Uninstalling JENKINS

Control Panel > Uninstall
When done, delete the following folders:
C:\Program Files\Jenkins or C:\Program Files (x86)\Jenkins
C:\ProgramData\Jenkins
C:\Windows\System32\config\systemprofile\AppData search for jenkins file n delete
C:\Users\<<YOUR USER>> search for Jenkinsor .jenkins and delete that

If unable to delete due to administrative access :: run powershell as admin n type
Remove-Item C:\ProgramData\Jenkins

Go to : https://www.jenkins.io/
Install Jenkins

Git

1. Merge Conflict in Local

2. Merge Conflict in GitHub

Jenkins

1. Job with Hello World or Java Version(Batch Command).

New Item > Name >FreeStyle > Add Description
Build Steps : Add build Steps > **Execute Windows batch command > echo "Hello World" or javac --version**
Appy and Save
Enter Build Now

2. Same Job build periodically.(Two types : Build periodically, Poll SCM)

New Item > Name >FreeStyle > Add Description
In Build Triggers : Select **Build periodically and Poll SCM**
Inside give 5 stars (* * * * *)
1. *** * * * * = Per Minute**
2. **H/15 * * * * = Per 15 Minutes**
3. **H H * * * = Every Per Day**

Build Steps : Add build Steps > **Execute Windows batch command > echo "Hello World" or javac --version**
Appy and Save
Enter Build Now

3. Pipeline:
- ### with 3 Jobs (Build, Test, Deploy) using View(+)
  Install Pulgins:
  Manage Jenkins > Manage Plugins > Available Pulgins > Search **Build Pipeline Plugin**

  Create 3 jobs Build, Test and Deploy.(refer Q.1)
  Go to Job **Build > configure**
  In Post-build action > Select build other project or build other project(manually) > In projects to build > Enter Next Job name (Test). Apply and save
  Repeat the same for Test.

  Create Pipeline View.
  In dashboard select new view (+)
  In New view : add name > select build Pipeline View>Add name>select initial job>Apply and save

- ## With pipeline script with helloworld(Declarative)
  In dashboard :-new item >enter name>select pipeline>pipeline>script>select hello world from right corner>apply and save and build project
- ## Pipeline script with svm(Declarative)
  In dashboard :-new item >enter name>add poll svm or build periodically >select pipeline>pipeline>script>pipeline script from svm >in svm select git > paste repository from git with a jenkinfile >credential add email and password of app or gitpassword try >branches select main or master >script :jenkinfile refer from github >apply and save .

- ## Pipeline script with svm webhook
  In dashboard :-new item >enter name >select pipeline>pipeline>script>pipeline script from svm >in svm select git > paste repository from git with a jenkinfile >credential add email and password of app or git password try >branches select main or master >script :jenkinfile refer from github >apply and save .
  Go to git hub :go to repo with jenkinfile>settings >webhook>add webhook>payload url from ngrok:commands 1)ngrok.exe http 8080
  Paste the link after /github-webhook/ >select send me everything >select activate>add webhook .
  Relode the git hub after making changes to a file >go to jenkins and reload it will build automatically .

4. Email:
- ## E-mail Notification
  Go to dashboard >manage jenkins >configure system>go buttom >email Notification>smtpserver:-smtp.gmail.com>select use smtp authentication:user name: email password:app generated >use ssl tick >smtp port:465>reply to address: email >charset :utf-8>test configuration by sending test e-mail add email and test configuration the message will be sent to your email.
- ## Extended E-mail Notification

Go to dashboard >manage jenkins >configure system>go buttom>Extended-EmailNotification>smtpserver:-smtp.gmail.com >smtp port:465>Credential :-username :-email password :app generate add discription add use ssl tick >default content type:html(text/html)>default triggers:select :-always.
Create a job >freestyle>got to buttom post-build action :-select Editable Email Notification >project from :any name>project recipient :-(email id) project-reply-to-list :-(email id)> content type (html/text) apply and save build a job it will get notification to your mail

- **Extended E-mail Notification with Pipeline.(Two types : with Pipeline script , Pipeline script with svm)**
  Go to dashboard>new item >pipeline >select build periodically>pipeline select :-pipeline script trysamplepipline select hello world paste the program:-

```
pipeline {
   agent any

   stages {
      stage('build') {
         steps {
            echo 'Hello World'
         }
      }
      stage('test') {
         steps {
            echo 'Hello World'
         }
      }
      stage('deploy') {
         steps {
            echo 'Hello World'
         }
      }
   }
   post
   {
      always
      {
```

```
              emailext body: 'body', subject: 'bodypipeline',
         to:'hanonoharprabhu04@gmail.com'
              }
            }
          }
```

Apply and save and build the project

Go to dashboard>new item >pipeline >select build periodically>pipeline select>pipeline script from SCM>Add scm :-git >repositiory >repository url:-git email >credential add git hub user name :- email password :-git or app generated>discription :-add anything >scriptpath :jenkinfile or see the git hub file name apply save and build .

5. Role Based Authorization

Manage Jenkins > Manage Plugins > Role Based Authorization > Install>got to manage jenkins >configure global security>authorisation :-select roal based strategy apply and save .

Go to dashboard :-new item >item name:-anything >click on folder >ok
In folder create a job>job name >freestyleproject >ok
Run normal with execute windows batch command appy and save

Go to dashboard>manage jenkins >manage and assign roles>manage roles >global roles > role to add>add role (eg :-qa) click on overall :-read>go to item roles :roles to add:-(eg:-qa) pattern:-qa.* add in item roles above add the permission which had been given in question paper >apply and save
Go to manage je jenkins >manage users >create a user>username:-qa password:1234 confirm password 1234 fullname :-qa
email:-qa@gmail.com click on create user

Go to dashboard >manage jenkins >manage and assign roles >assign roles >user/group to add:-(eg:-qa) add click on upper qa > item roles>user/group to add :(eg:-qa) add click on upper qa role add>apply and save

Logout and log in with the created user account and check weather you have folder with right permission or nor . if he give more roles and folders accordingly