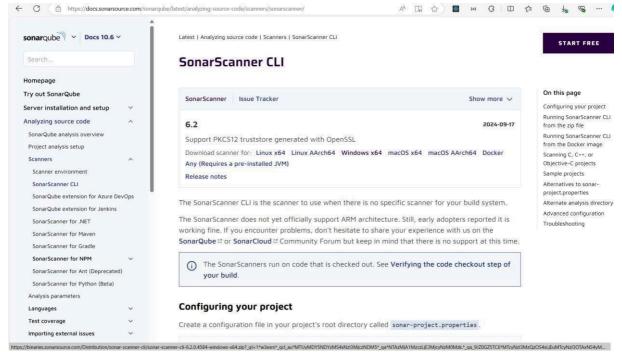
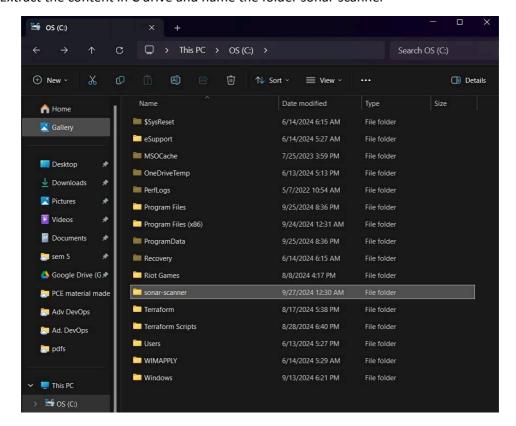
Experiment 8

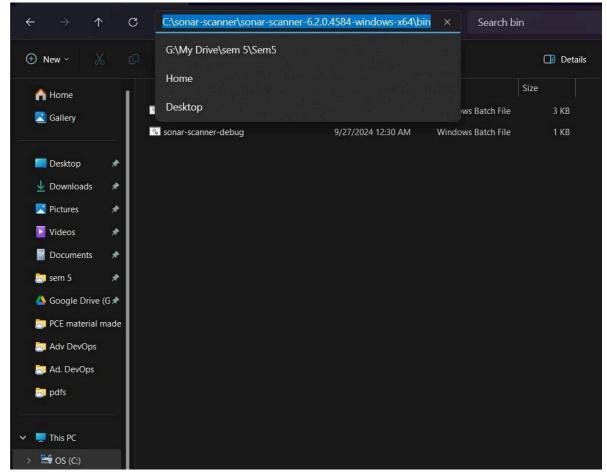
Aim: Create a Jenkins CICD Pipeline with SonarQube / GitLab Integration to perform a static analysis of the code to detect bugs, code smells, and security vulnerabilities on a sample Web /Java / Python application.

Step 1: Visit the following link to download the SonarScanner CLI - https://docs.sonarsource.com/sonarqube/latest/analyzing-source-code/scanners/sonarscanner/ and then click on Windows x-64 to download the zip file.



Step 2: Extract the content in C drive and name the folder sonar-scanner



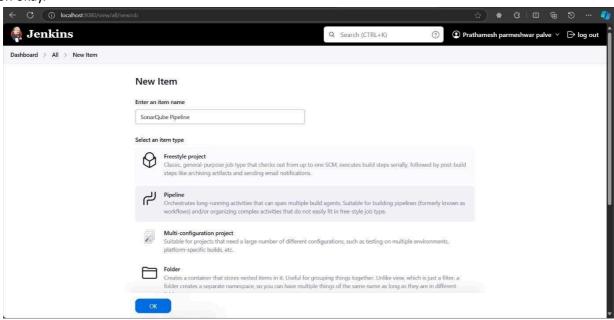


Step 3: Open Command Prompt and run as administrator and run the following commands – cd C:\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin dir sonar-scanner.bat

```
C.\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin>dir
Volume in drive C is OS
Volume Serial Number is E888-2288

Directory of C.\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin
Directory of C.\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin
Directory of C.\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin
Directory of C.\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin
Directory of C.\sonar-scanner\sonar-scanner-debug.bat
Directory of D
```

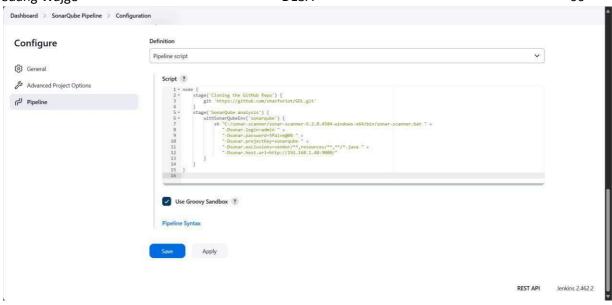
Step 4: Open Jenkins and create a pipeline and name the pipeline SonarQube Pipeline and then click on okay.

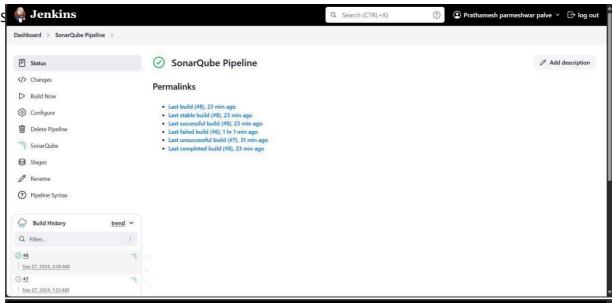


Step 5: In the configuration, under the Pipeline Section write the following Pipeline Script -

```
node {
  stage('Cloning the GitHub Repo') {
    git 'https://github.com/shazforiot/GOL.git'
  }
  stage('SonarQube analysis') {
    withSonarQubeEnv('sonarqube') {
      sh "C:/sonar-scanner/sonar-scanner-6.2.0.4584-windows-x64/bin/sonar-
scanner.bat "+
        "-Dsonar.login=admin" +
        "-Dsonar.password=5Palve@08" +
        "-Dsonar.projectKey=sonarqube " +
        "-Dsonar.exclusions=vendor/**,resources/**,**/*.java " +
        "-Dsonar.host.url=http://192.168.1.40:9000/"
    }
  }
}
```

Then click on the save button.







Step 7: Now, visit http://192.168.1.40:9000/dashboard?id=sonarqube to see the result.

