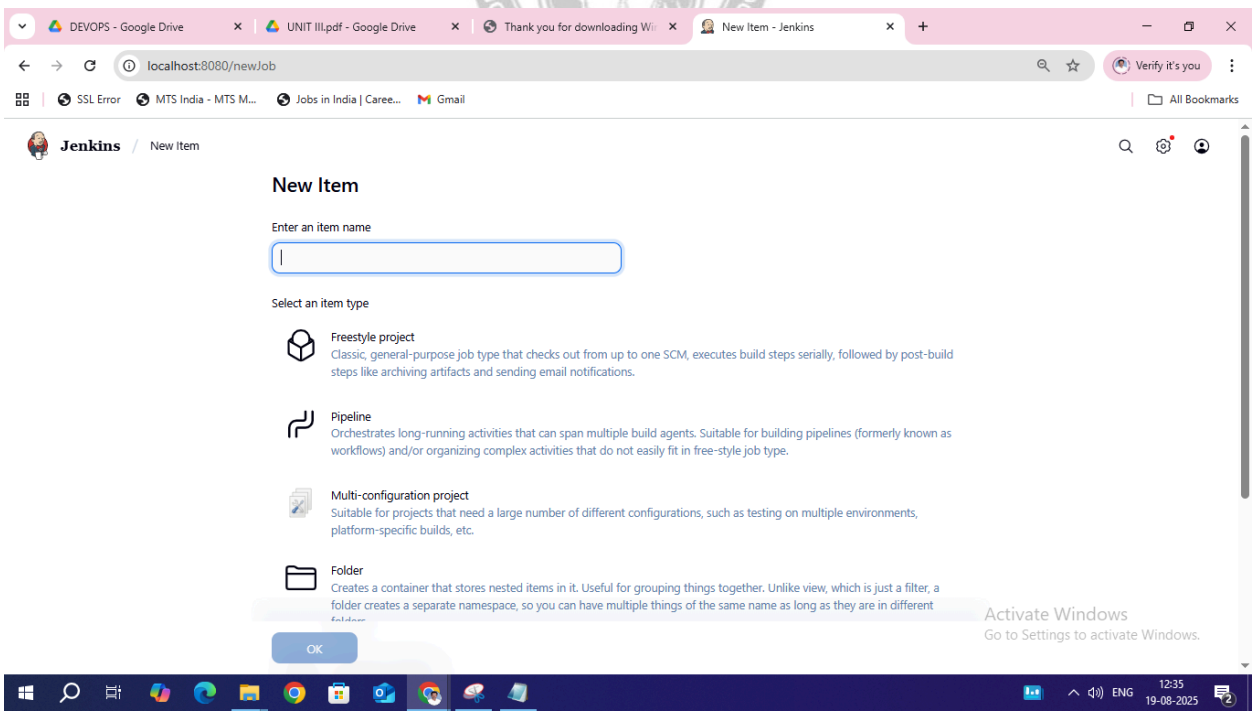
In Jenkins, Jobs (also called Projects) represent tasks or automated processes. These tasks often involve building software, running tests, deploying applications, or performing any other repetitive task that can be automated.

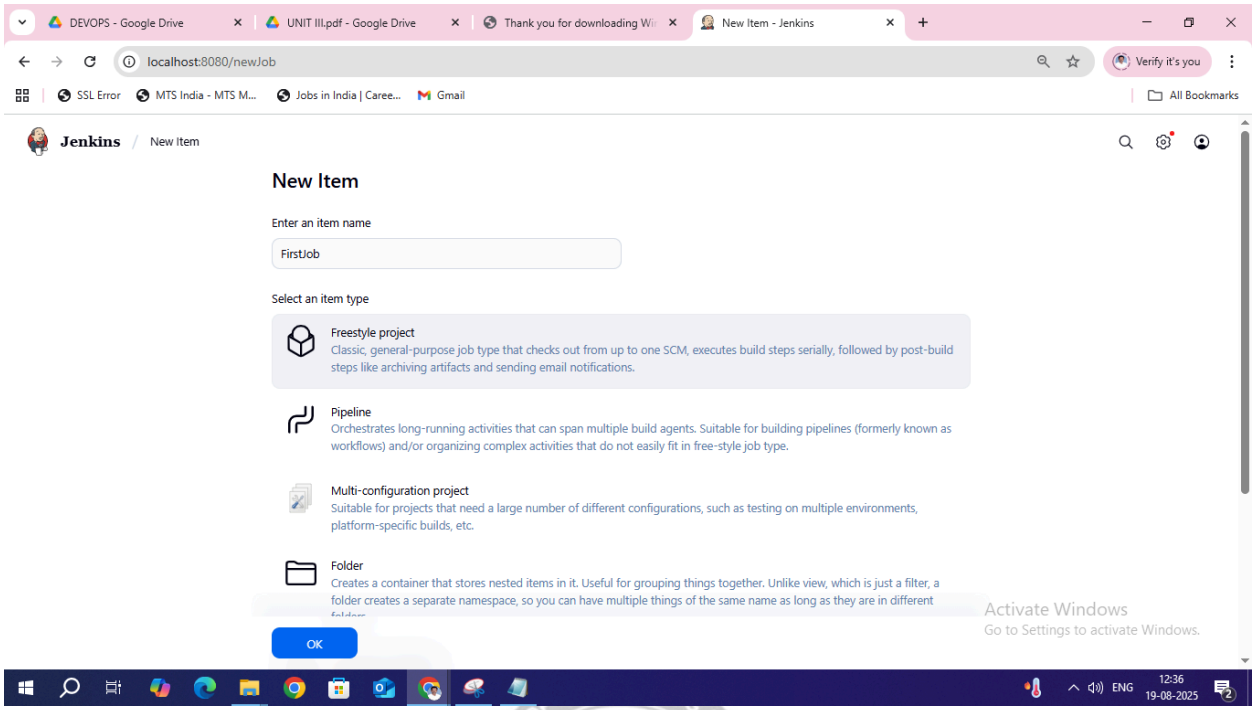
Jobs are at the core of Jenkins' functionality, enabling continuous integration and continuous delivery (CI/CD) pipelines.

Jobs include triggers, build steps, and post-build actions, enabling streamlined automation in development workflows. Jenkins job is created by using the following steps.

Step 1: Open Jenkins dashboard in browser by typing localhost:8080

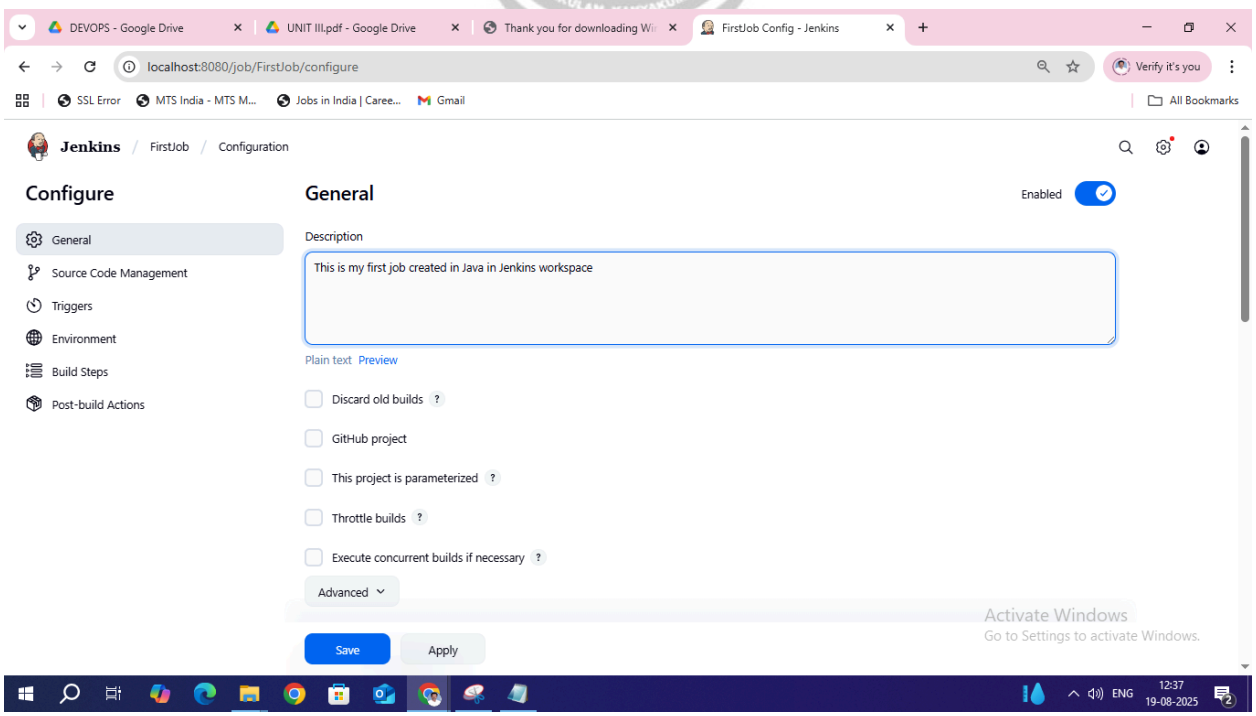
Step 2: Create a free style project by clicking New Item and provide the name and click OK



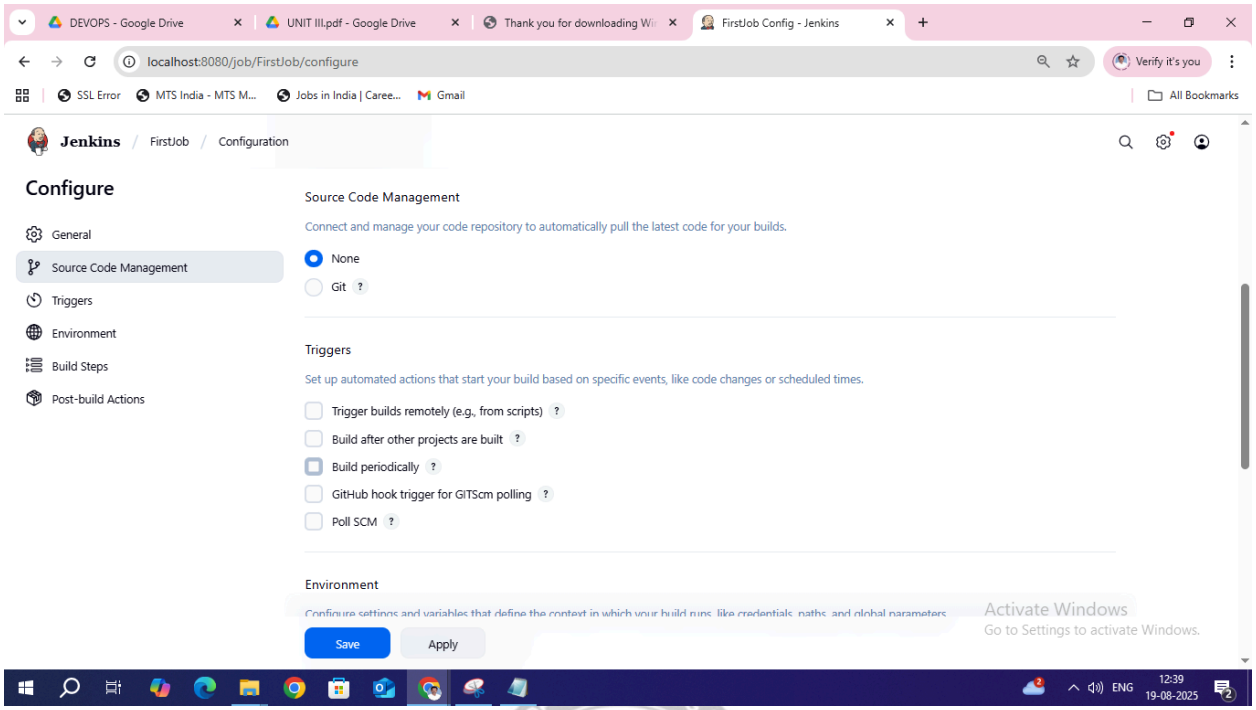


Step 3: Configure the project as follows:

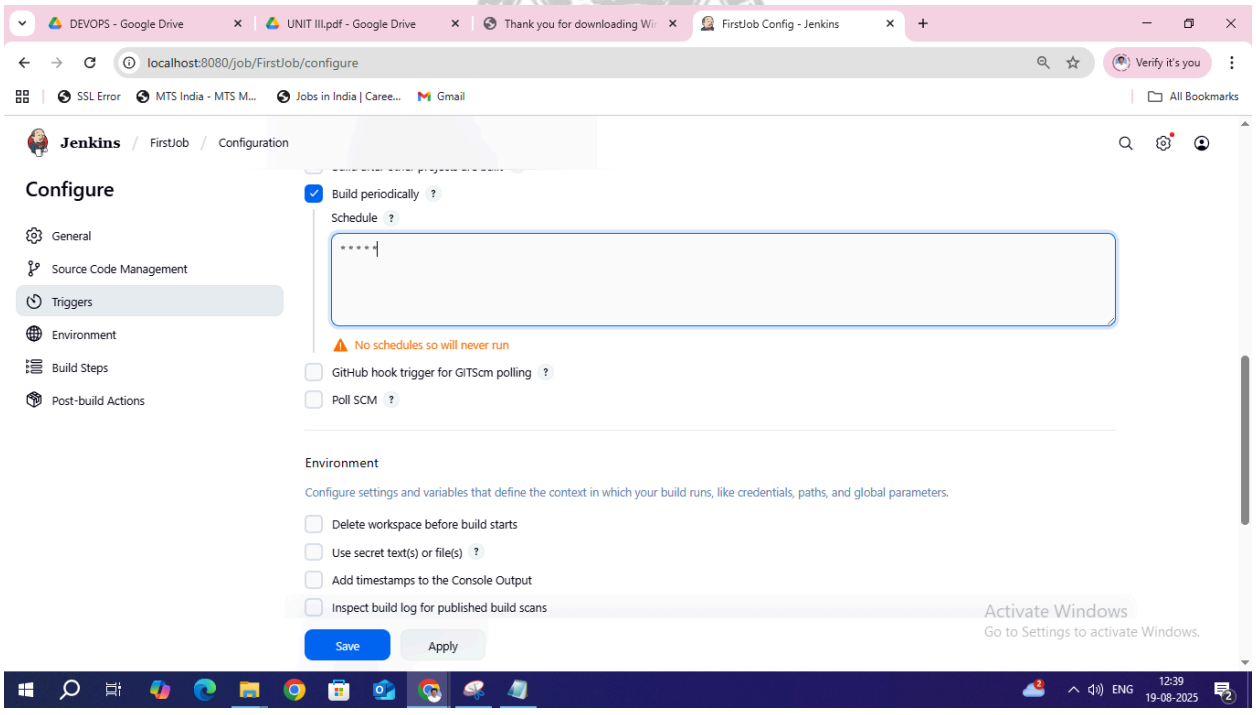
Provide the description



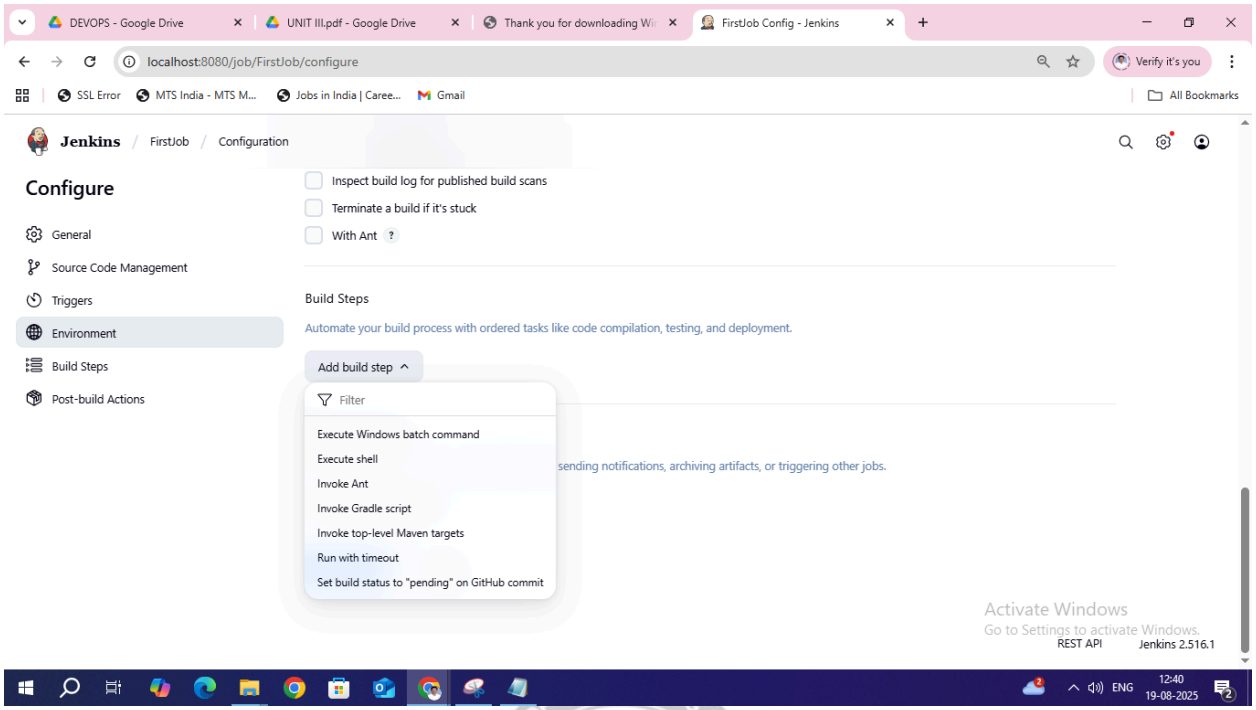
Step 4: In the source code management, specify the location of the source code.

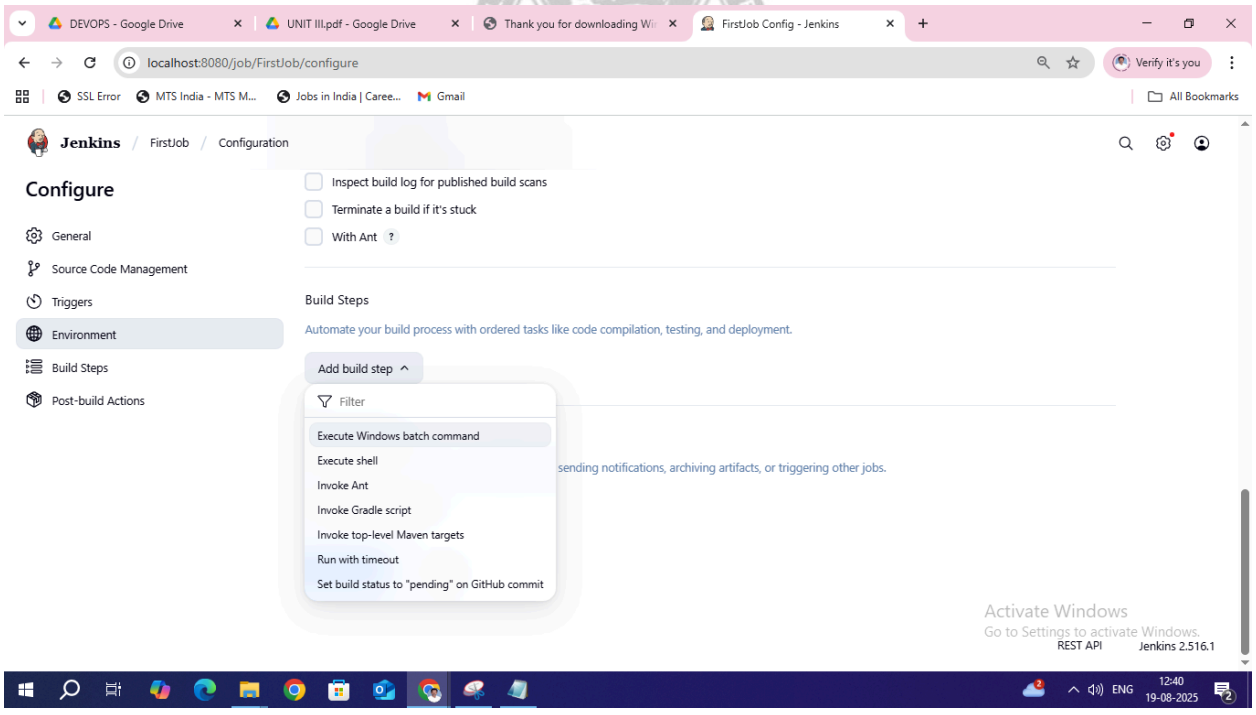


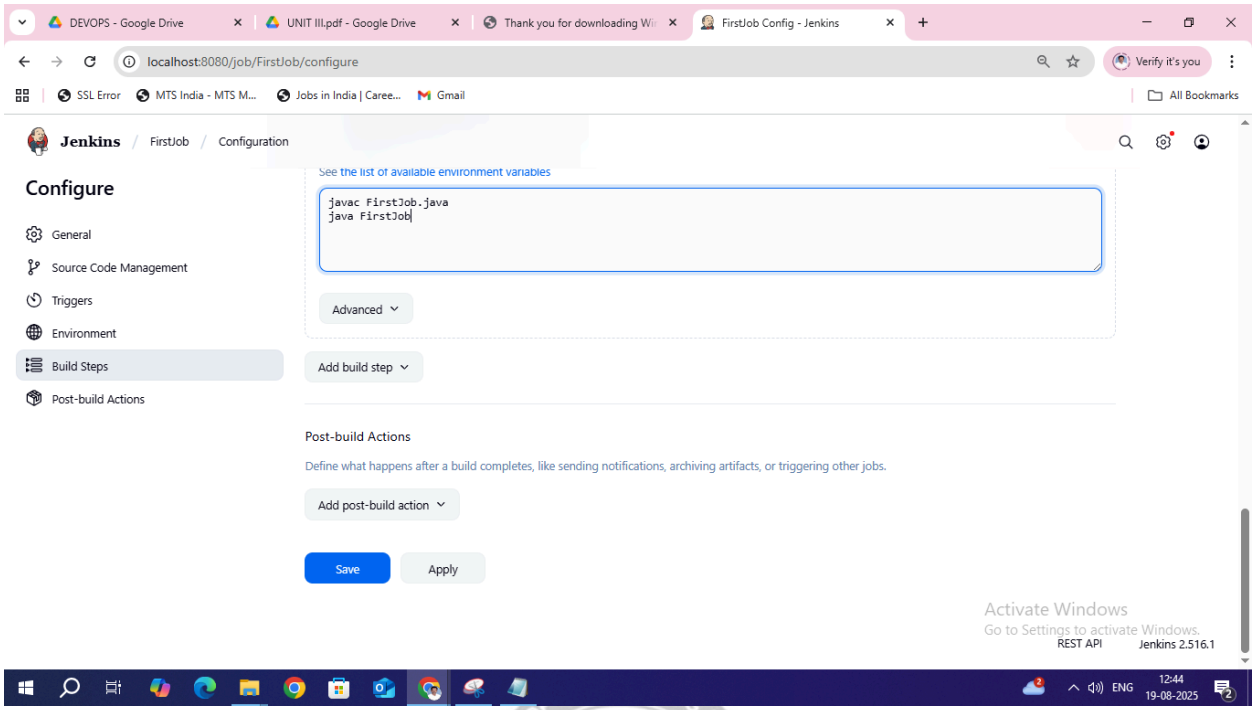
Step 5: In the triggers sections, specify the expression to do periodic build action.



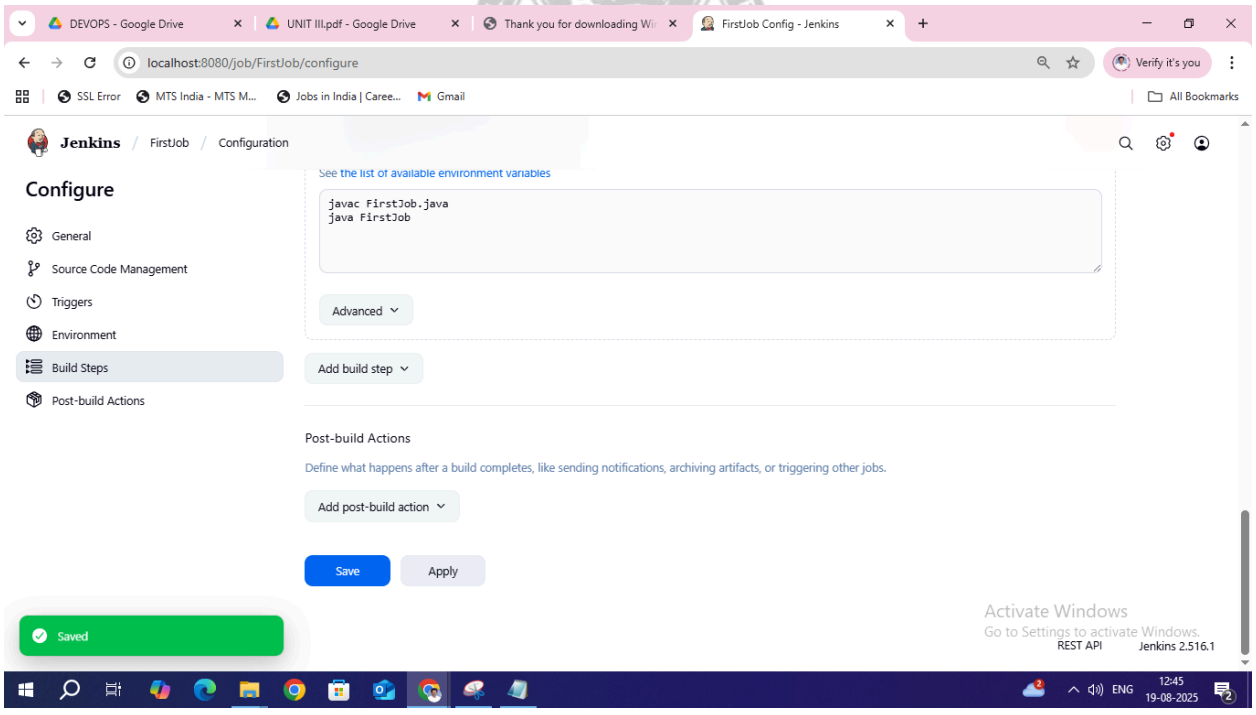
Step 6: In the build sections, specify the steps that you want Jenkins to perform when the job is run. Type the java commands to execute the java program

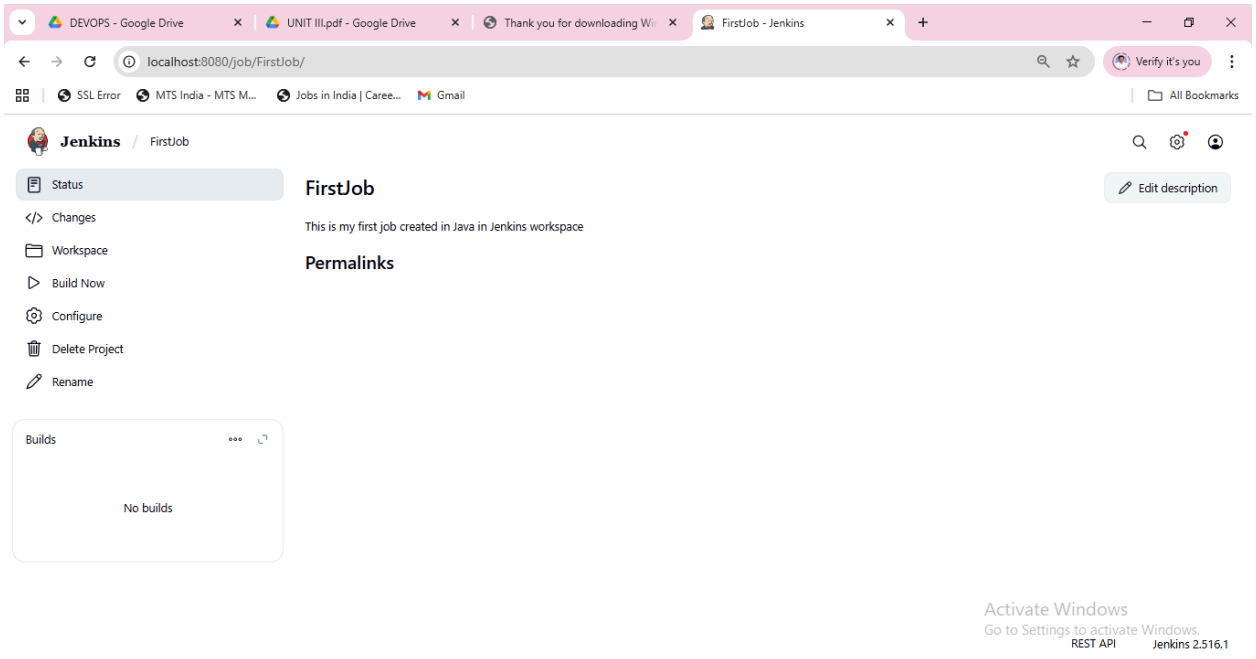

DEVOPS - Google Drive
UNIT III.pdf - Google Drive
Thank you for downloading Wi
FirstJob Config - Jenkins
localhost:8080/job/FirstJob/configure
Verify it's you
SSL Error
MTS India - MTS M...
Jobs in India | Caree...
Gmail
All Bookmarks
Jenkins / FirstJob / Configuration
Configure
General
Source Code Management
Triggers
Environment
Build Steps
Post-build Actions
Inspect build log for published build scans
Terminate a build if it's stuck
With Ant
Build Steps
Automate your build process with ordered tasks like code compilation, testing, and deployment.
Add build step
Filter
Execute Windows batch command
Execute shell
Invoke Ant
Invoke Gradle script
Invoke top-level Maven targets
Run with timeout
Set build status to "pending" on GitHub commit
sending notifications, archiving artifacts, or triggering other jobs.
Activate Windows
Go to Settings to activate Windows.
REST API
Jenkins 2.516.1
ENG
12:40
19-08-2025

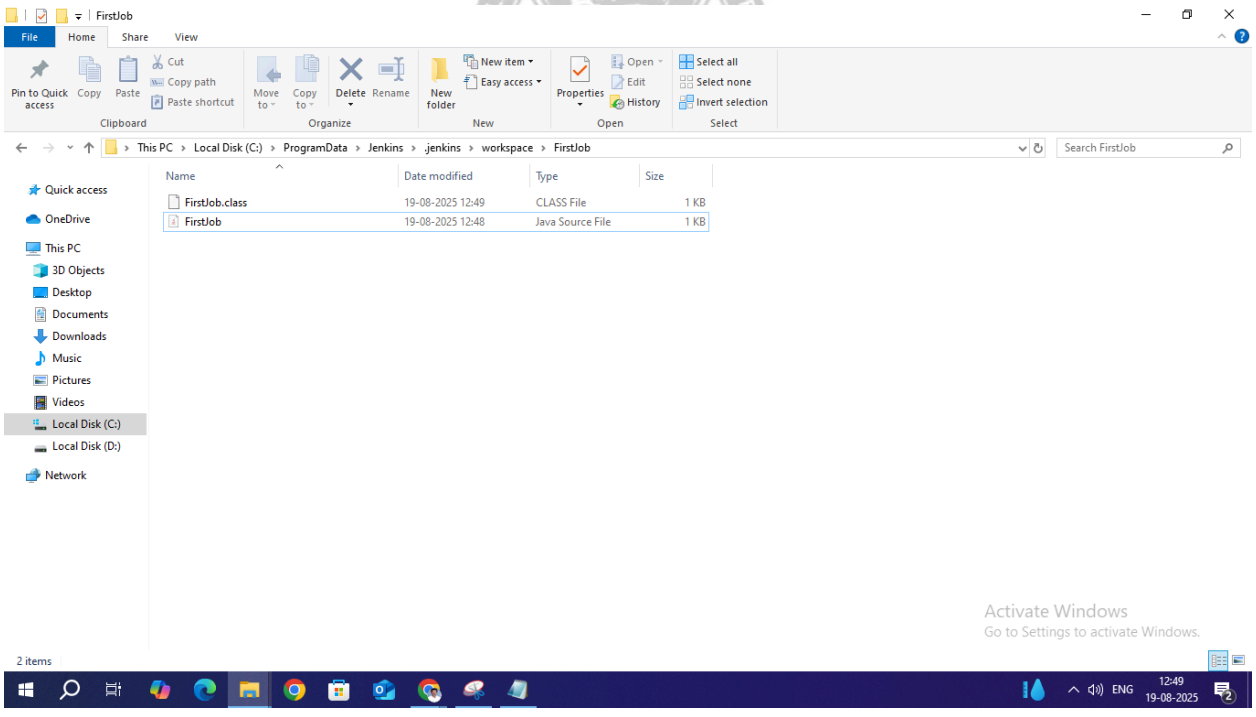

DEVOPS - Google Drive
UNIT III.pdf - Google Drive
Thank you for downloading Wi
FirstJob Config - Jenkins
localhost:8080/job/FirstJob/configure
Verify it's you
SSL Error
MTS India - MTS M...
Jobs in India | Caree...
Gmail
All Bookmarks
Jenkins / FirstJob / Configuration
Configure
General
Source Code Management
Triggers
Environment
Build Steps
Post-build Actions
Inspect build log for published build scans
Terminate a build if it's stuck
With Ant
Build Steps
Automate your build process with ordered tasks like code compilation, testing, and deployment.
Add build step
Filter
Execute Windows batch command
Execute shell
Invoke Ant
Invoke Gradle script
Invoke top-level Maven targets
Run with timeout
Set build status to "pending" on GitHub commit
sending notifications, archiving artifacts, or triggering other jobs.
Activate Windows
Go to Settings to activate Windows.
REST API
Jenkins 2.516.1
ENG
12:40
19-08-2025



Step 7: Click Apply and Save



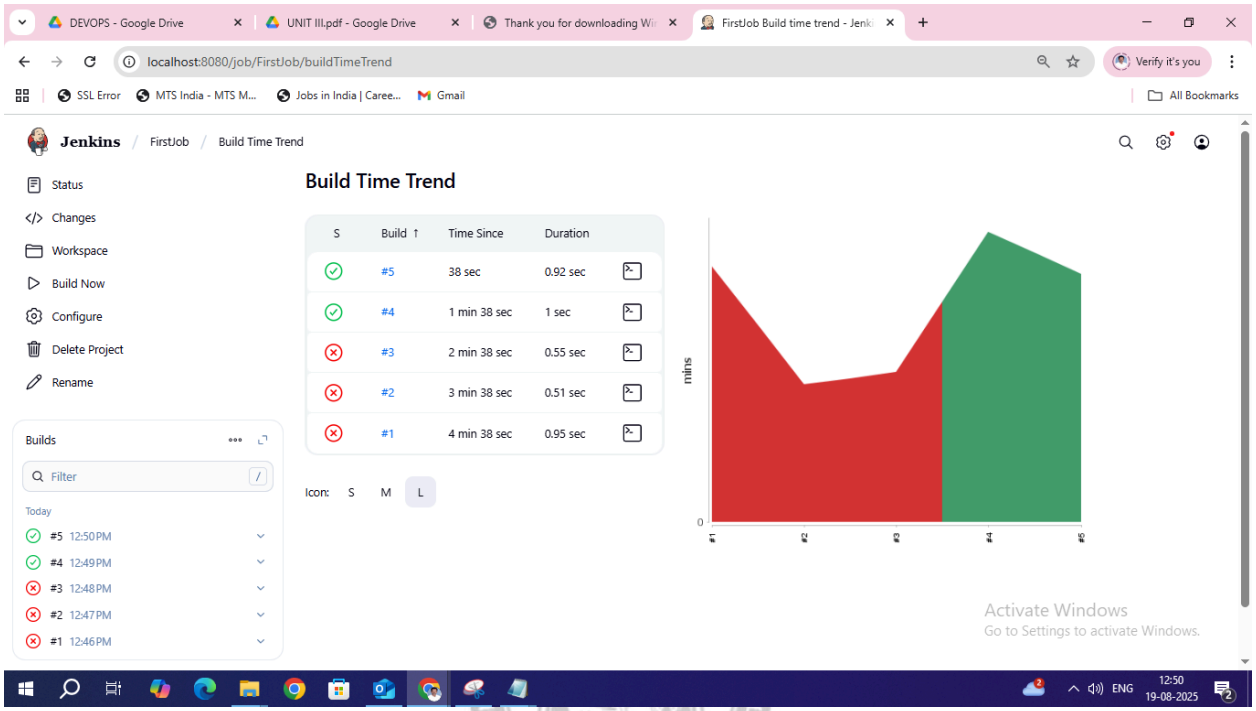


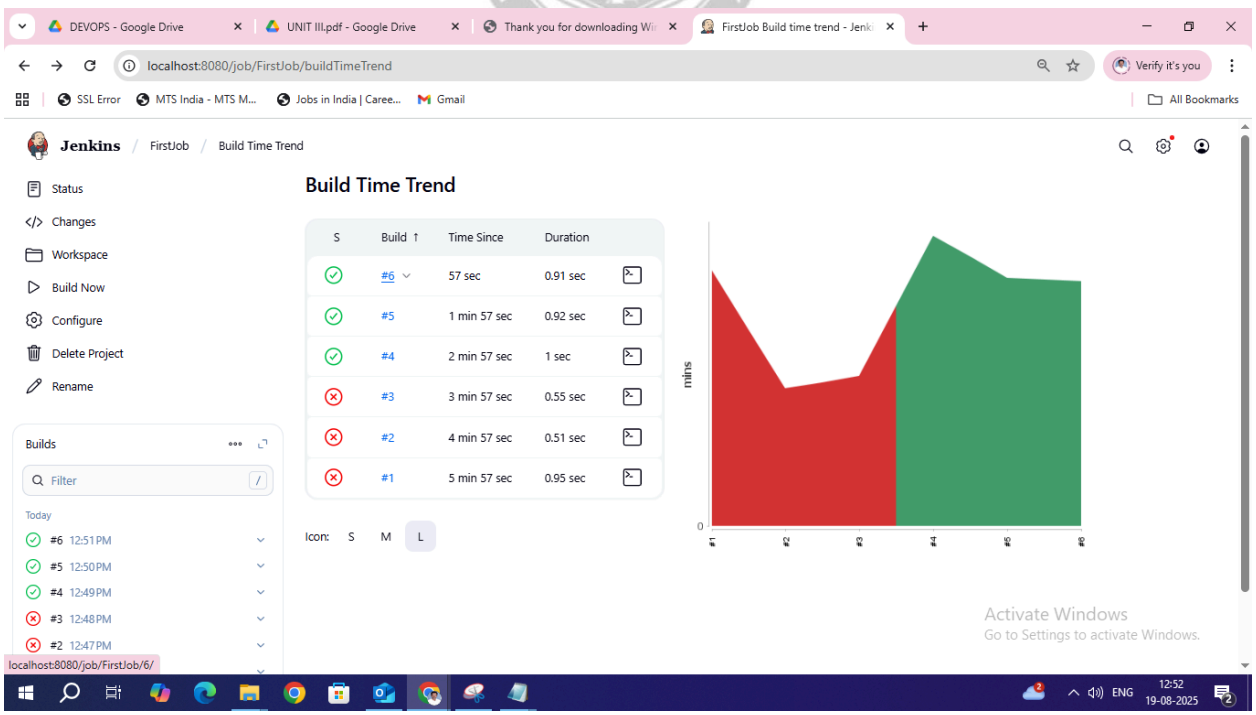


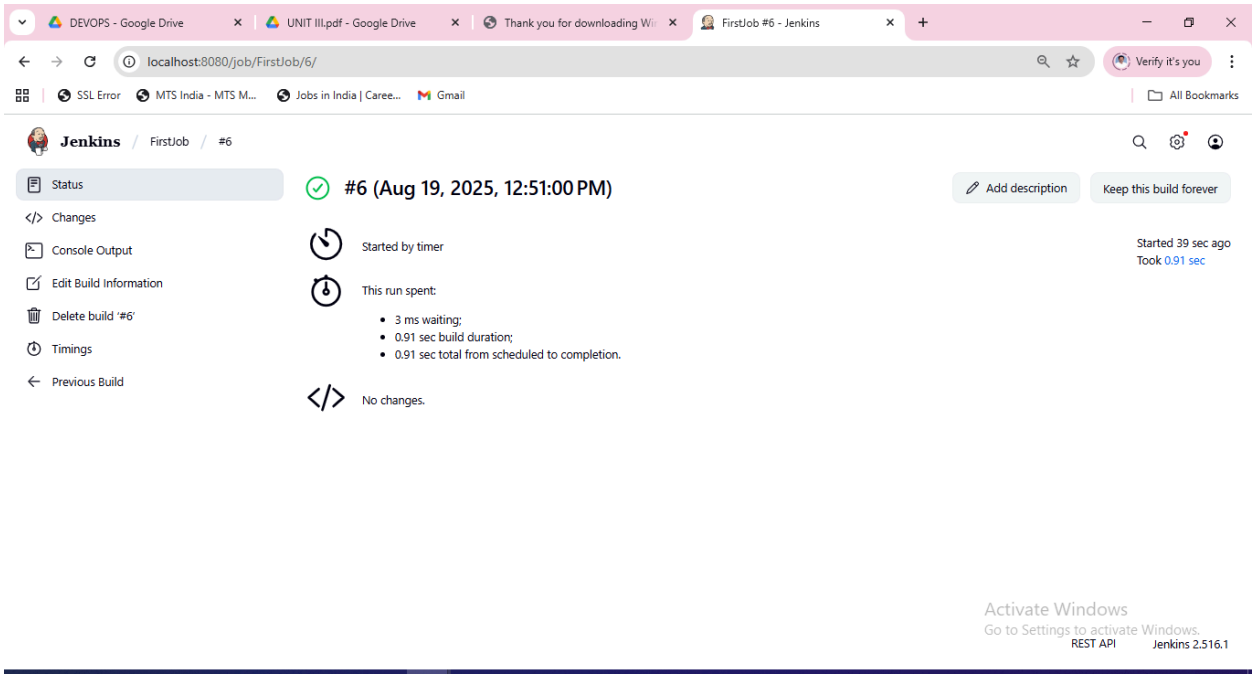

```
public class FirstJob
{
        public static void main(String args[])
        {
                System.out.println("First Java Program in Jenkins");
```

```
        }
}
```

Step 8: Check the status of the build by clicking on the build number







Step 9: Check the output in Console Output