To understand Continuous Integration, install & configure jenkins with maven Ant & Gradle.

→ ① Download jenkins

Pre-requisite
Java
Git

⇓

Build job

⇓

execute windows batch command

⇓

echo   This is first job

⇓

Build now

② Download Apache maven → Set environment variable

| Build mavenproject | ← new item

③ Global tool config → maven → addmaven,
Name [my maven] → Save.

④ JDK installation [add jdk]
☑ install automatically.
version [   ]
Create oracle a/c. with gmail

(5) Configure

Build → invoke top-level maven.

maven version

[my maven]

Goals

[Compile.] ⟶ Save

(6) Configure
source code management
① git
   paste link in url
[github.com/jleetutorial/maven-proj

Build

CI/CD pipeline

New item → project compile → freestyle → ot

① **project_compile**

Configure → general → [Source code manage]
  Ⓞ git
    url → tutorial/maven-project
  go to build → Invoke top-level maven
    maven Version [my maven]
      goals → [Compile]
  [Save] → build now

② **Project_Test** ← create new build

Configure → Source code management
Ⓞ git → add url
  go to build → Invoke top-level maven
    Maven version [my maven]
      goals → [test]
  [Save] → build now

⇒ go into project Test → Status
  → workspace
  workspace of test on master

		Sure-fire reports
☐ git	·☐ Src	
☑ server ← click	·☑ target ← click	↑
	·☐ PomXmL	you can see
		test cases [Screen]

Server/target/Surefire-reports

Configure
    ↳ post build actions → add post buil
    action → publish Junit test result
    reports
    Test report Xmls
    Server/target/Surefire-reports/*.Xml

               To perform testcases
          in group we use *.Xml.

⇓   [Save] → build now

⇒ on your screen you will see
latest test result along with graph

How to check test result. for multiple
testcases → by clicking on the respecti-
ve graph.

③ [project=package]

SameSteps   goals [Package] → save → build
                               now

Console o/p
building war file

Go back to project-package
    ↓ workspace → webapp → target →
      webapp.war ← respected
                  package build
               Successfully

Go to dashboard

Click on project_compile → Configure →
post build action → add post →
build other project

projects to build [project_test]
      ⊙ trigger only if build is stable
[Save]

In project-compile we will get downstr
eam project i-e. next project

In project_test → Configure
build trigger
   ↓ ☑ build after other projects are built

Build
Triggers [Project_compile]

      ⊙ trigger only if build is stable

⇓

post build action → build other projec

[Project_package]

Dashboard → build. now → Compiler
                     Project

manage jenkins ⇓
  manage plugins
  → available → build pipeline ☑
  & install w/o restart!

go to dashboard [All] (+) ← click

view name
[Devops CICD pipeline]
⊙ build pipeline view [OK.]

upstream /downstream config
⊙ select initial job
[project_compile]

Restrict trigger | build card [Standard
⊙ no   build card]
[OK]

vill get → build pipeline

ashboard → Click pipeline → click (Run)

(Configure) ← display option
        no. of display [5]