



ExperimentNo.1.6

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Branch: MCA–CCD **Section/Group:** MCD-1/A

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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.

2. Steps for practical: (a)

Step 1: Create a new file in the root directory of your project. Name the file as Jenkinsfile and add the pipeline script for 9 mayen goals.

```
pipeline {
   agent any
   tools{
      maven 'M1'
   stages
       stage('Fetching')
               git branch:'main', url:'https://github.com/vignesh-vp/SpringPetClinic'
       stage('Compile')
           steps
               sh 'mvn compile'
        stage('test') {
           steps {
sh 'mvn test'
       stage ('package') {
             echo 'Packaging the Maven Project'
              sh 'mvn package
      stage('verify') {
            echo 'Verifying the Maven Project'
```

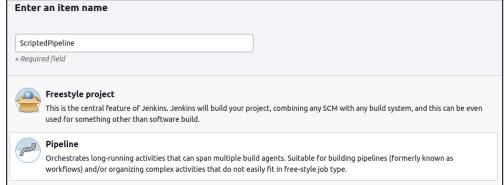




```
sh 'mvn package'
   stage('verify') {
      steps {
         echo 'Verifying the Maven Project'
         sh 'mvn verify'
  stage('install') {
      steps {
         echo 'Installing the Maven Project'
         sh 'mvn install
 stage('executing generate jar') {
      steps {
          echo 'Executing the generate jar file'
          sh 'java -jar ./target/Sum.jar 10 25 30 55 67 89'
stage('clean') {
    steps {
       echo 'Cleaning the Maven Project'
       sh 'mvn clean'
```

Steps for practical: (b)

- **Step 1:** To create a scripted pipeline via Jenkins SCM. First create a new pipeline by clicking on "+" icons on the Jenkins dashboard.
- **Step 2:** A new window will appear select **pipeline** option from menu and give a name to your pipeline and then click on OK.

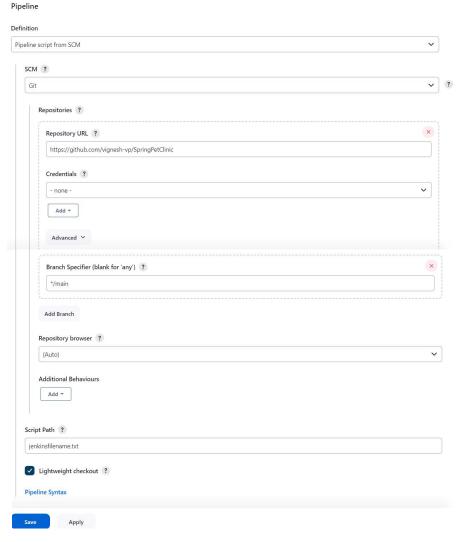


Step 3: A new window will appear from which you can configure the create pipeline by providing scripts and selecting options.





- **Step 4:** Go to the Pipeline Section and select Pipeline script from SCM from the drop-down menu for the **pipeline Definition.**
- **Step 5:** For SCM option select Git and provide repository URL and branch name.
- **Step 6:** After all that give the Jenkins file name that is present inside your project (case sensitive) under **Script Path** and click **Save.**



- **Step 7:** After that, from the right-hand side menu click on **Build Now** option.
- **Step 8:** If build success or fail, you will see a green or red indicator.

