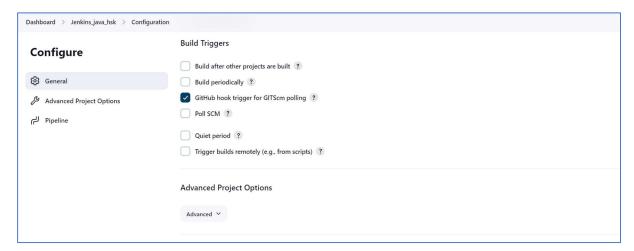
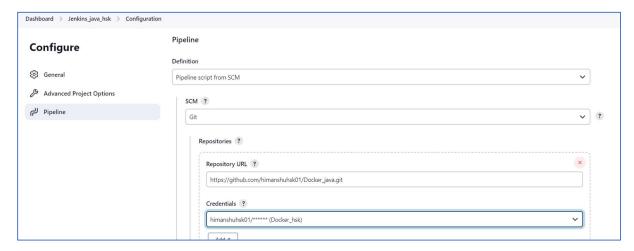
ASSIGNMENT 10

IT_41_Himanshu Shukla

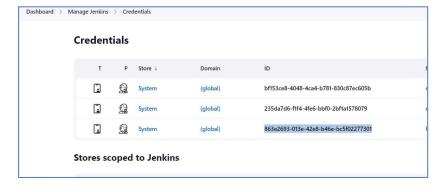
Create a Jenkins pipeline to build and push Docker Image. Dockerfile, Jenkinsfile and the application(for which image will be built) shall be stored in a GitHub Repository.

1.create a Jenkins file and do as follow





Here in credential put your docker username and docker password and then go to DashBoard>Manage Jenkins>Credential and copy the Id



2 create Dockerfile, Jenkinsfileand Main. java in vs code

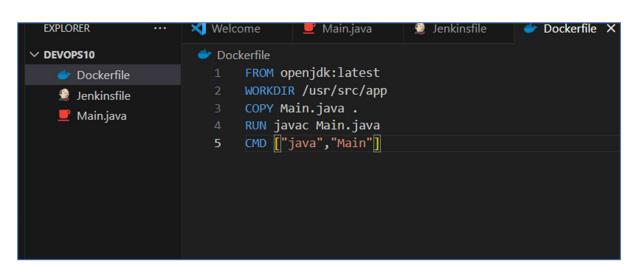
Now paste the Id in line 6 in Docker hub credentials and in image name put your username/filename

```
⋈ Welcome
                                                                              Jenkinsfile X Dockerfile
∨ DEVOPS10
    Dockerfile
                                          pipeline {
                                                agent any
     Main.java
                                                environment {
                                                      DOCKER_HUB_CREDENTIALS = '863e2693-013e-42e8-b46e-bc5f02277301'
DOCKER_IMAGE_NAME = 'himanshuhsk01/jenkin_java_app'
DOCKER_IMAGE_TAG = "${DOCKER_IMAGE_NAME}:${env.BUILD_NUMBER}"
                                                stages {
                                                      stage('Checkout') {
steps {
                                                                     Checkout the source code from the Git repository
                                                      stage('Build and Push Docker Image') {
                                                                 script {
    // Build the Docker image
    def dockerImage = docker.build("${DOCKER_IMAGE_TAG}")
                                                                       docker.withRegistry('https://registry.hub.docker.com', "${DOCKER_HUB_CREDENTIALS}") {
    // Push the Docker image to Docker Hub
                                                                             // Push the Docker
dockerImage.push()
                                                      success {
    echo "Docker image built and pushed successfully"
```

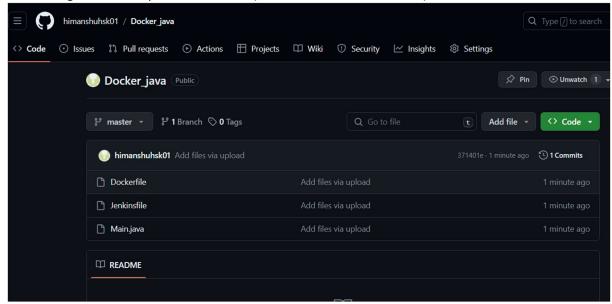
```
pipeline {
    agent any

environment {
    // Define environment variables if needed
    DOCKER_HUB_CREDENTIALS = '863e2693-013e-42e8-b46e-bc5f02277301'
    DOCKER_IMAGE_NAME = 'himanshuhsk02/jenkin_java_app'
```

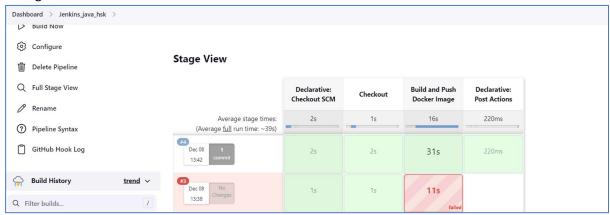
```
DOCKER_IMAGE_TAG = "${DOCKER_IMAGE_NAME}:${env.BUILD_NUMBER}"
  }
  stages {
    stage('Checkout') {
      steps {
        // Checkout the source code from the Git repository
        checkout scm
      }
    }
    stage('Build and Push Docker Image') {
      steps {
        script {
          // Build the Docker image
          def dockerImage = docker.build("${DOCKER_IMAGE_TAG}")
          // Authenticate with Docker Hub
          docker.withRegistry('https://registry.hub.docker.com', "${DOCKER_HUB_CREDENTIALS}") {
            // Push the Docker image to Docker Hub
            dockerImage.push()
          }
        }
      }
    }
  }
  post {
    success {
      echo "Docker image built and pushed successfully"
    }
  }
}
```



Push into github which you have created (here branch name is master)



Now go to localhost and build it



Here the it is pushed successfully

