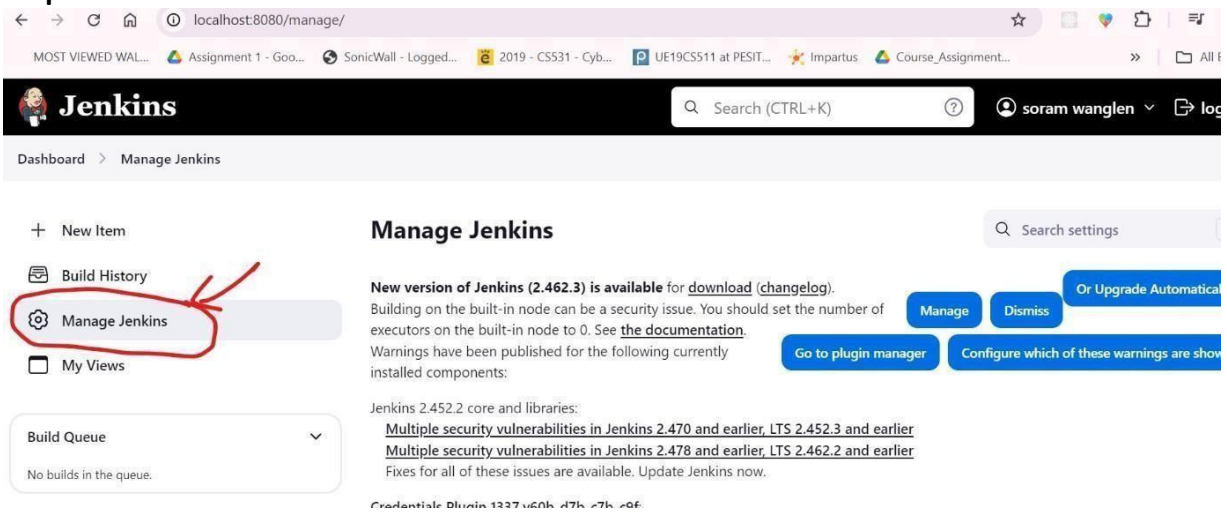
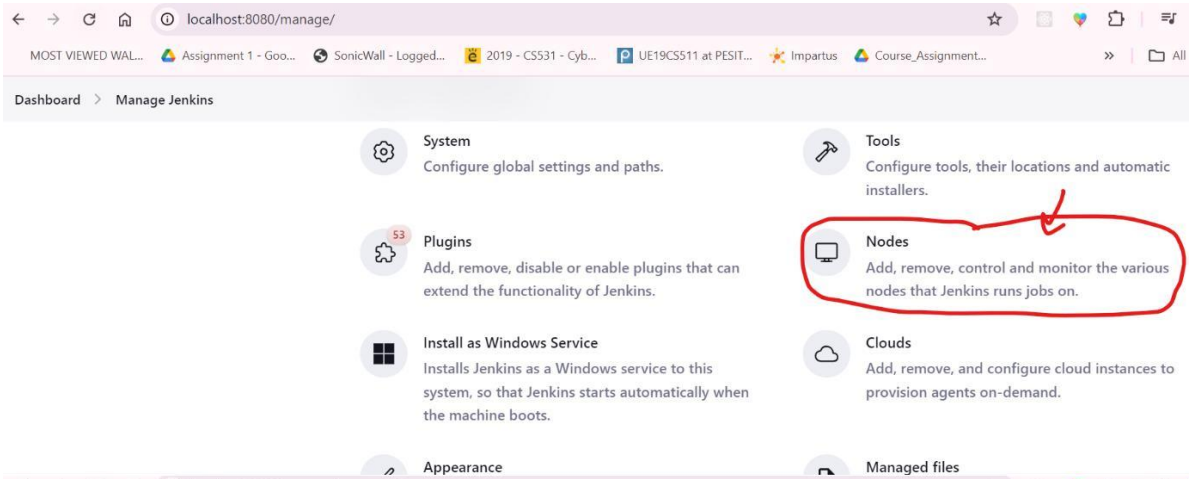
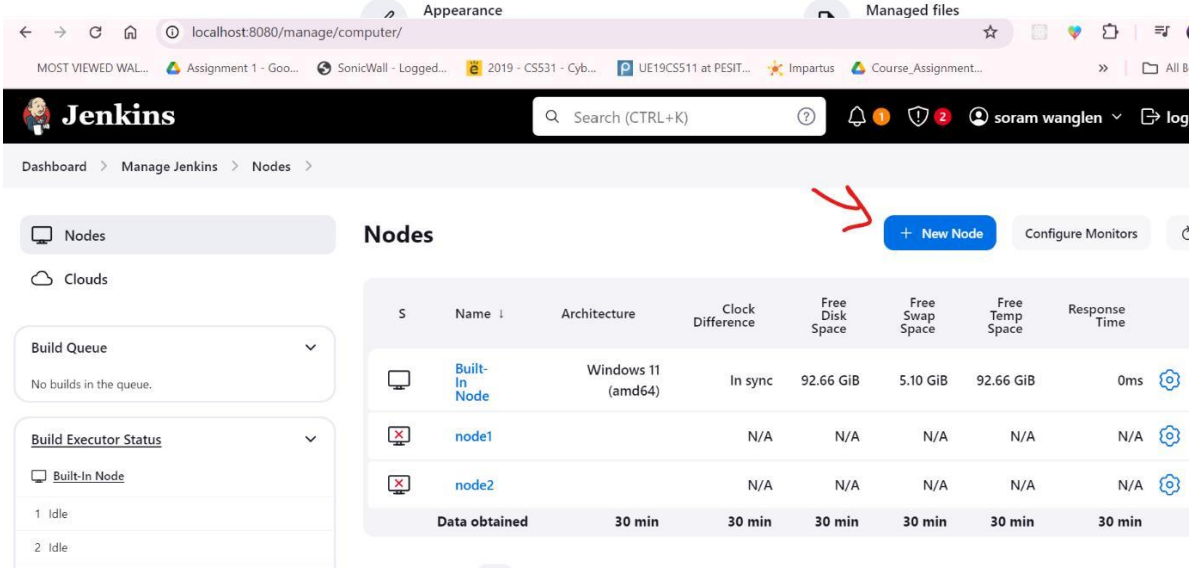
Practical 8

Titel : Use Jenkins to set up a distributed pipeline that will compile and test a Maven project on two different slave nodes respectively.

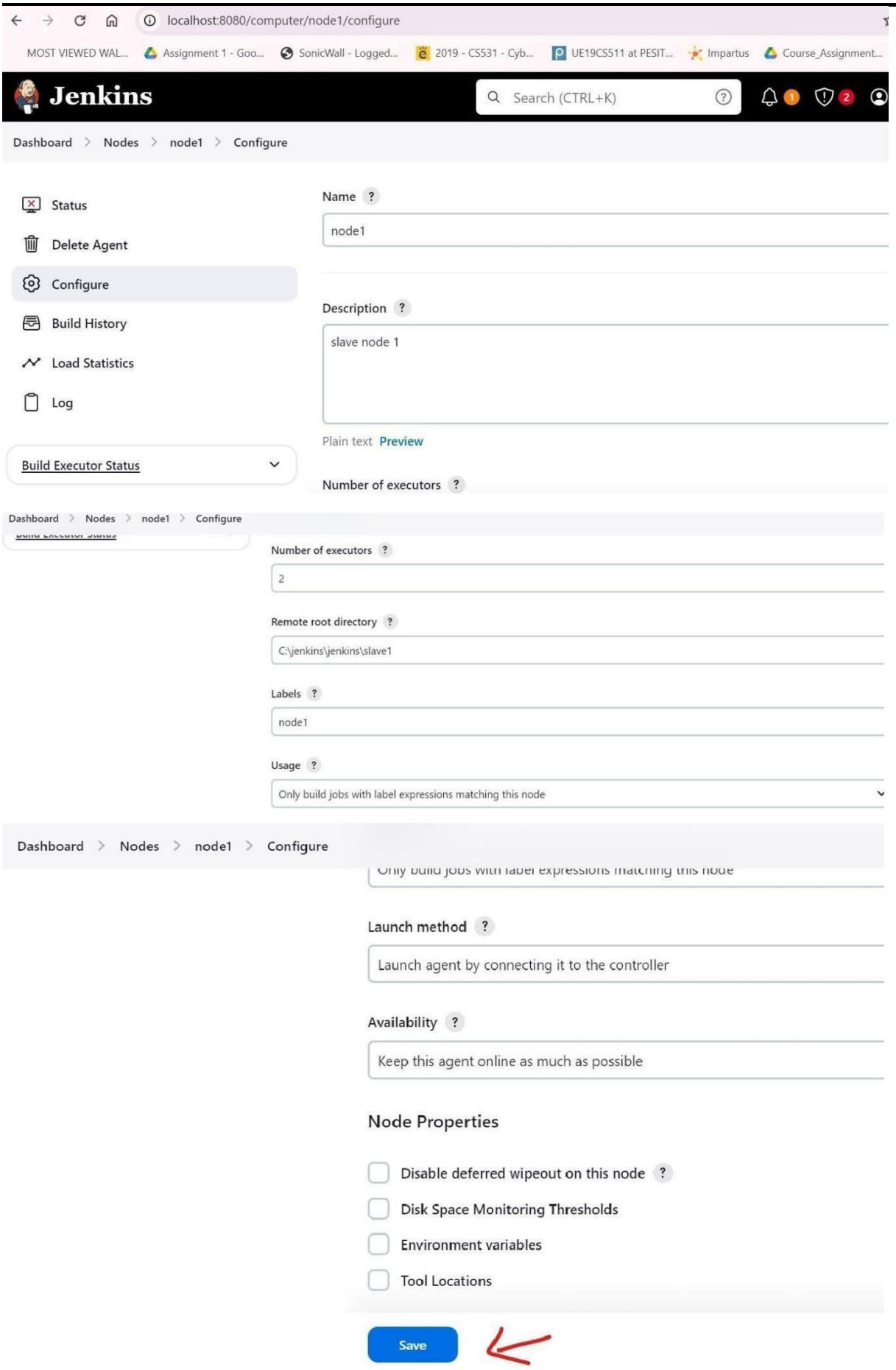
Step 1: Create two slave nodes in Jenkins.



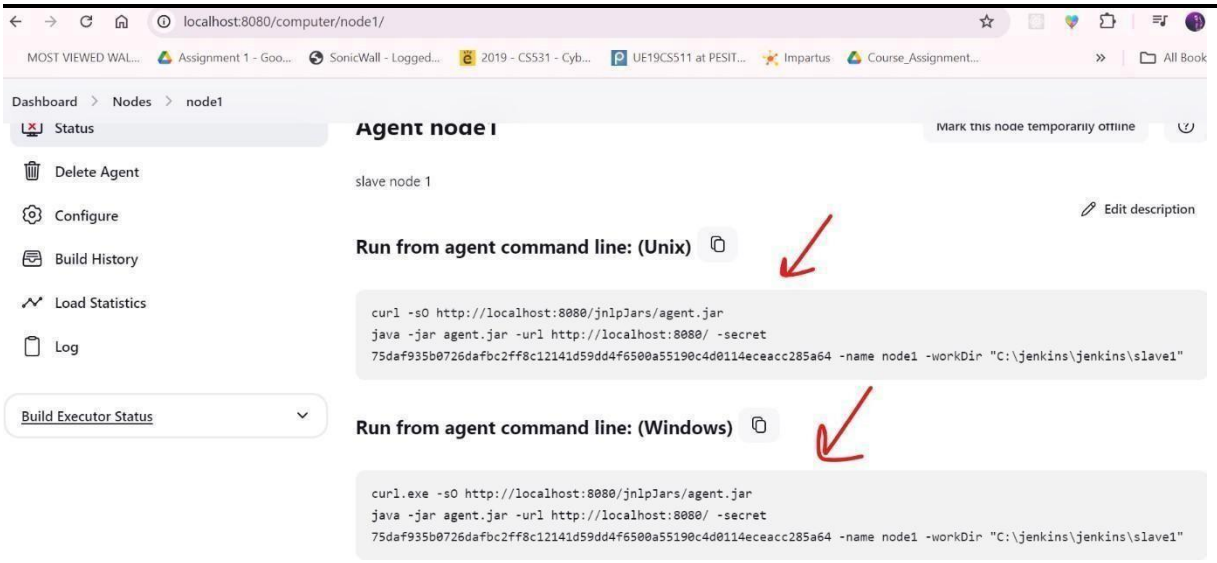




Step 2: Configure it.

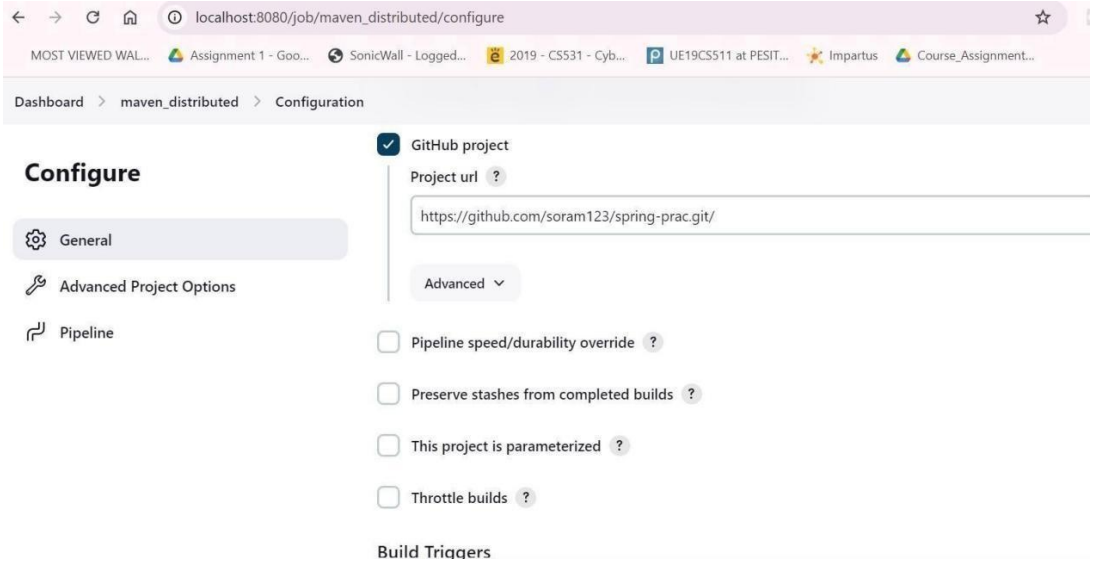


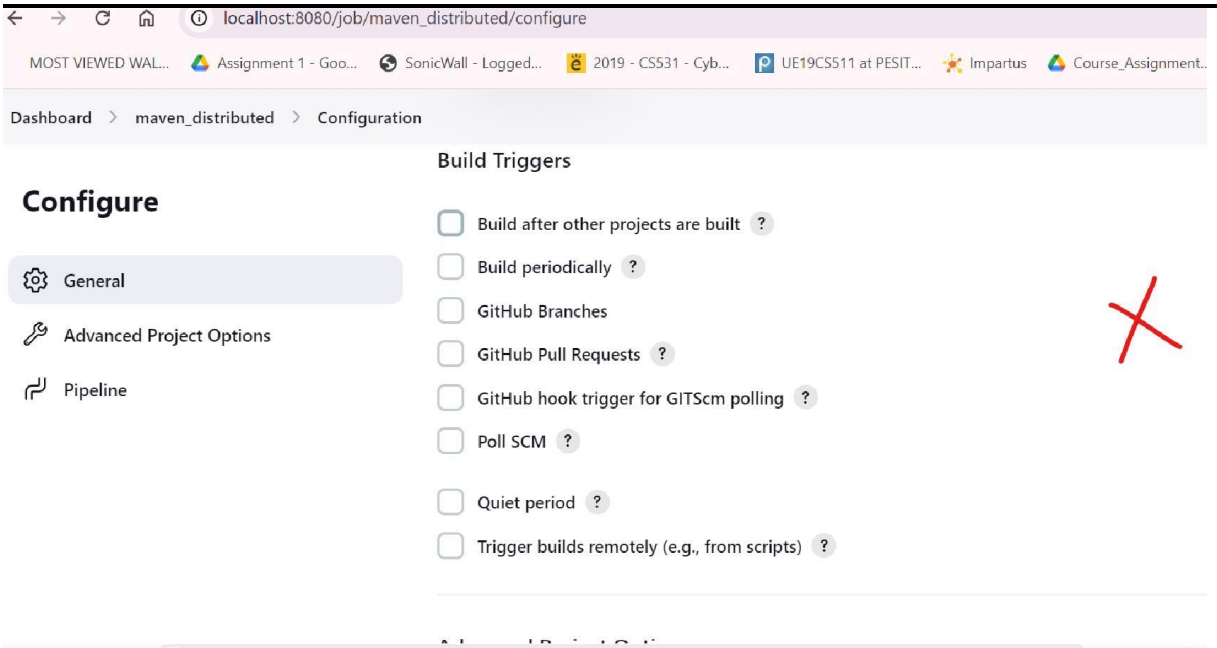
Step 3: Similarly create another agent
Step 4: Start your Jenkins agent.

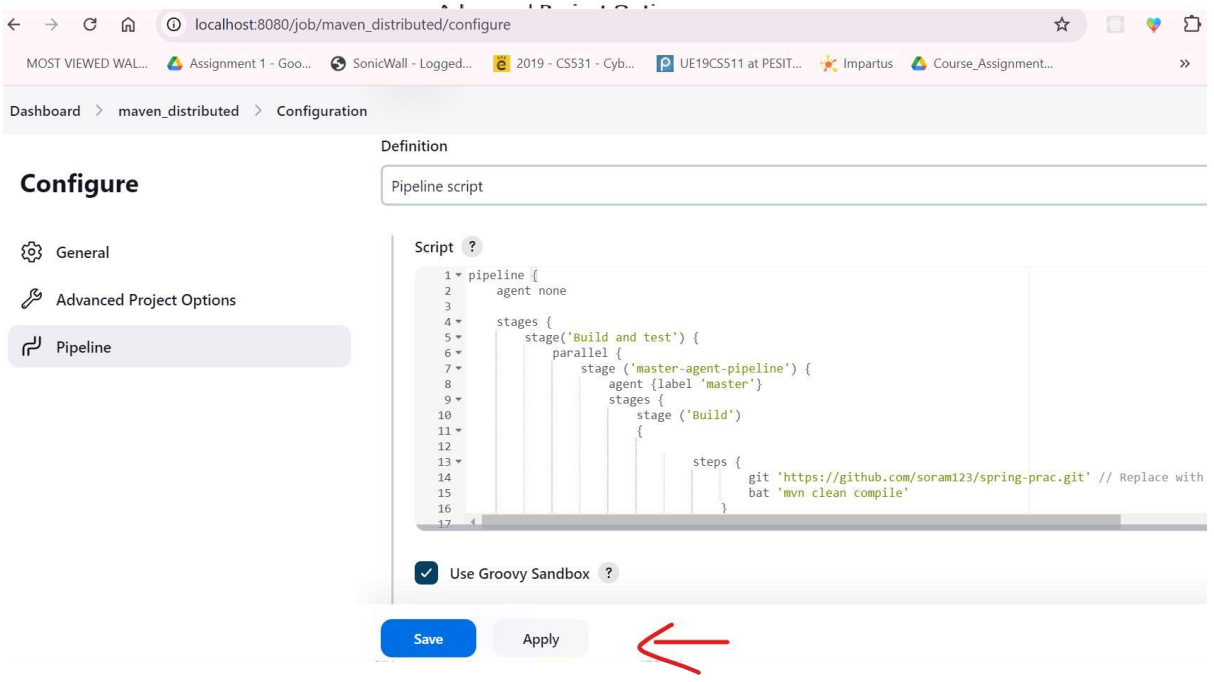


Run the respective commands in linux or windows accordingly.
Note : after starting the agents it should not be idle.

Step 5: Create a new pipeline job and configure it.







Here is the whole pipeline script:

```
pipeline
  {agent
  none

  stages {
    stage('Build and test')
      { parallel {
        stage ('master-agent-pipeline')
          {agent {label 'master'}
          stages {
            stage ('Build')
            {
                    steps {git 'https://github.com/soram123/spring-prac.git' // Replace with your Git
                    repository
```

```
URL
                    bat 'mvn clean compile'
                  }

        }
        stage ('Test')
          { steps {
             git 'https://github.com/soram123/spring-prac.git'
              bat 'mvn test'
          }
        }
      }
    }
    stage('windows-agent1-
      pipeline'){ agent {label 'node1'}
      stages
        { stage('Build')
        {
          steps {
URL           git 'https://github.com/soram123/spring-prac.git' // Replace with your Git repository

                bat 'mvn clean compile'
          }
        }
        stage('Test'){
          steps {
             git 'https://github.com/soram123/spring-prac.git'
              bat 'mvn test'
          }
        }
      }

    }
     stage('windows-agent2-
      pipeline'){ agent {label 'node2'}
      stages
        { stage('Build')
        {
          steps {
URL           git 'https://github.com/soram123/spring-prac.git' // Replace with your Git repository

                bat 'mvn clean compile'
          }
        }
        stage('Test'){
          steps {
             git 'https://github.com/soram123/spring-prac.git'
              bat 'mvn test'
          }
        }
      }}
```

```
    }
  }
}}
```

Step 6: Now build it.