UNIVERSITY INSTITUTE of COMPUTING
Asia's Fastest Growing University

NAAC GRADE A+ ACCREDITED UNIVERSITY

Experiment No. 2.2

Student Name: Rishav Kumar **UID:** 22MCC20039
Branch: MCA - CCD **Section/Group:** MCD-1/ Grp A
Semester: III **Date of Performance:** 26th Sep 23
Subject Name: DevOps Process Automation Lab **Subject Code:** 22CAP-745

1. Aim/Overview of the practical:

A. Write a Scripted Pipeline to execute the build pipeline with all the 9 goals of Maven.

B. Execute the Scripted Pipeline via Scripted Pipeline with SCM. Name the file as Jenkinsfile and build a pipeline.

Code for practical:

A.

- Open Jenkins on localhost and login with your credentials.
- Go to ***Manage Jenkins>Plugins*** and install build pipeline plugin.
- Click on ***New item > Pipeline***.
- Select ***Definition > Pipeline script***
- Write pipeline script as follows.

jenkinsfile

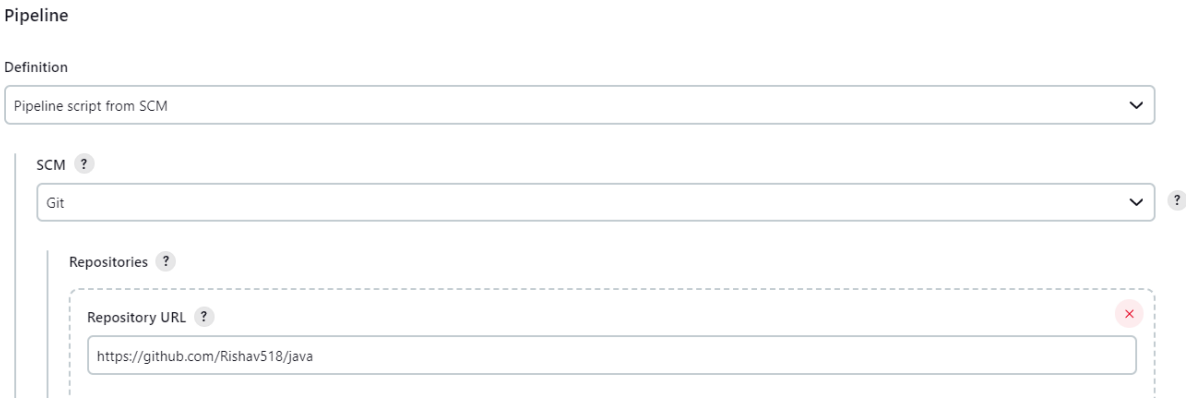
```
pipeline {
    agent any
    tools {
        maven 'mvn'
    }
    stages {
        stage("Fetching") {
            steps {
                git branch: "master",
                url: "https://github.com/Rishav518/java"
            }
        }
        stage("Compile") {
            steps {
                bat 'mvn compile'
            }
        }
        stage("Test"){
            steps{
                bat 'mvn test'
            }
        }
        stage("Package"){
            steps{
                bat 'mvn package'
            }
        }
        stage("Verify"){
            steps{
                bat 'mvn verify'
            }
        }
        stage("Install"){
            steps{
                bat 'mvn install'
            }
        }
    }
}
```

- Click on Save and Build now.
- Pipeline will be built in some moments.

Stage View

B.

- Open Jenkins on localhost and login with your credentials.
- Click on ***New item > Pipeline***.
- Select ***Definition > Pipeline script from SCM> Git***.
- Enter GitHub repository URL and select branch



- Create a Jenkinsfile and paste scripted pipeline and commit to github.
- In script path add Jenkinsfile.

Script Path ?

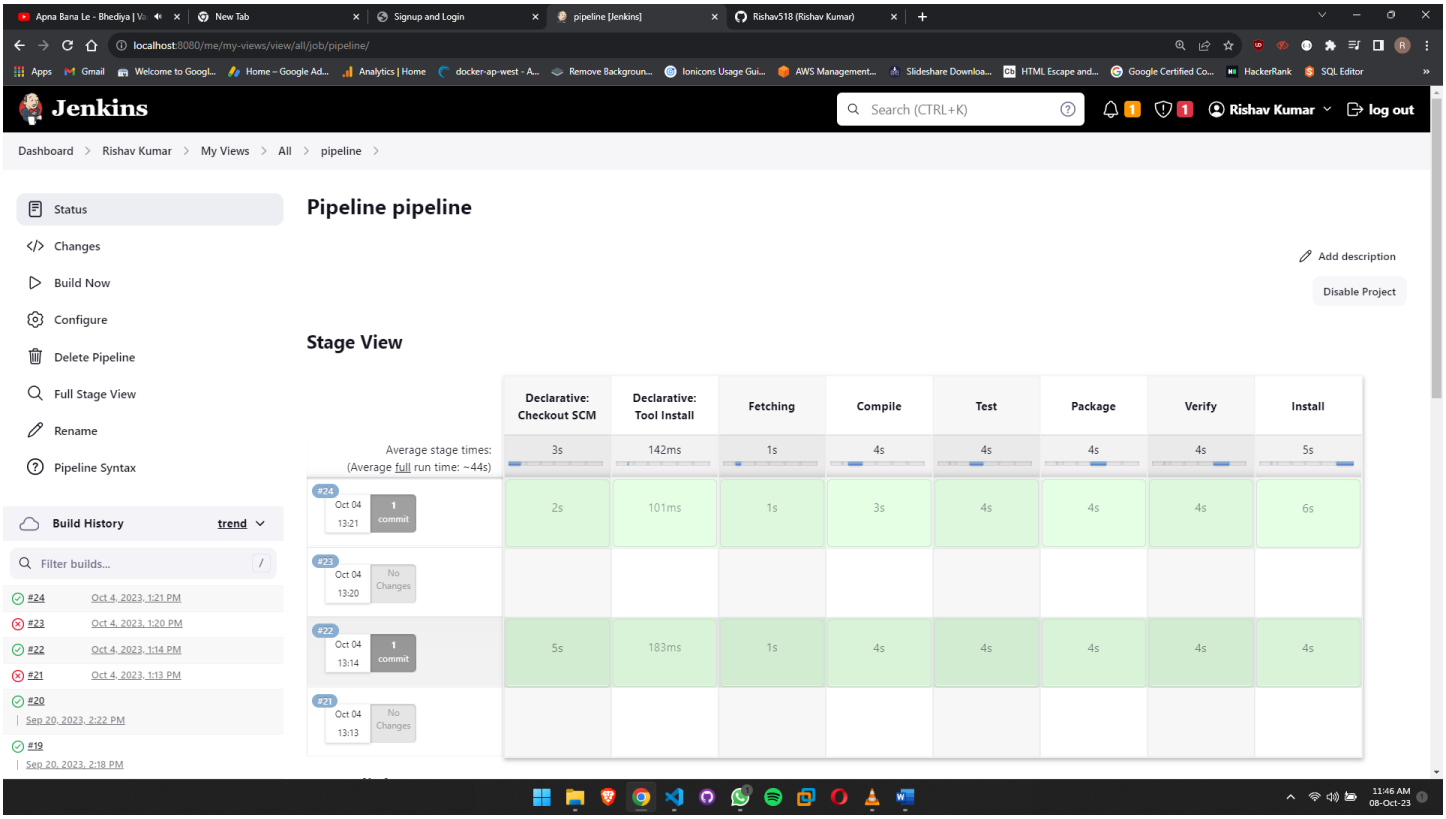
jenkinsfile

Lightweight checkout ?

Pipeline Syntax

Save Apply

- Save pipeline and click on build now.
- Pipeline will be built in some moments.



********** THE END **********