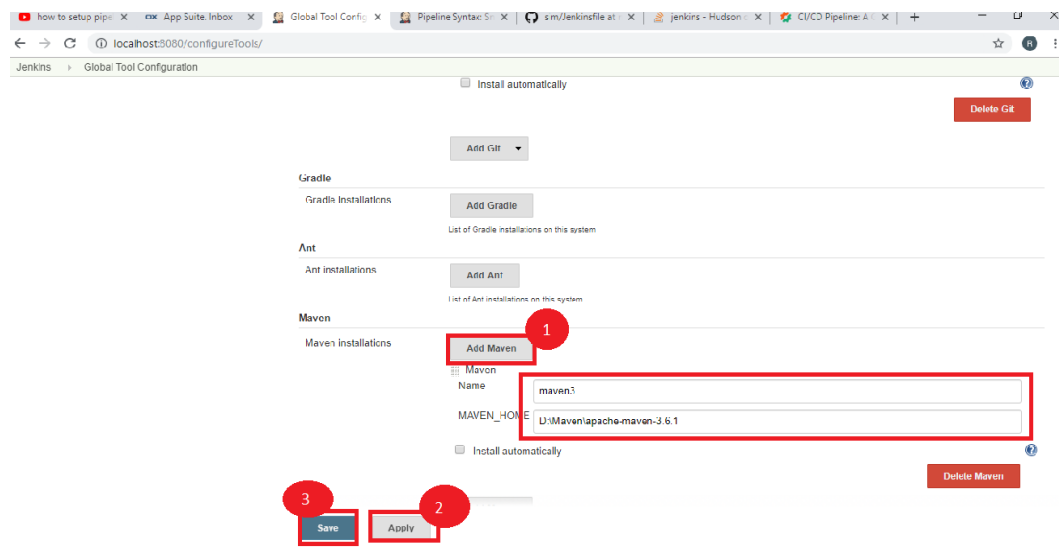


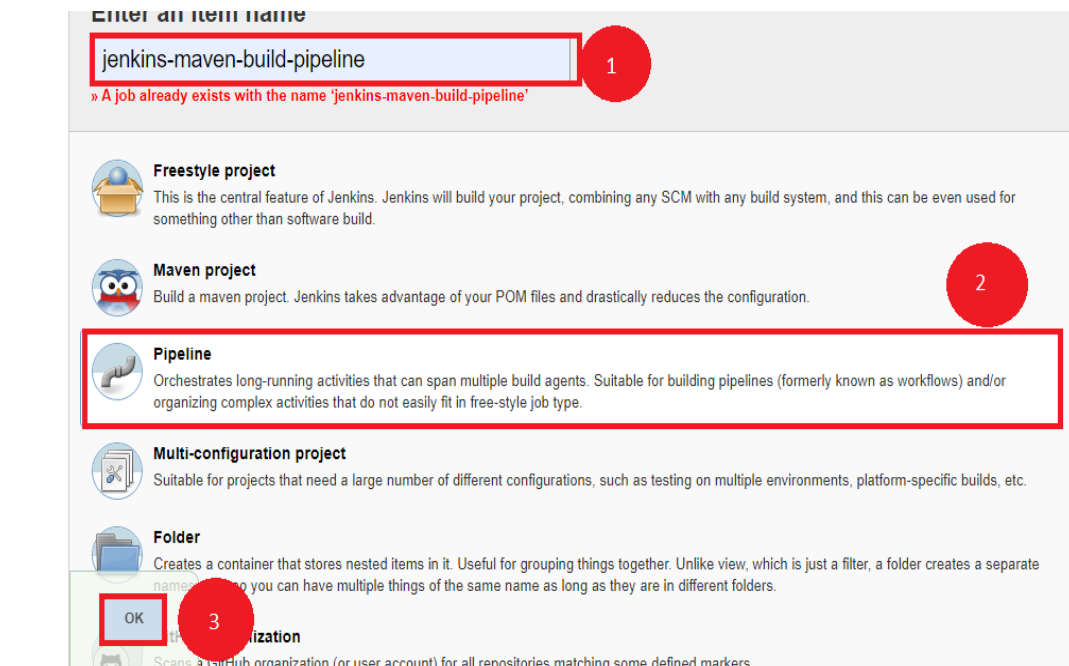
17. Build and configure CI/CD pipeline with Maven Project

Step 1: Setting up a Pipeline

- Jenkins is already set up in your practice lab. Refer to the lab guide for phase 2 for more information.
- Open Jenkins- localhost:8080.
- Click on **Manage Jenkins**.
- Select **Global Tool Configuration**.
- Set the path of **Java and Maven**.
- Then, **Apply and Save**.



- Select a **New Item**.
- Name the job: **Jenkins-maven-build-pipeline**.
- Select the **Pipeline**.
- Now, click on **OK**.



Step 2: Writing a Jenkins file

- Create a job that needs to be configured.
- Click on **Pipeline**.
- Select the definition as- **Pipeline script from SCM**.
- Pass the GitHub URL.
- Now, we need to write the Jenkins file inside that git file.

```
node{
  stage('SCM Checkout'){
    git 'https://github.com/Autamation/sim.git'
  }
  stage('Compile-Package'){
    def mvnHome = tool name: 'maven3', type: 'maven'
    bat "${mvnHome}/bin/mvn package"
  }
  bat 'mvn package'
}
```

- Now, click on 'Apply' and 'Save.'
- Click on **Build Now**.

Step 3: Pushing the code to GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

`cd <folder path>`

Initialize your repository using the following command:

`git init`

Add all the files to your git repository using the following command:

`git add .`

Commit the changes using the following command:

`git commit . -m "Changes have been committed."`

Push the files to the folder you initially created using the following command:

`git push -u origin master`