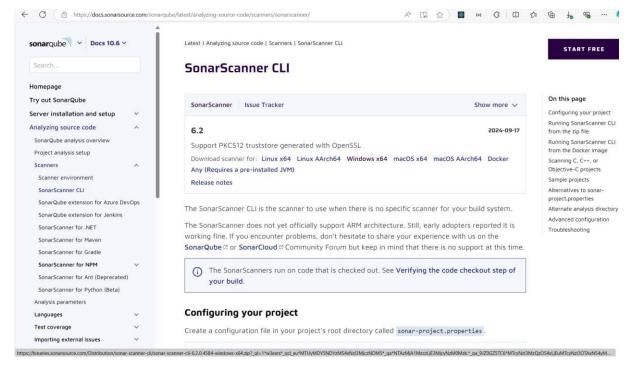
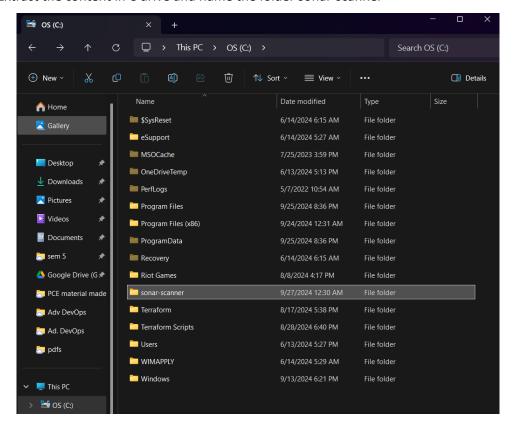
Experiment 8

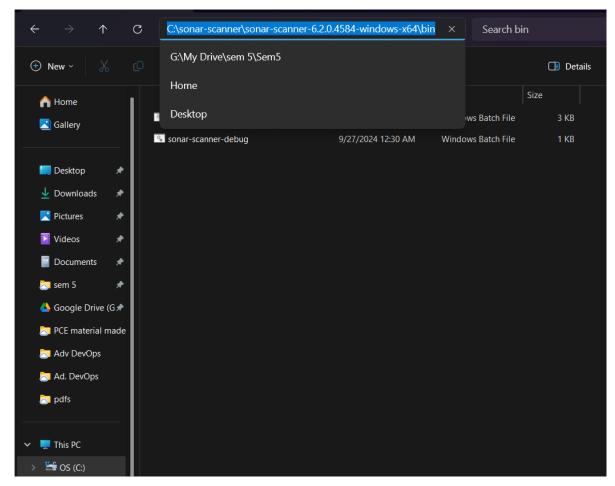
Aim: Create a Jenkins CICD Pipeline with SonarQube / GitLab Integration to perform a static analysis of the code to detect bugs, code smells, and security vulnerabilities on a sample Web /Java / Python application.

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.



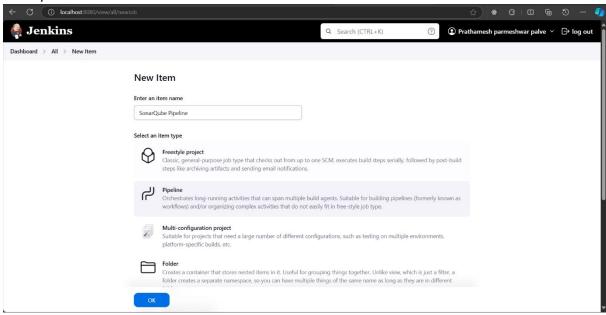
Step 2: Extract the content in C drive and name the folder sonar-scanner





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

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 " +

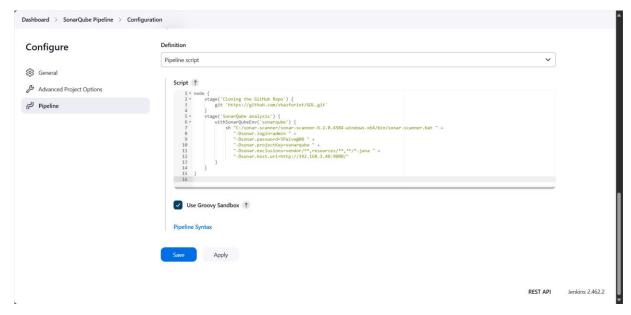
"-Dsonar.exclusions=vendor/**,resources/**,**/*.java " +

"-Dsonar.host.url=http://192.168.1.40:9000/"

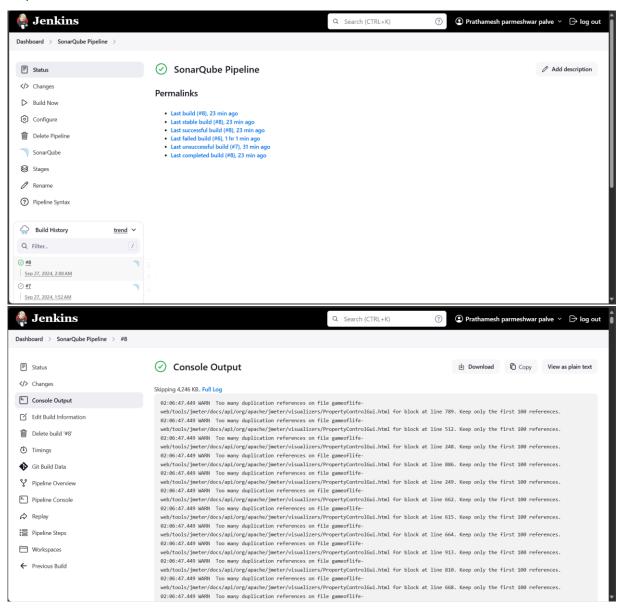
}

}
```

Then click on the save button.



Step 6: Now, click on Build Now and the build is successful.



Step 7: Now, visit http:// 192.168.1.40:9000/dashboard?id=sonarqube">http:// http:// http:// 192.168.1.40:9000/dashboard?id=sonarqube">http:// http:// http://">http:// http://">http:// http://"

