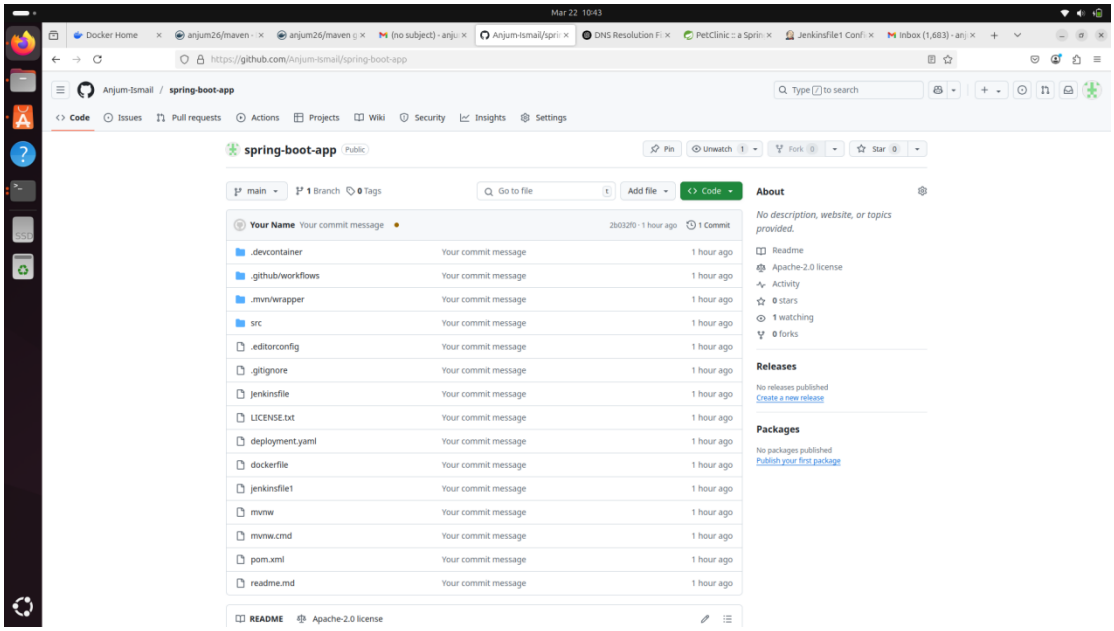
TASK -5

PUSH THE GIVEN REPO GIVEN INTO YOUR GITHUB:-



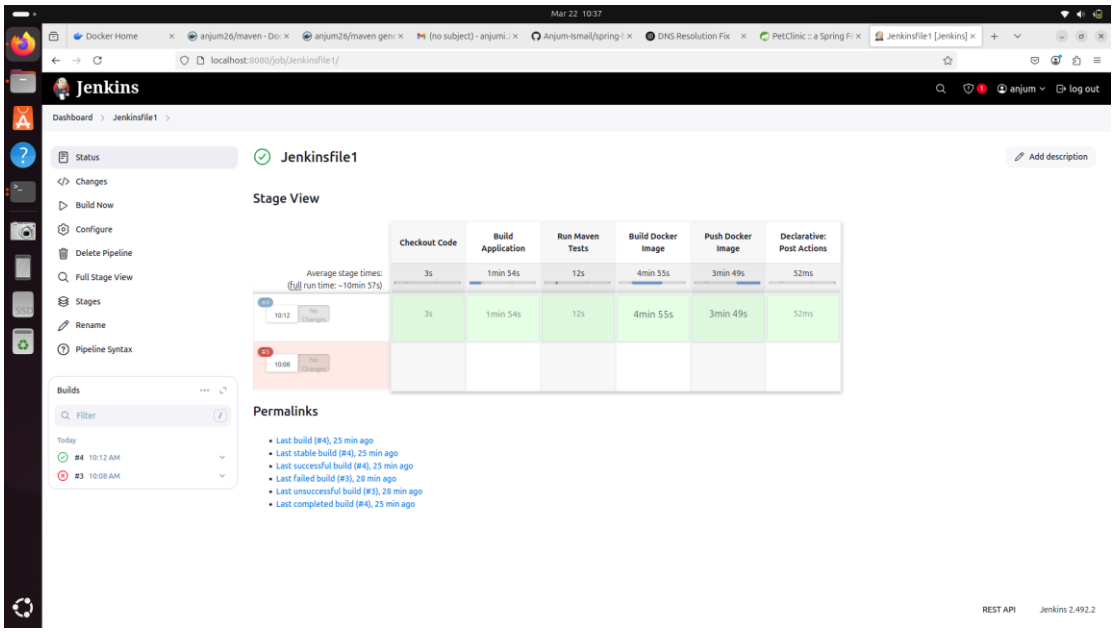
THEN USE THE BELOW PIPELINESCRIPT ACCORDING TO YOUR OWN CREDENTIALS:-

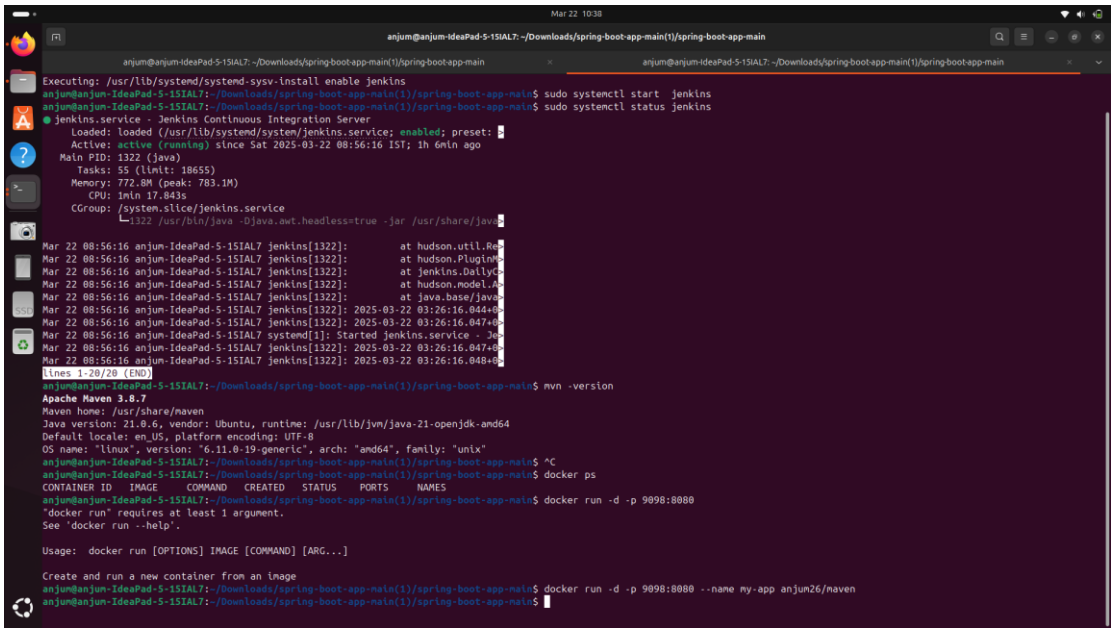
```
pipeline {
    agent any

    environment {
        DOCKER_IMAGE = "anjum26/maven"
        DOCKER_TAG = "latest"
        DOCKER_CREDENTIALS_ID = "docker"
        GITHUB_CREDENTIALS_ID = "github_seccred"
        KUBECONFIG = "/var/lib/jenkins/.kube/config"
        MAVEN_HOME = "/usr/share/maven"
    }

    stages {
        stage('Checkout Code') {
            steps {
                script {
                    echo " Checking out code from GitHub..."
                    git credentialsId: GITHUB_CREDENTIALS_ID, url: 'https://github.com/Anjum-Ismail/spring-boot-app.git', branch:
'main'
                }
            }
        }

        stage('Build Application') {
            steps {
                script {
                    echo " Building application..."
                    sh "${MAVEN_HOME}/bin/mvn clean package -DskipTests"
                }
            }
        }

        stage('Run Maven Tests') {
            steps {
                script {
                    echo " Running tests..."
                    catchError(buildResult: 'SUCCESS', stageResult: 'FAILURE') {
                        sh "${MAVEN_HOME}/bin/mvn test"
```

```
                }
            }
        }
    }

    stage('Build Docker Image') {
        steps {
            script {
                echo " Building Docker image..."
                sh "docker build -t ${DOCKER_IMAGE}:${DOCKER_TAG} ."
            }
        }
    }

    stage('Push Docker Image') {
        steps {
            script {
                echo " Pushing Docker image to registry..."
            }
            withDockerRegistry([credentialsId: DOCKER_CREDENTIALS_ID, url: '']) {
                sh "docker push ${DOCKER_IMAGE}:${DOCKER_TAG}"
            }
        }
    }

    // Uncomment this stage when Kubernetes deployment is ready
    // stage('Deploy to Kubernetes') {
    //     steps {
    //         script {
    //             echo " Deploying to Kubernetes..."
    //             sh '''
    //                 chmod +x scripts/deploy.sh
    //                 ./scripts/deploy.sh
    //             '''
    //         }
    //     }
    // }
}

post {
    success {
        echo " Deployment Successful!"
    }
    failure {
        echo " Deployment Failed!"
    }
}
}
```

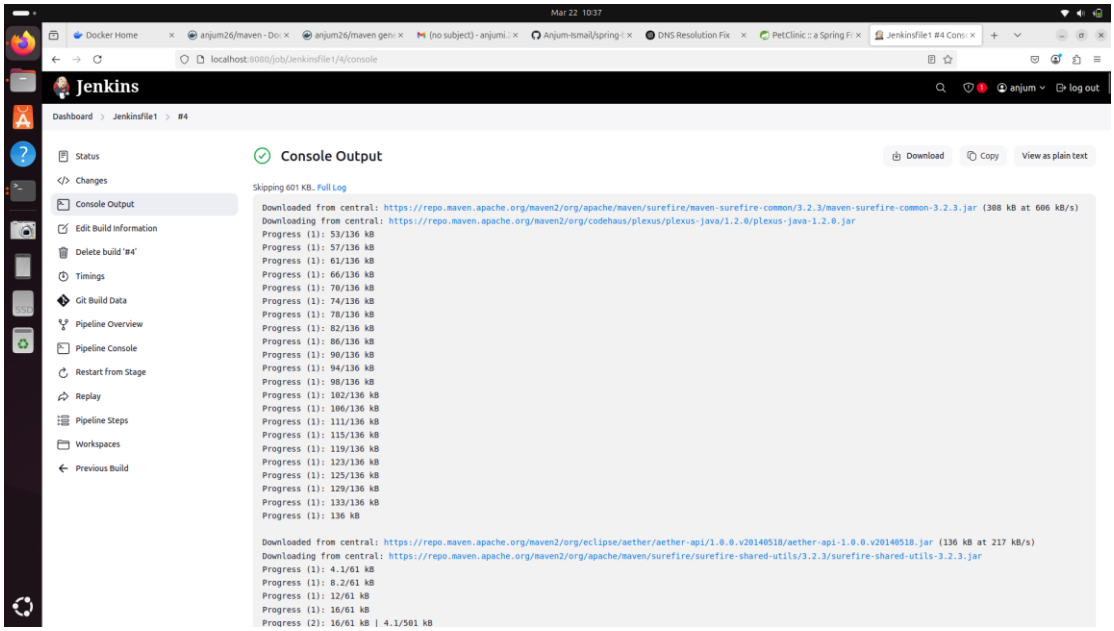
BUILD THE PIPELINE:-

In Tools:-
Use Maven 3.9.6
and Maven Home as /opt/home





BUILD SUCCESS OUTPUT:-



FINAL OUTPUT IN localhost:9098