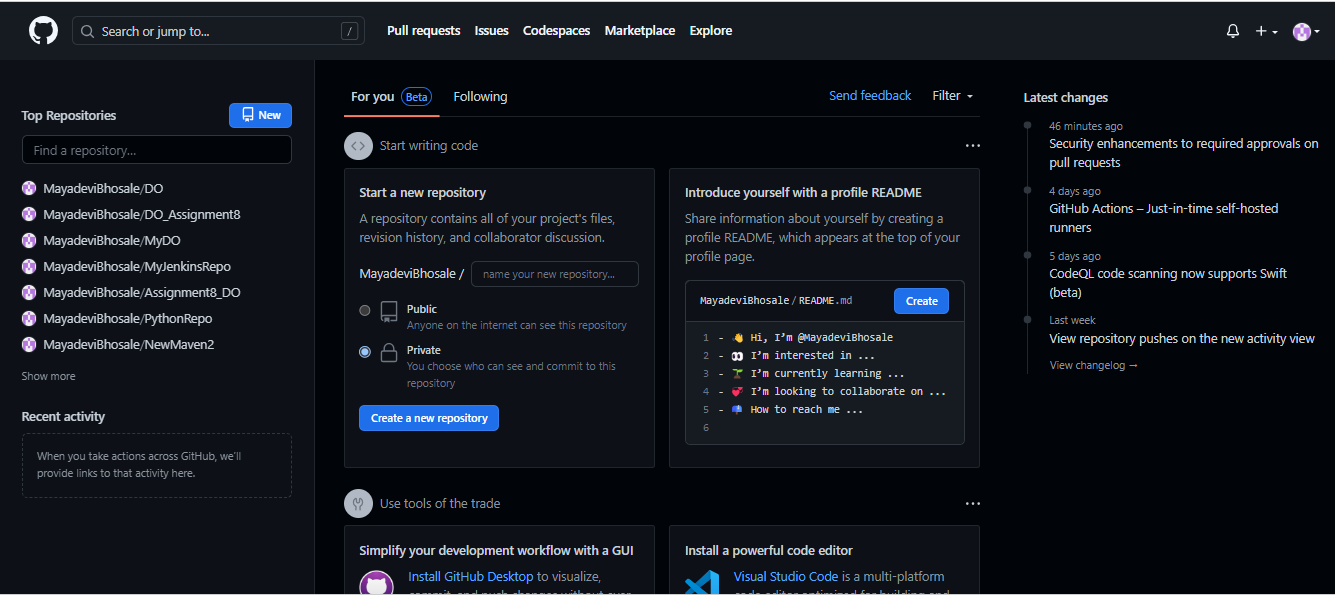
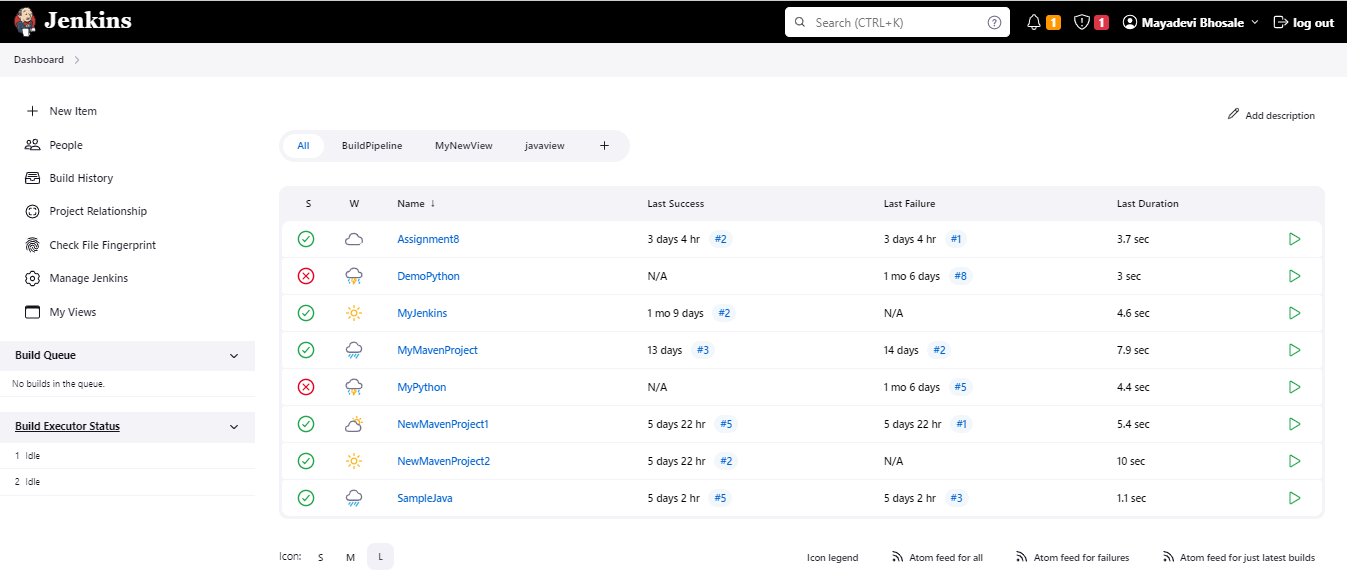
# **DevOps Assignment No : 10**

# **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.**

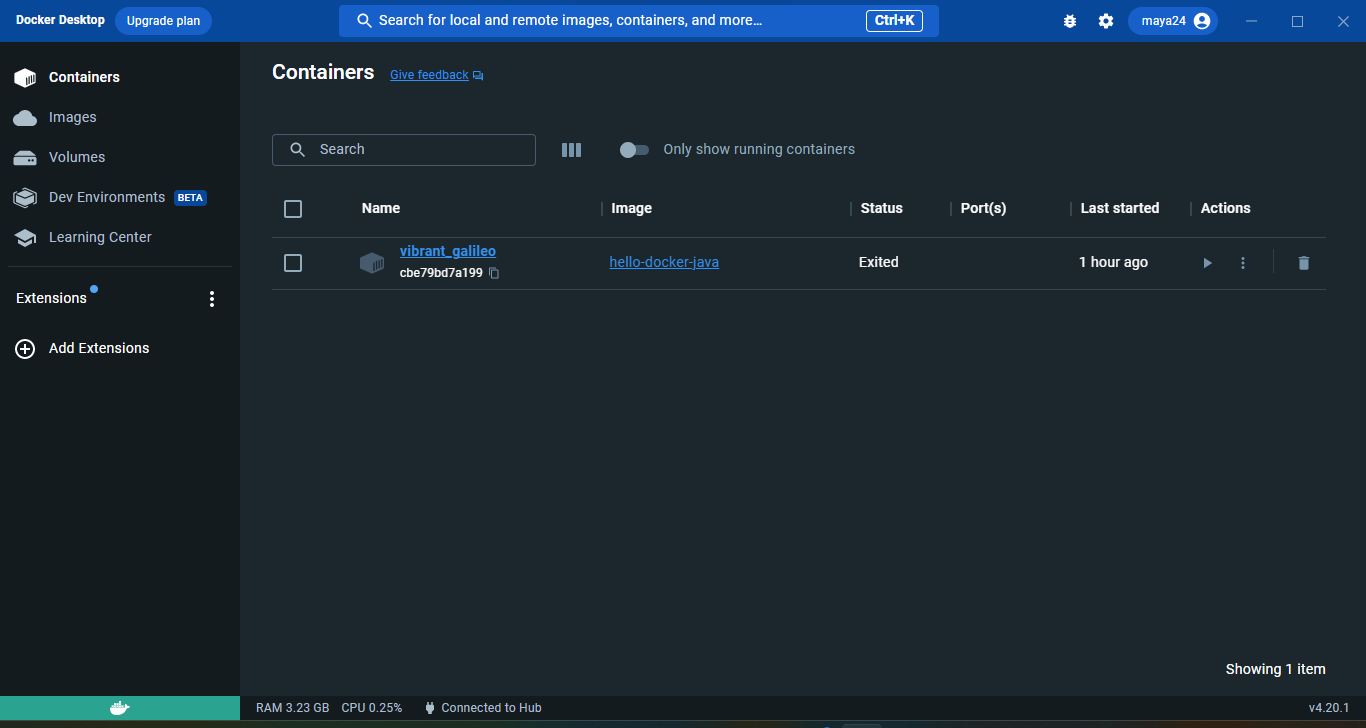
Signed to GitHub as below: -



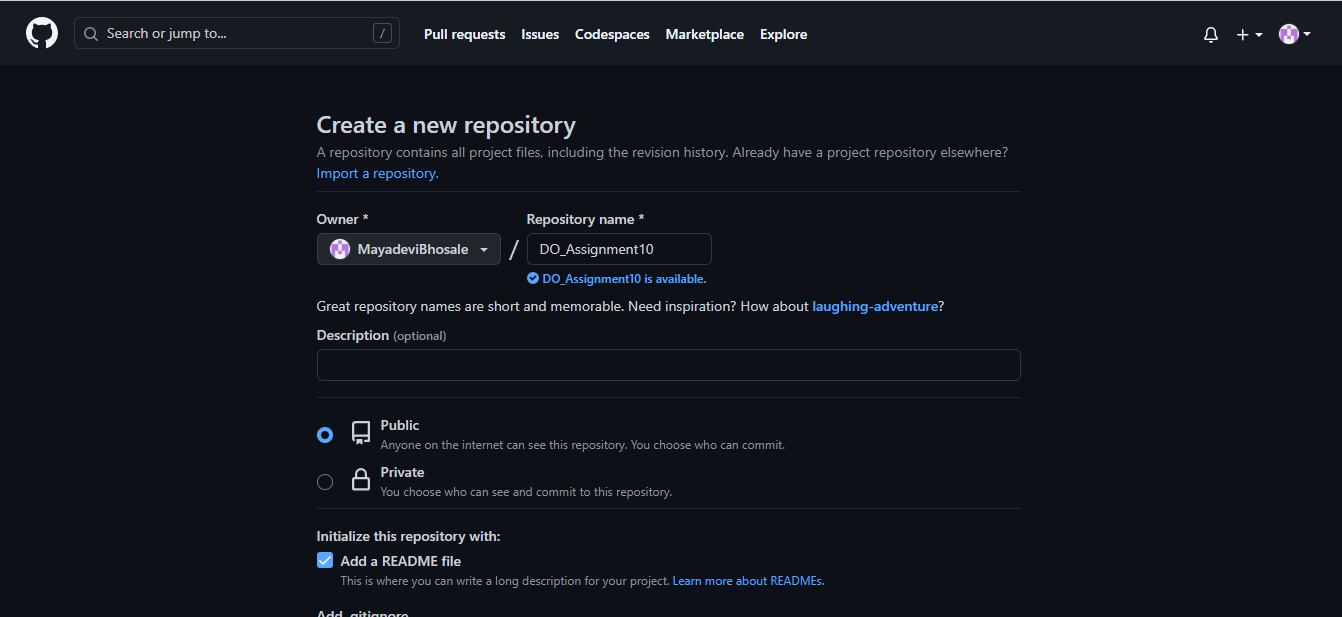
Login to Jenkins as below: -

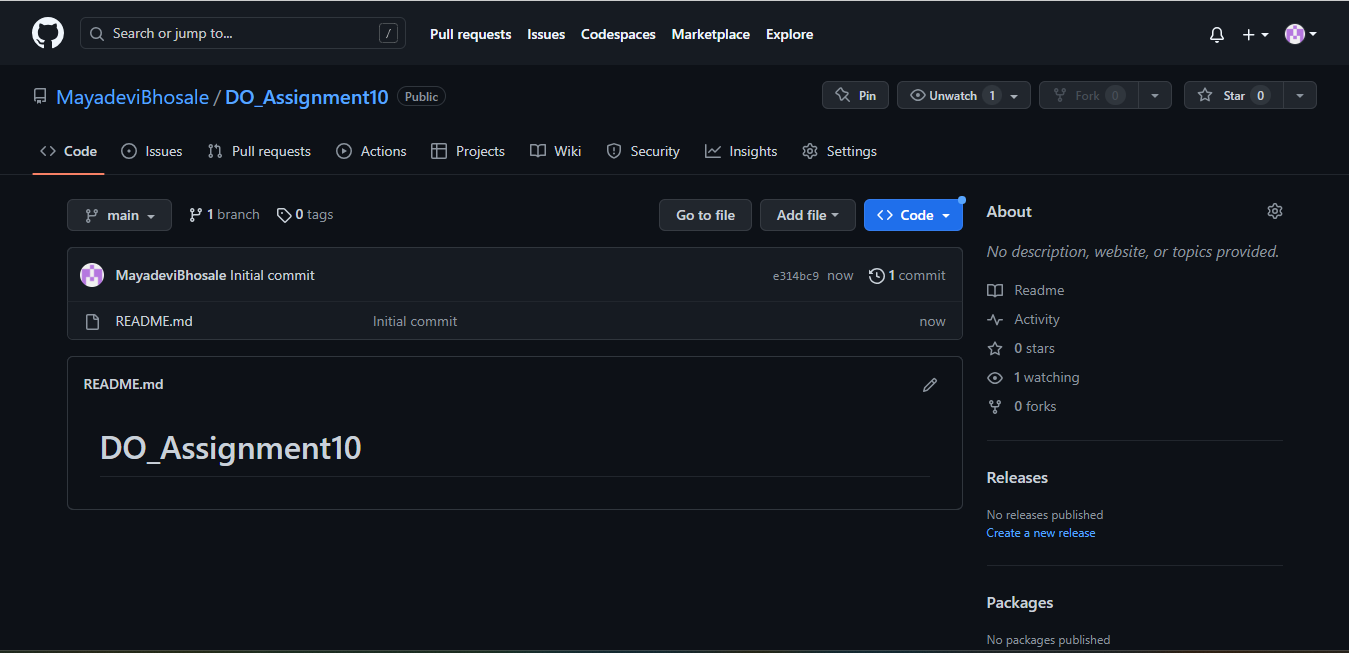


Starting the Docker as below: -

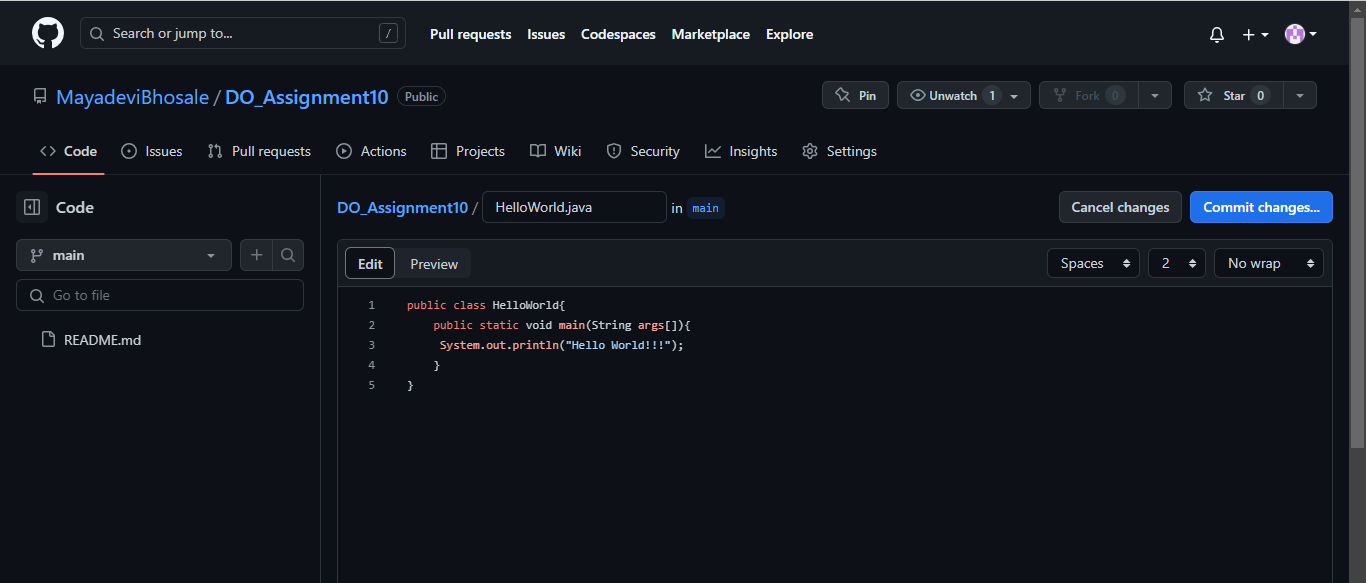


Creating a New Repository on GitHub as below: -

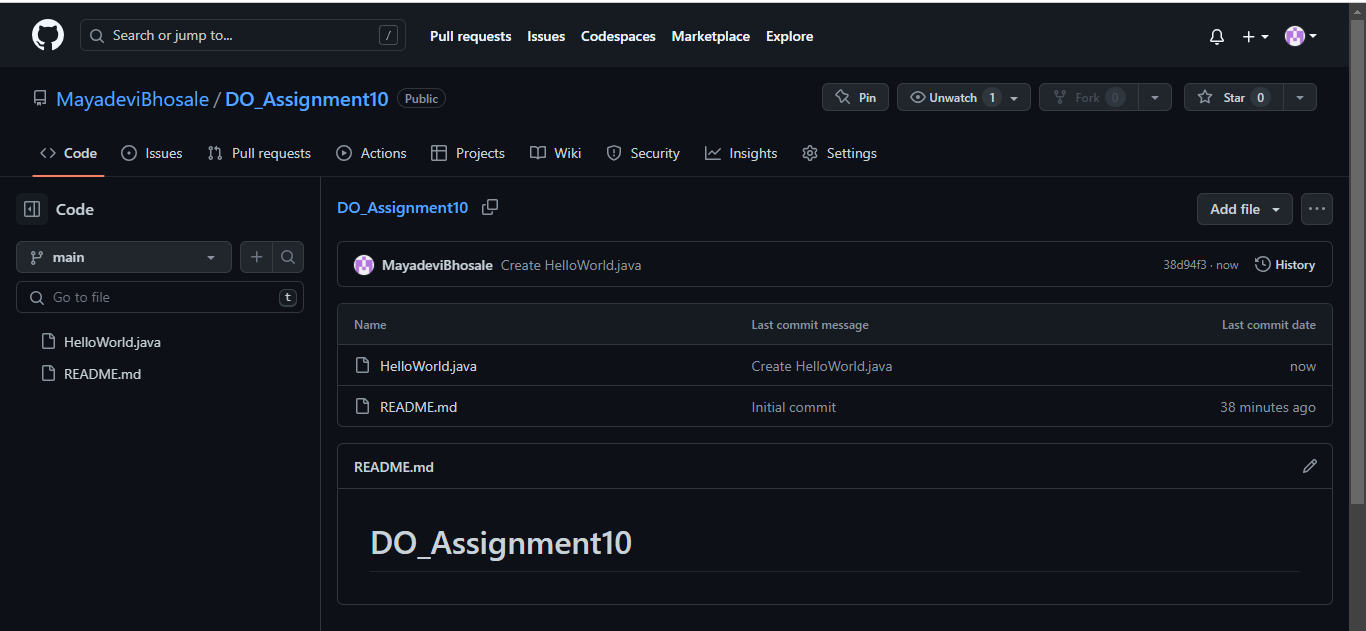




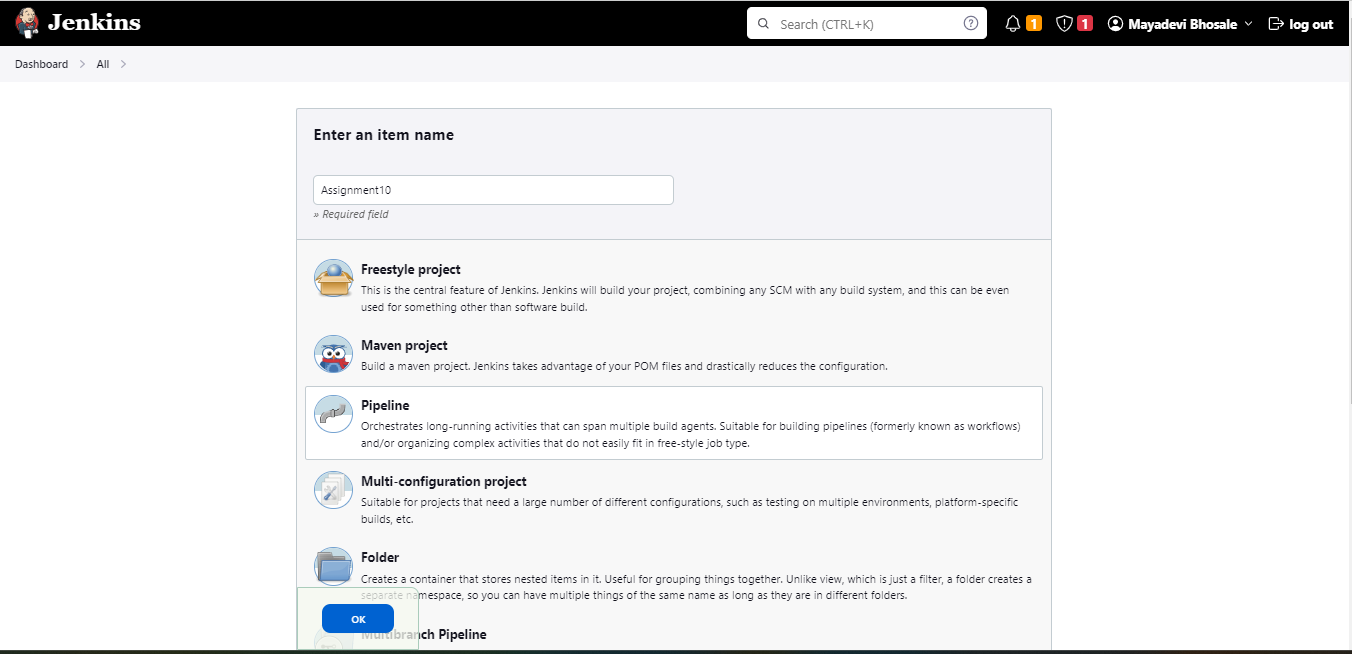
Adding “HelloWorld.java” as below on GitHub Repository as below : -



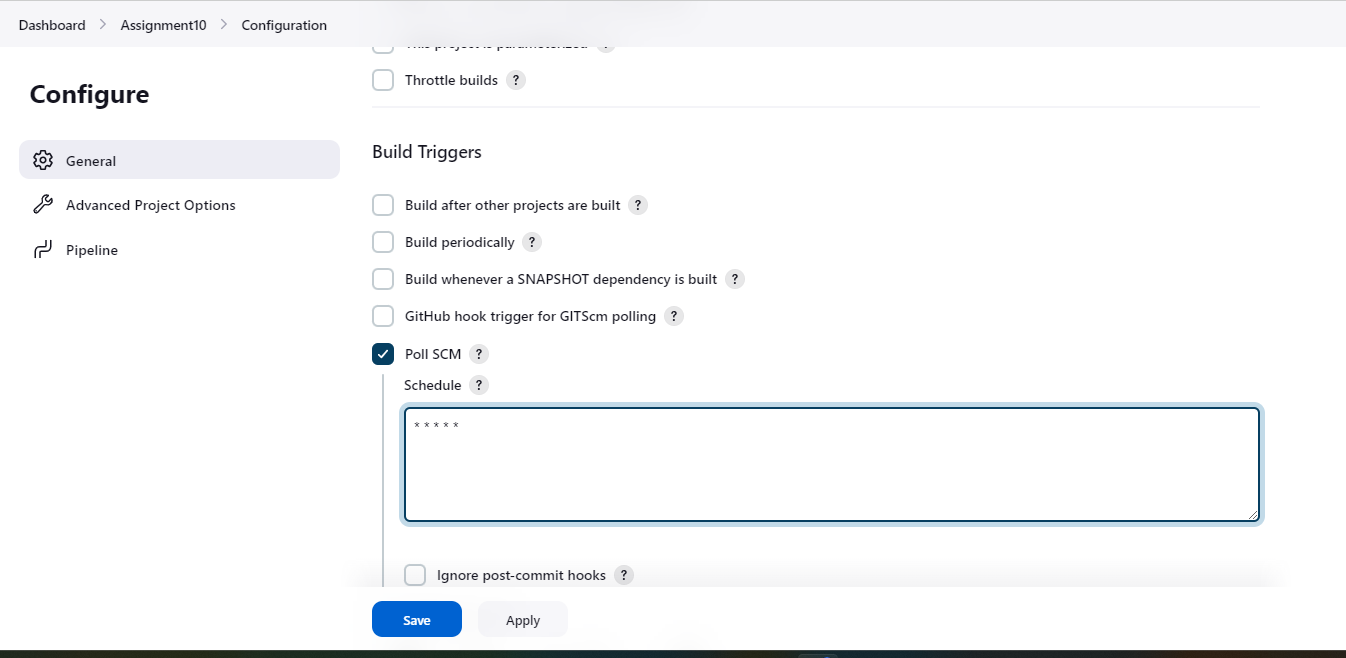
Committed file as below: -



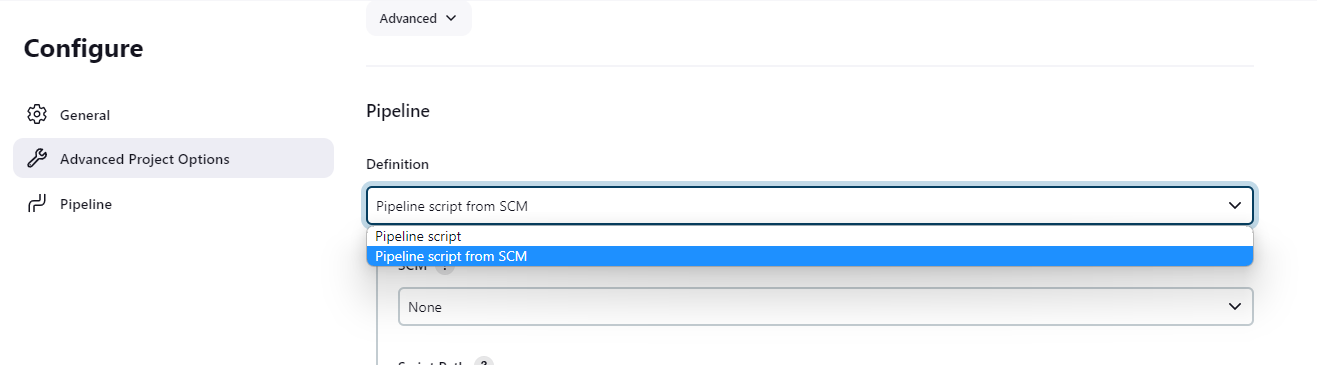
**Now we will Create a Jenkins Pipeline Job as below: -**

****

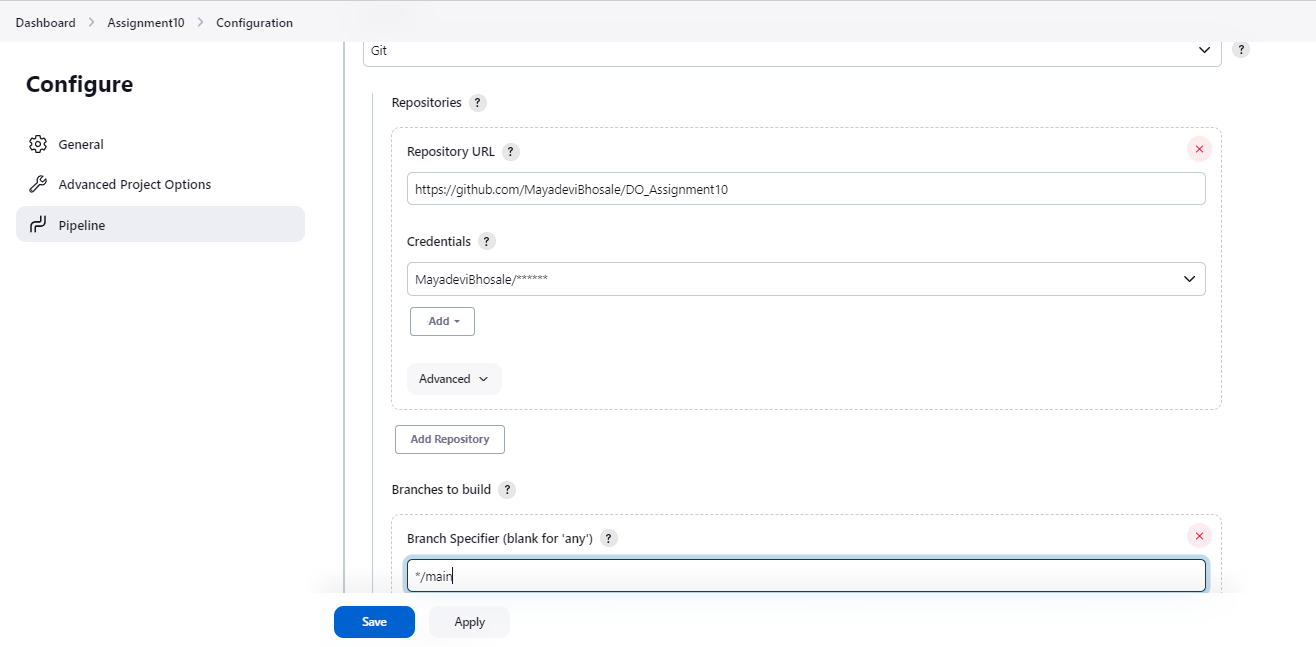
**We will select Poll SCM, and enter “\* \* \* \* \*” as below: -**

****

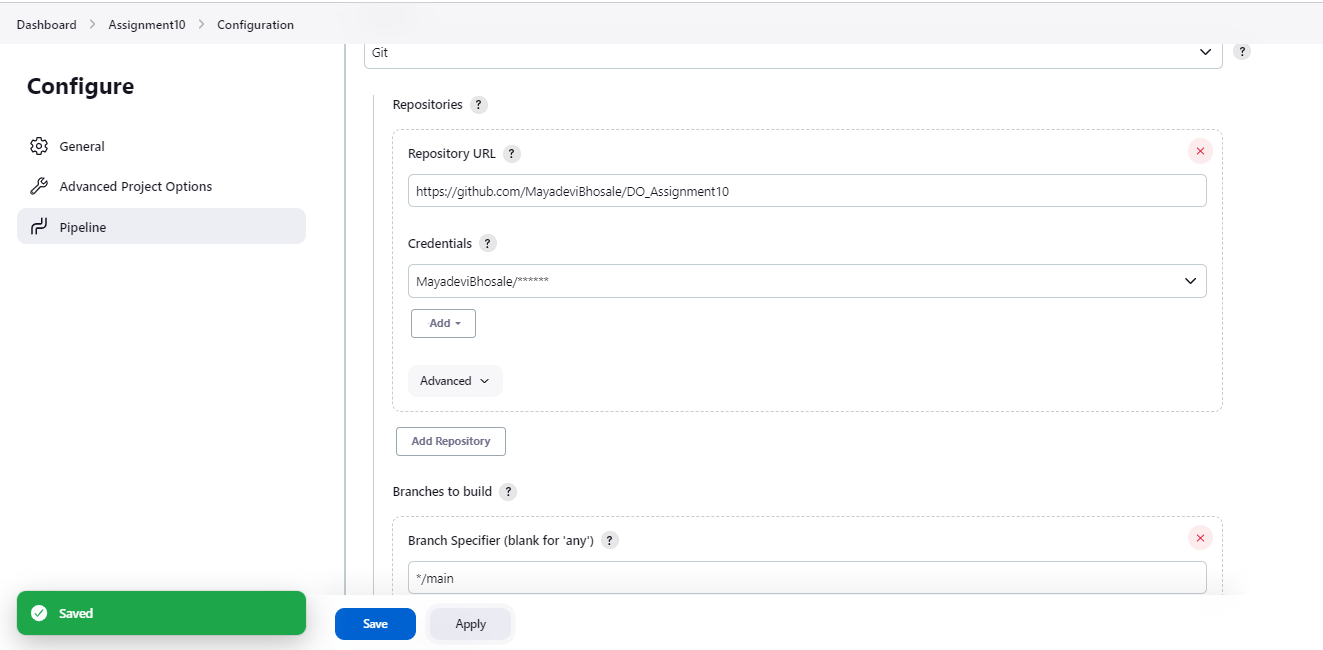
**Then we will select “Pipeline Script from SCM” from below options: -**

****

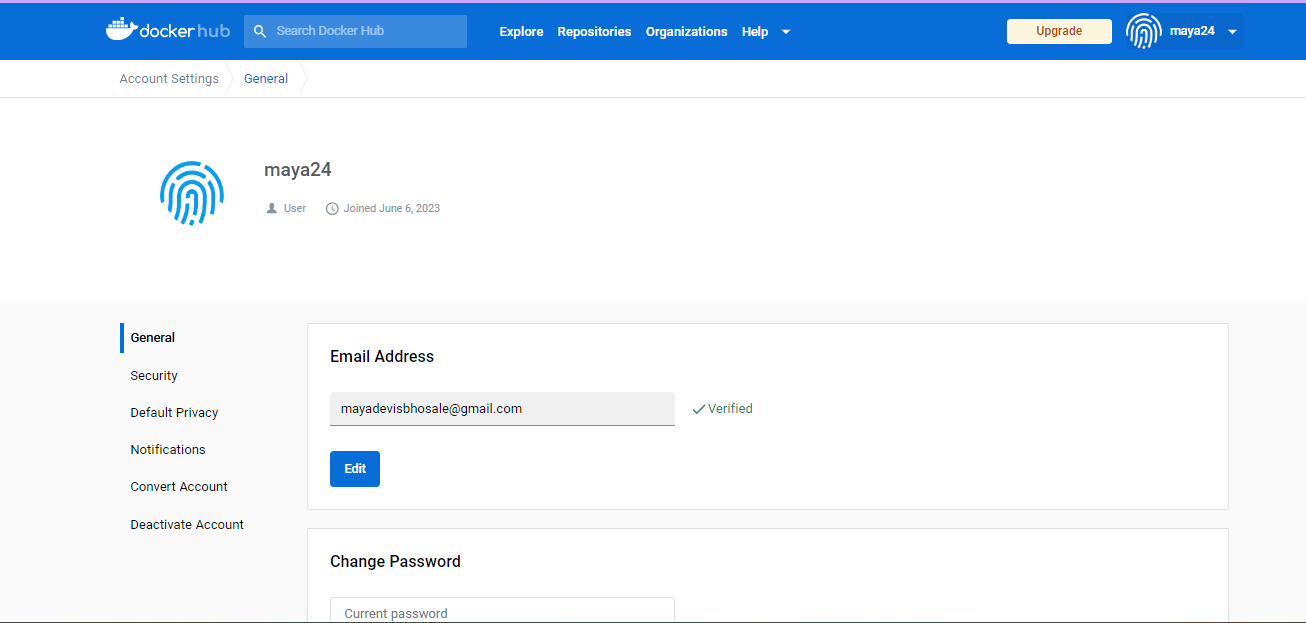
**Then we will select Git option and add Repository URL ,credentials and change branch name as “main” : -**

****

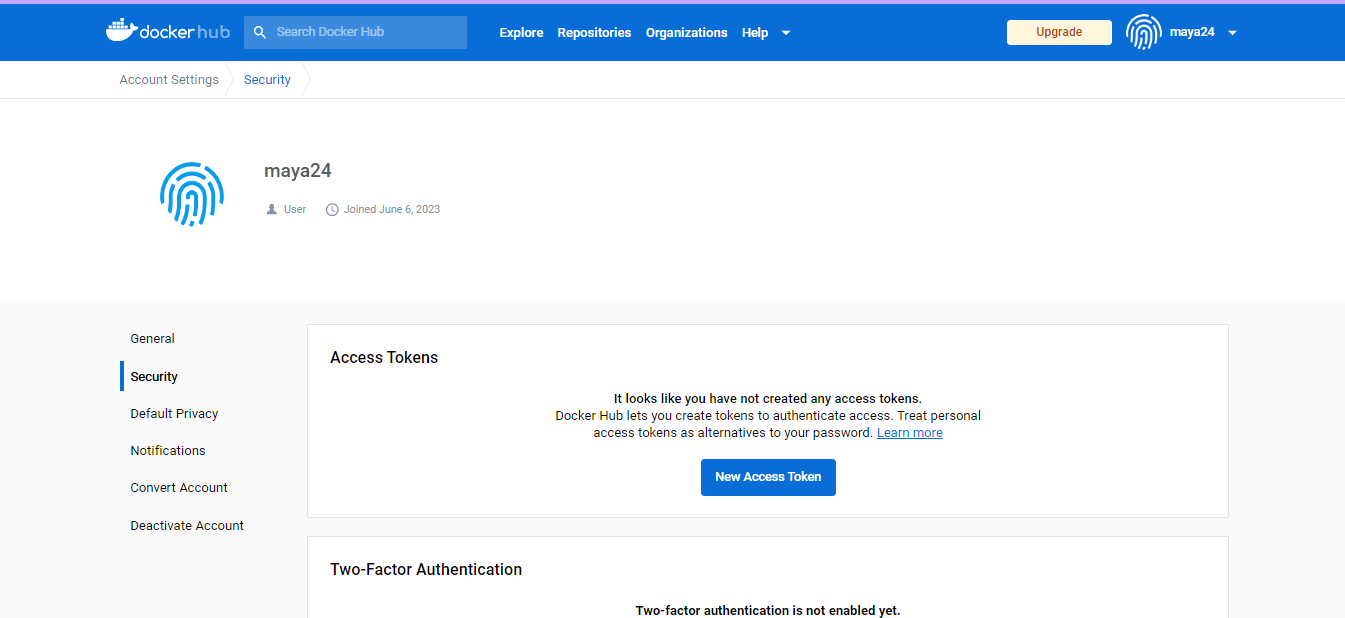
**Click on Apply and save:-**

****

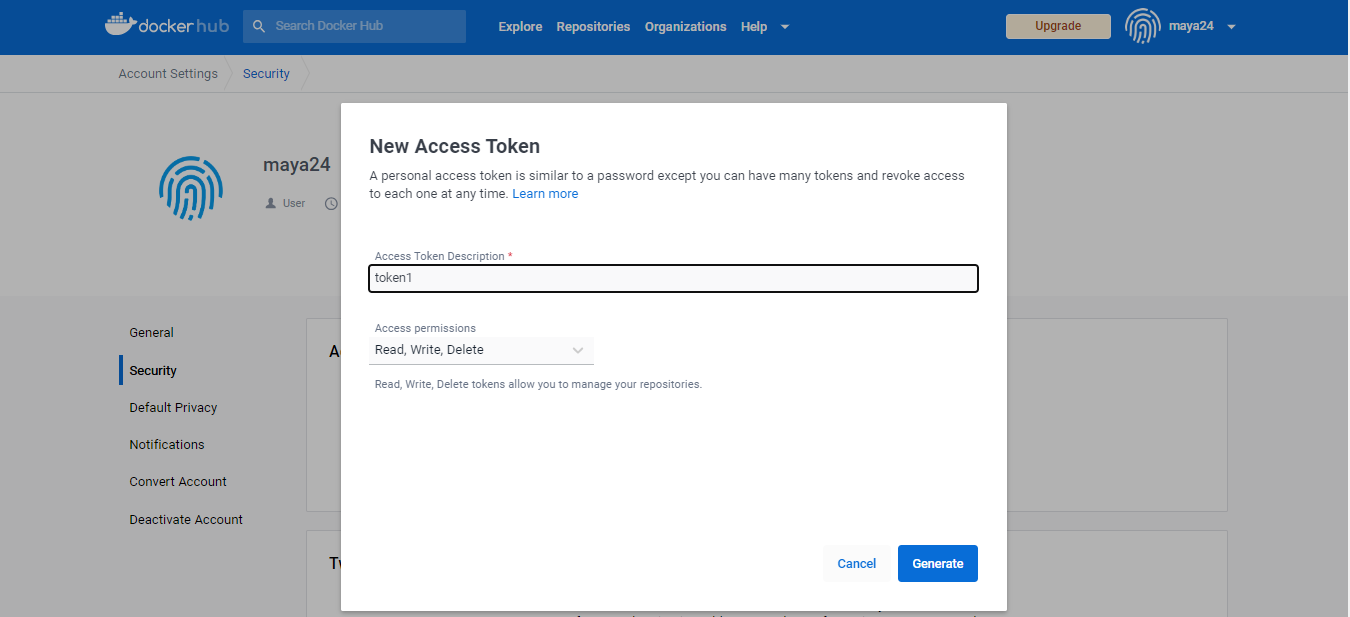
**Now we will create Personal Access Token on Docker Hub as below: -**

****

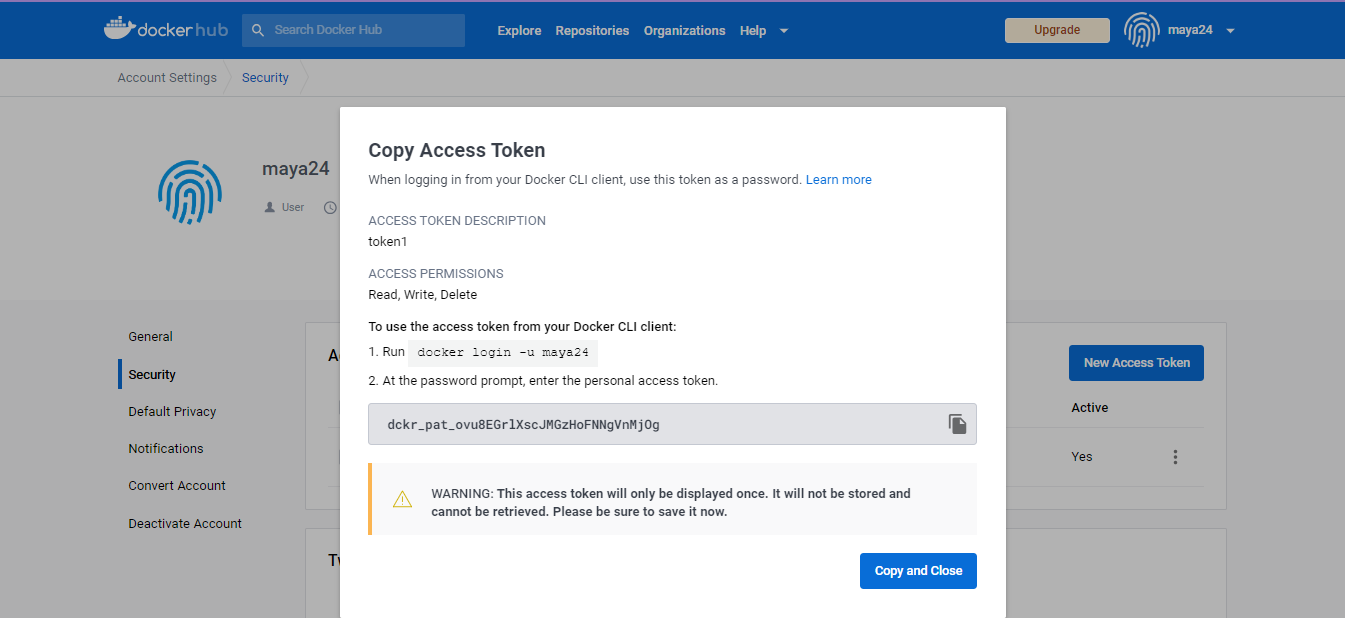
**We will click on “New Access Token” as below: -**

****

**We will give token description and click on Generate as below:-**

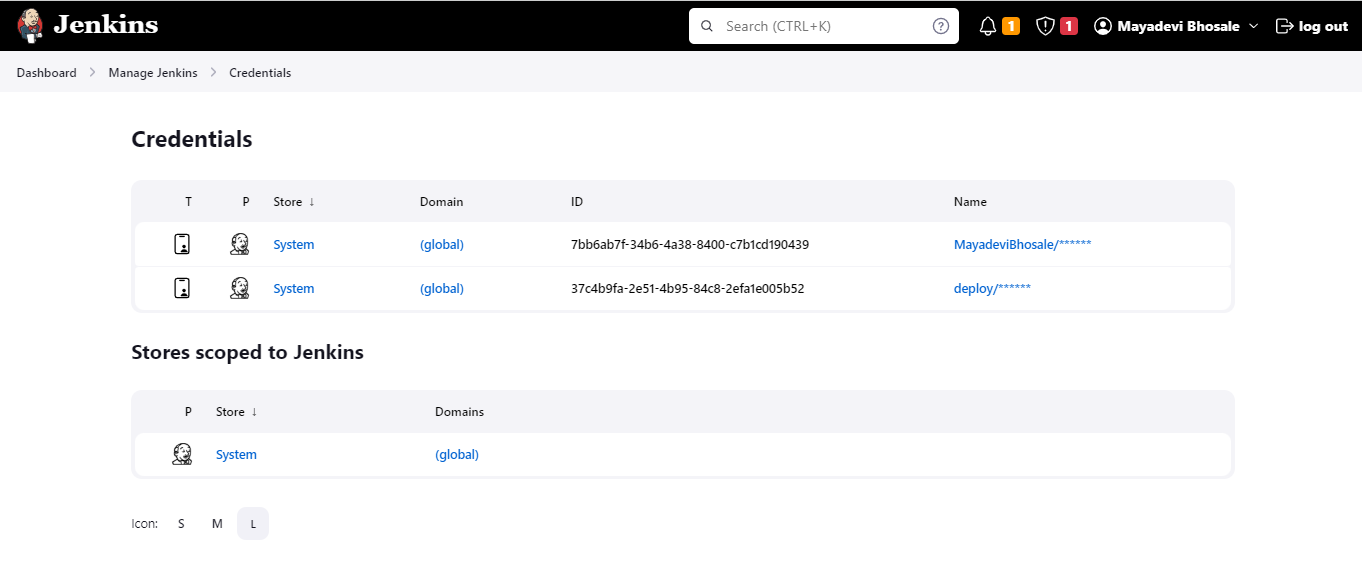
****

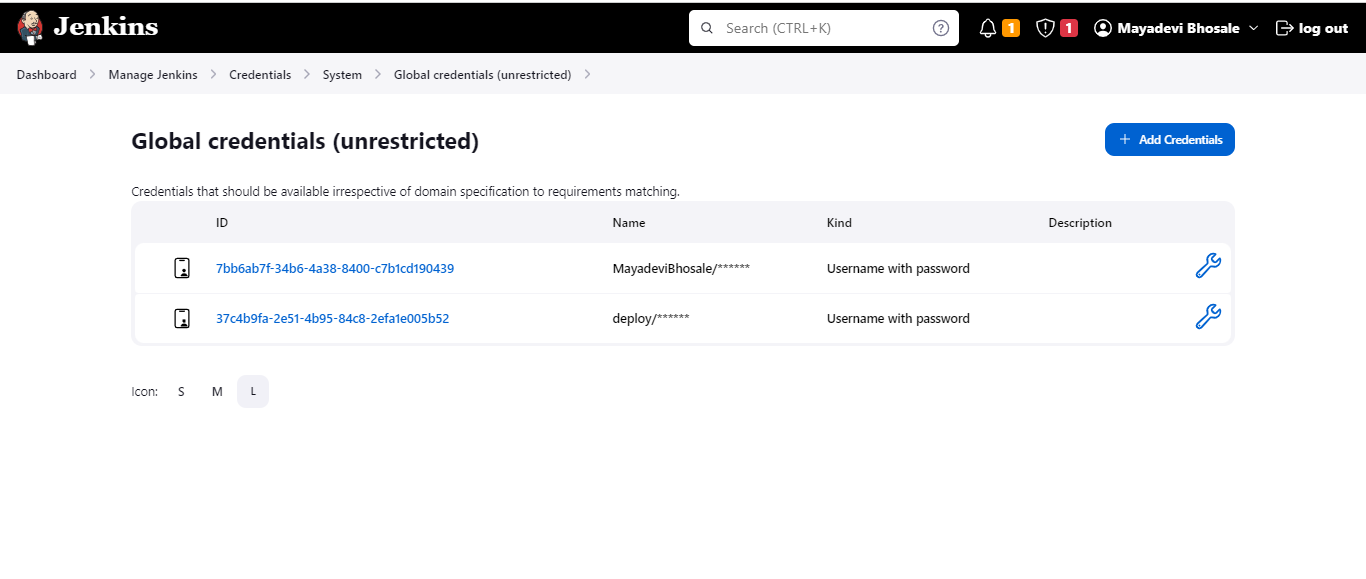
**Access Token is Generated as below: -**

****

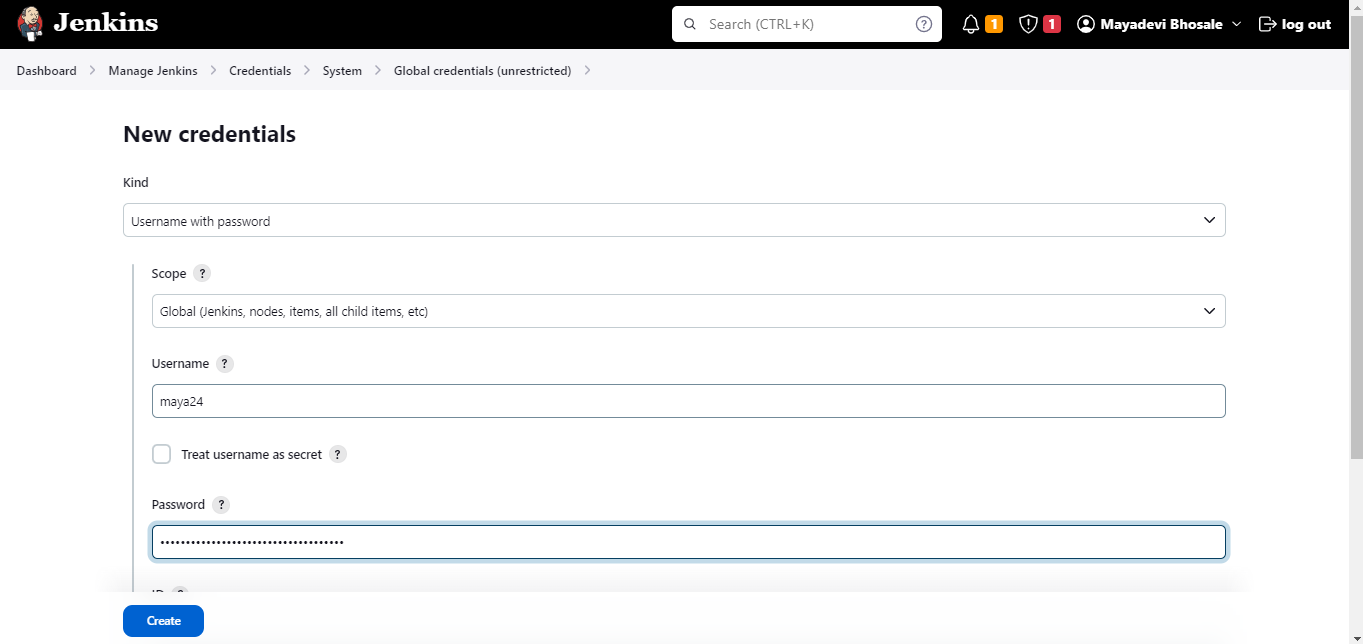
**Then click on Manage Jenkins→ Manage Credentials: -**

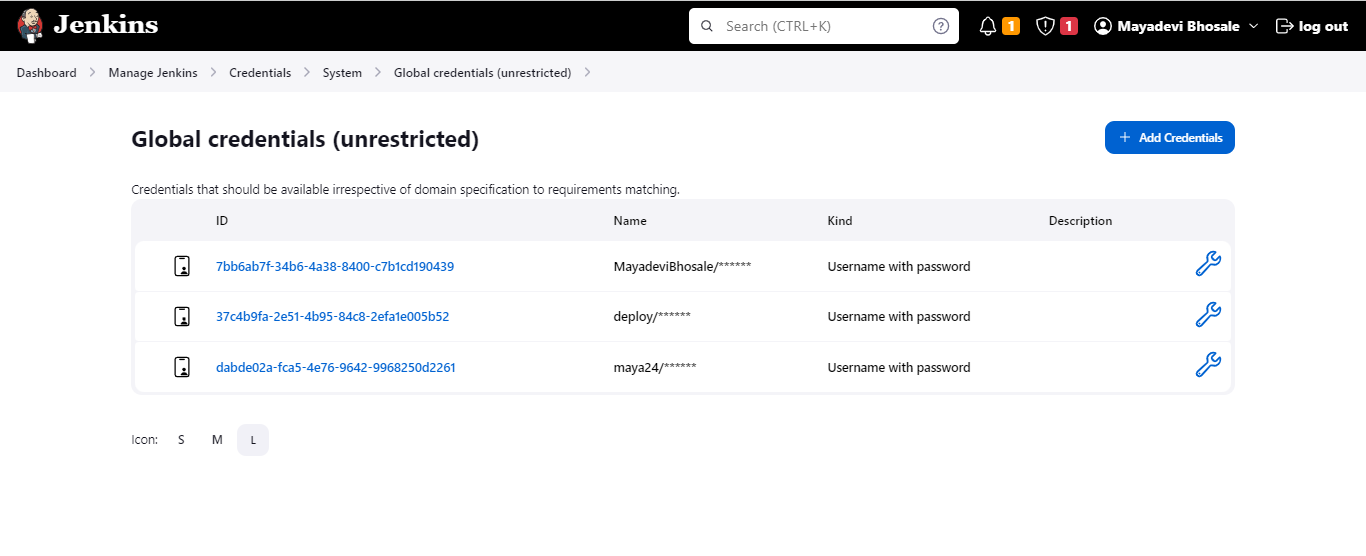
**Then click on System in Credentials as below: -**

****

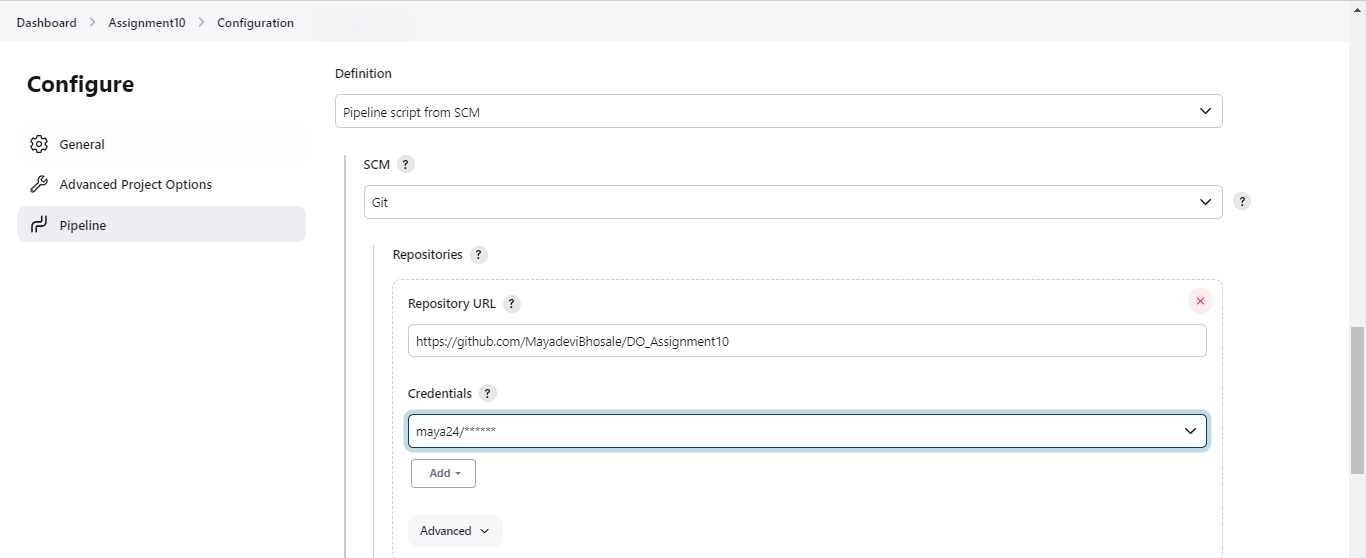
****

**Then we will enter the Username of docker Hub and Generated Access Token in Password field as below: -**

****

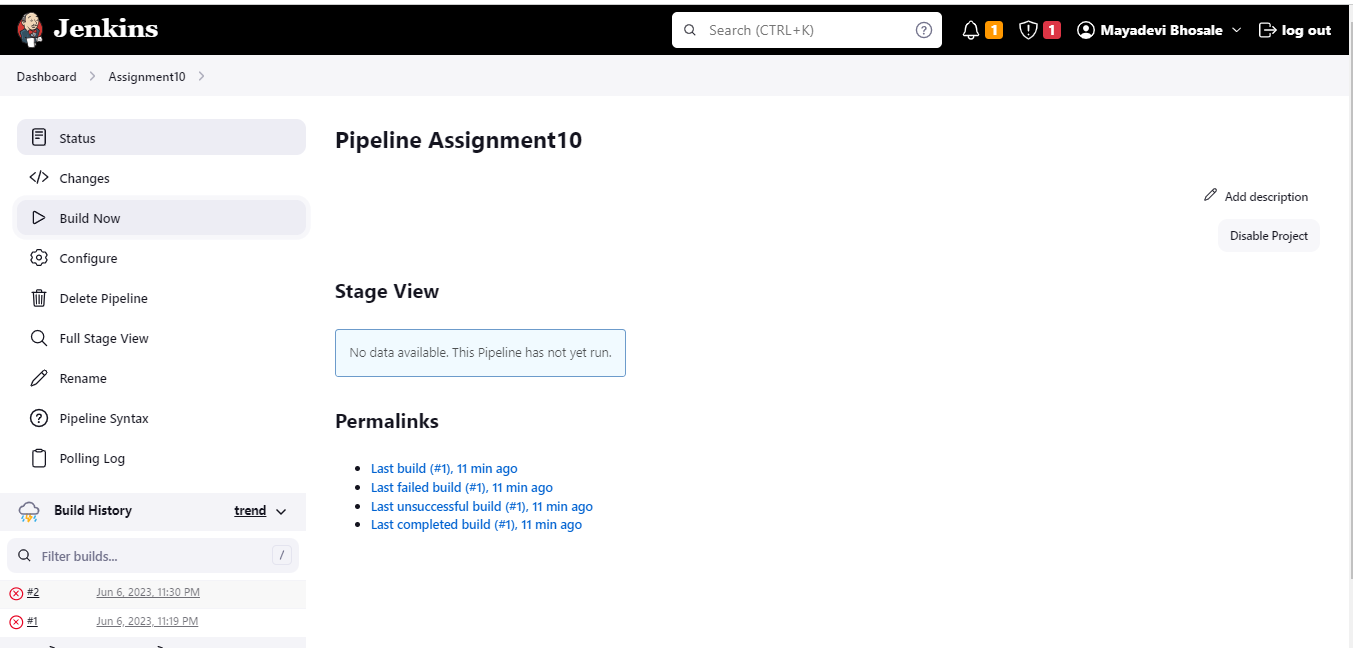
****

**Now we will configure our Docker Hub User Id in Pipeline Job:-**

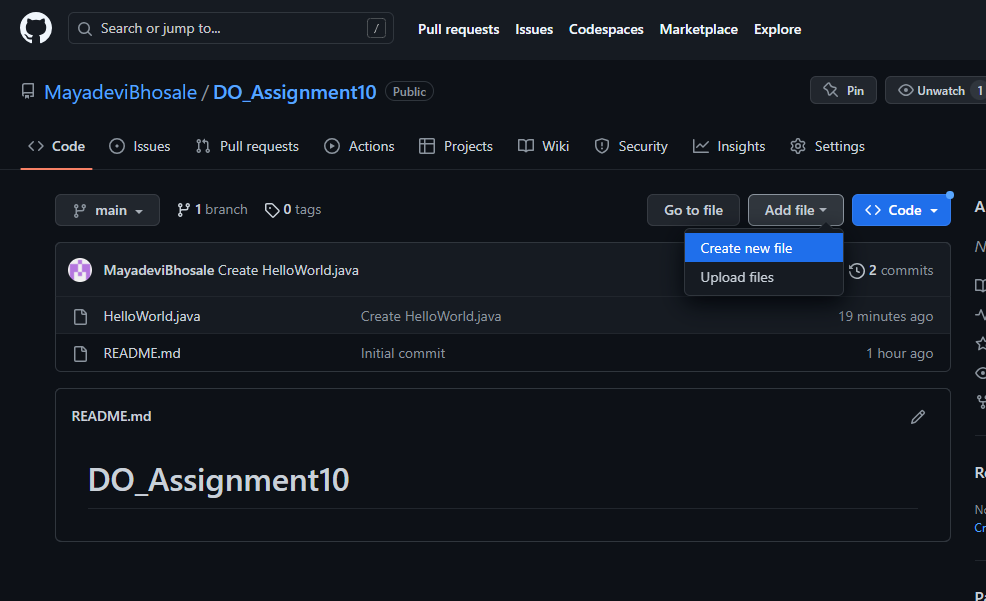
****

**click on Apply and save and then click on build now :**

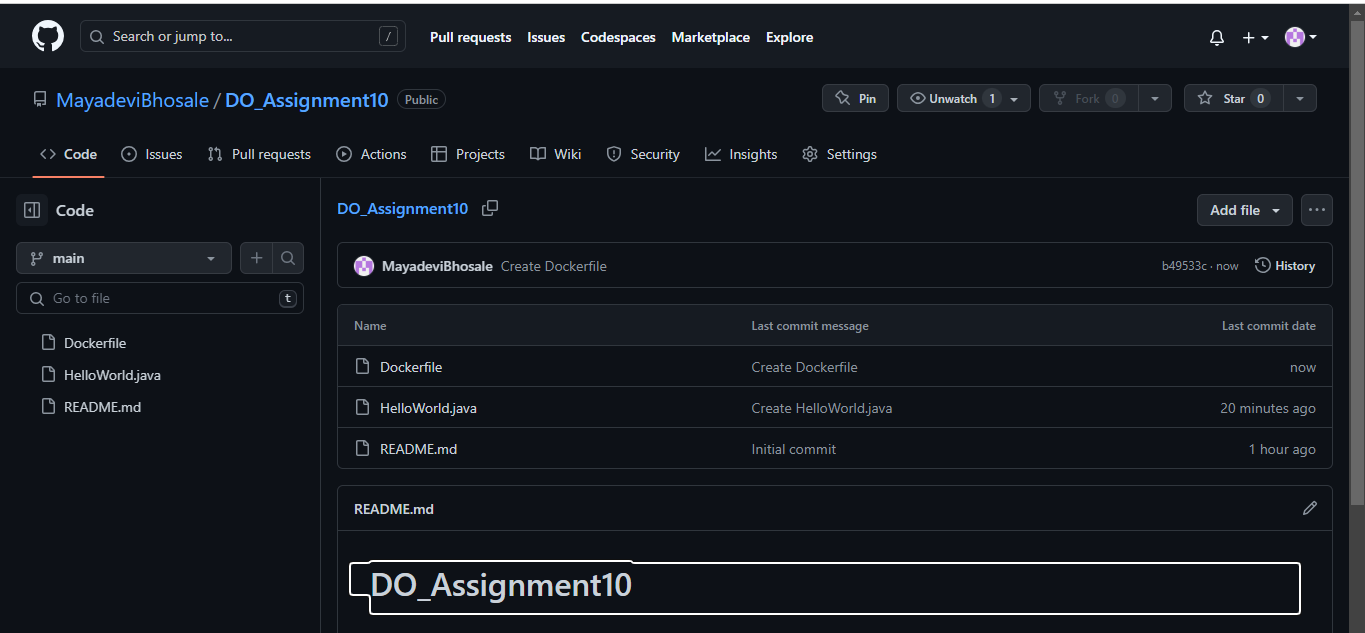
**Our First build is failed because we have not added Jenkinsfile Yet as shown below: -**

****

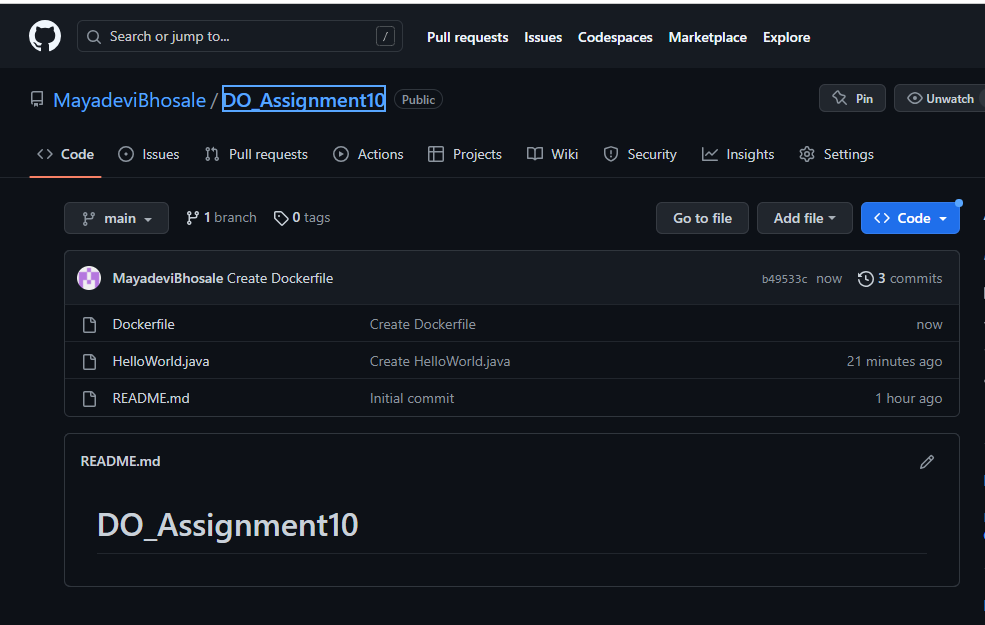
**Now on git we will add file as below: -**

****

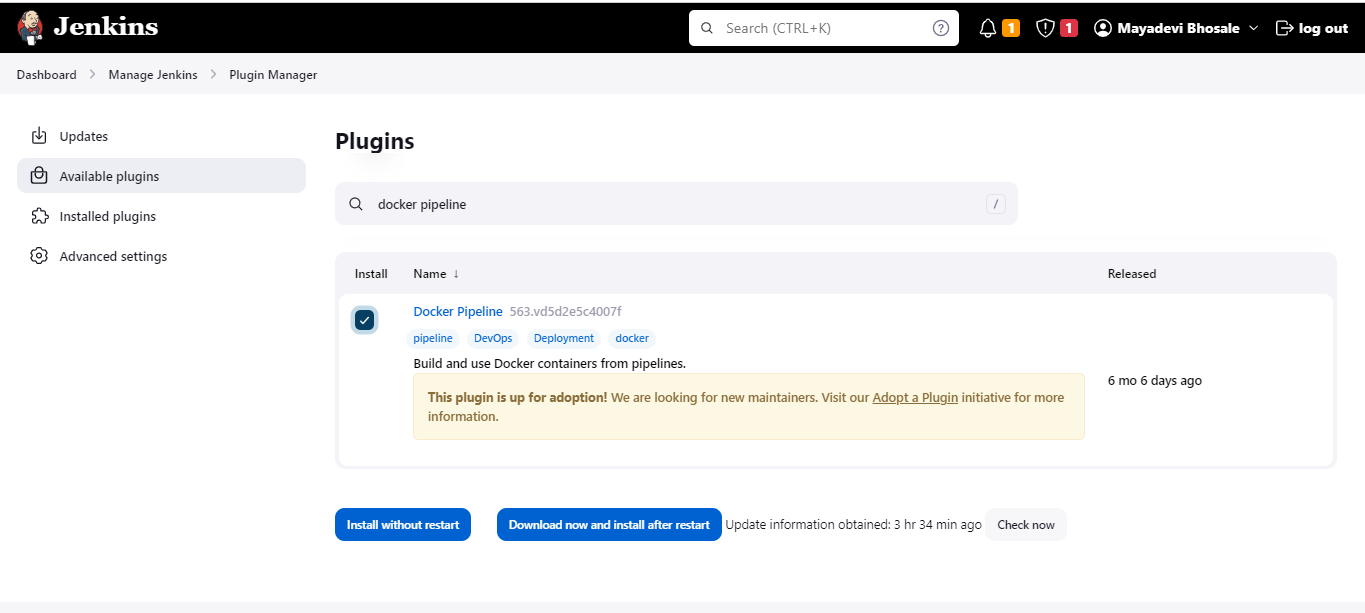
**First we need to add dockerfile to our Repository as below:-**

****

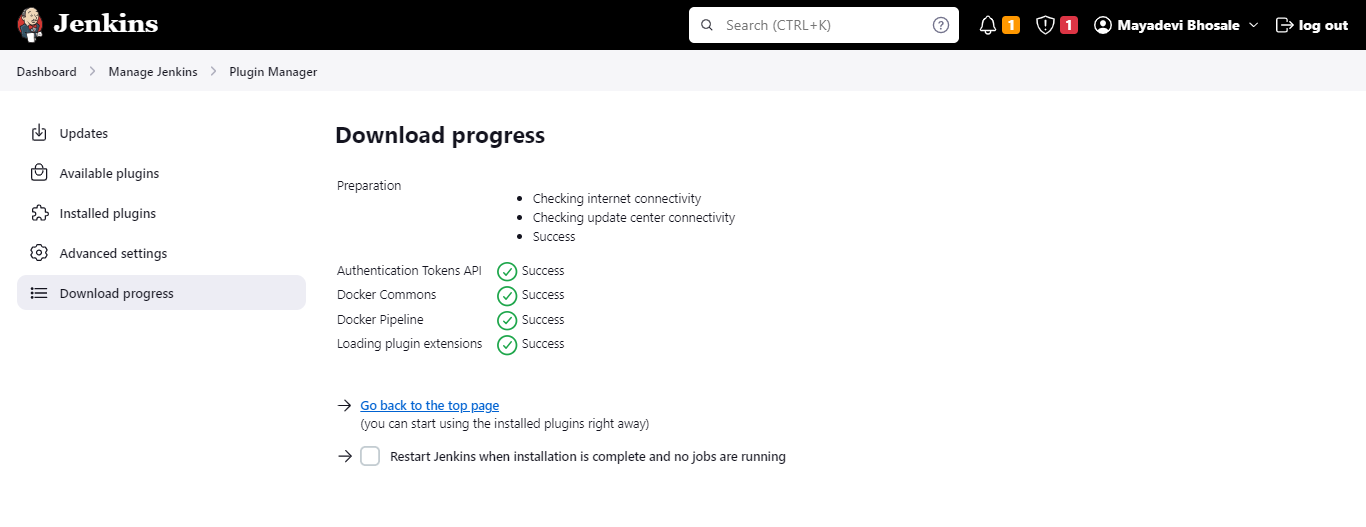
**Committed file as below:**

****

**Then we need to install few plugins as below for docker: -**

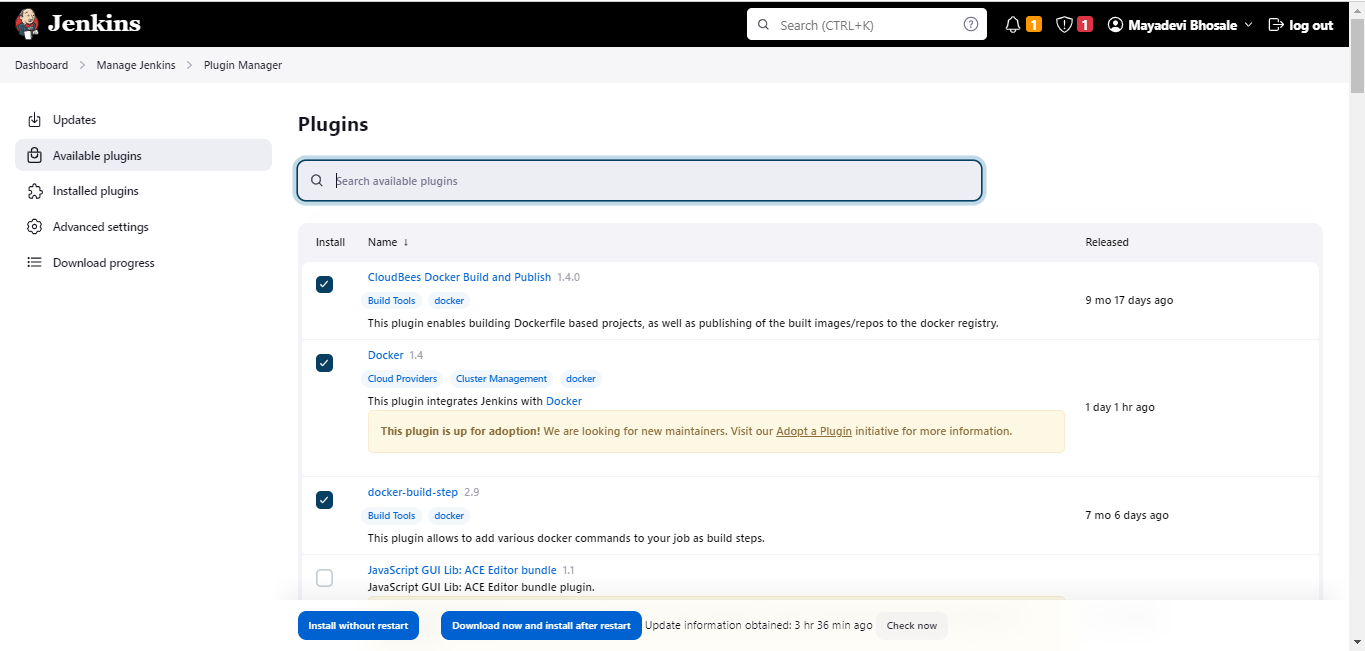
****

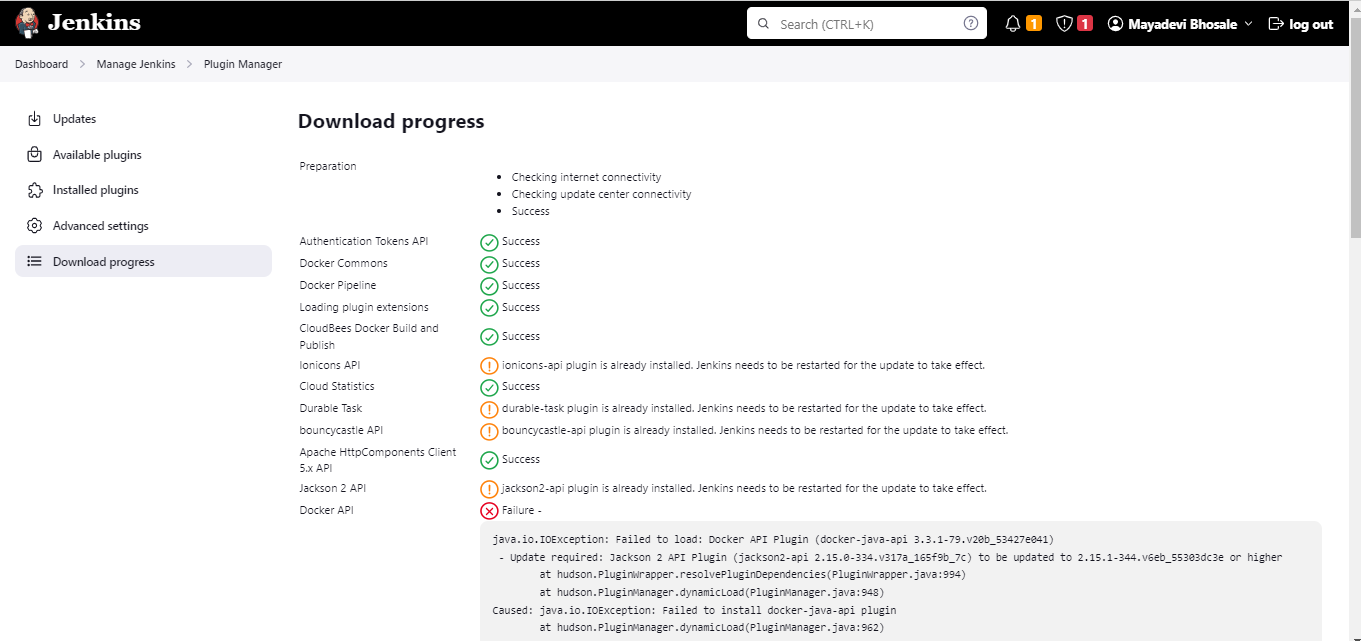
**Installation of Plugin is Successful as below:**

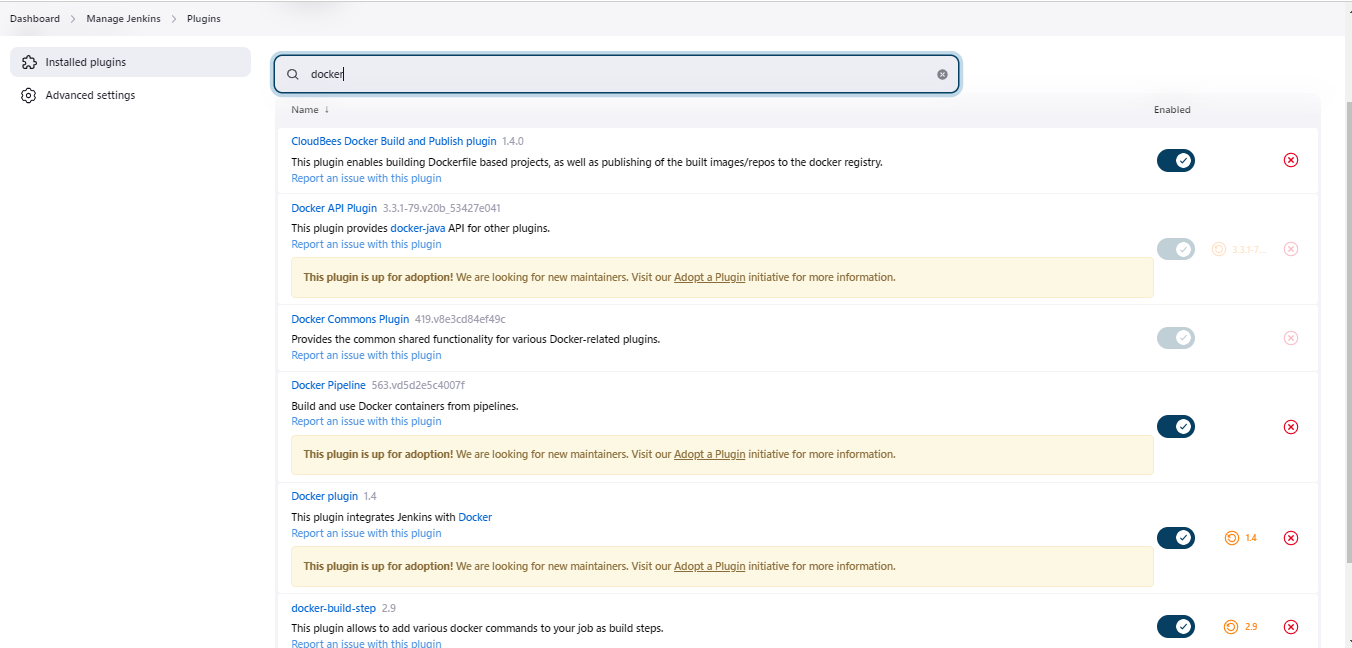
****

**Required Plugins to install are :**

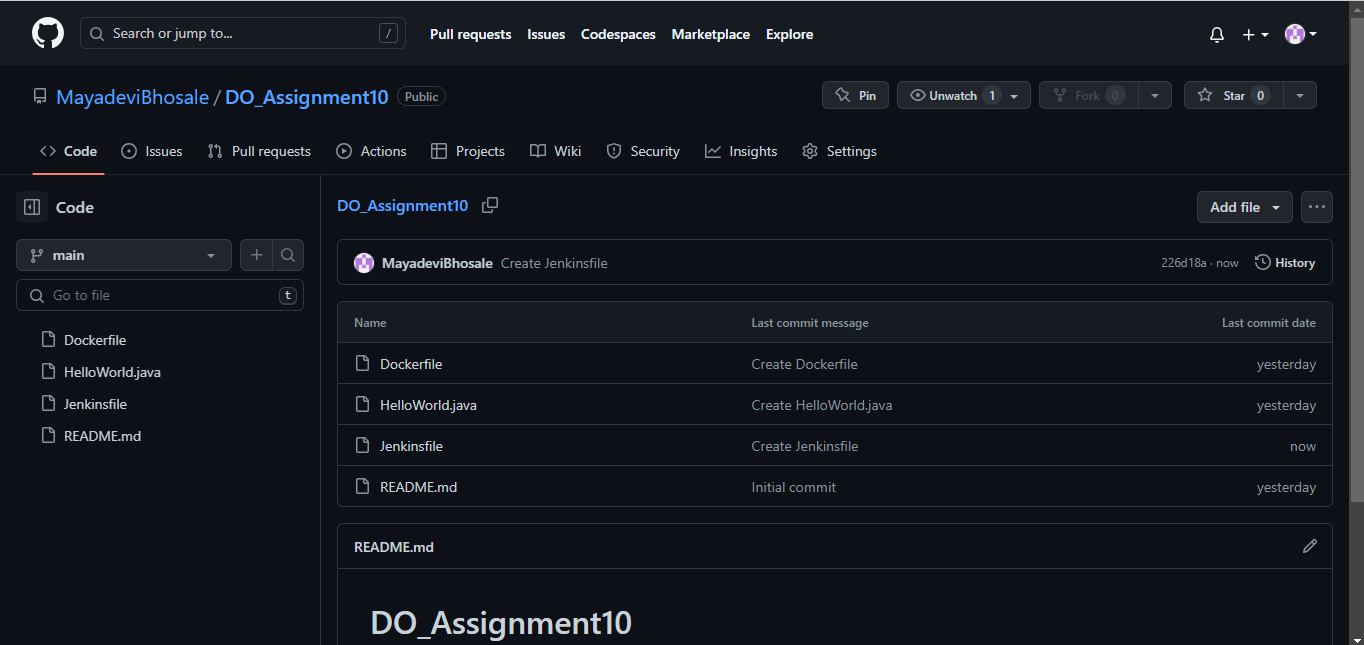
* **Cloudbees docker Build and publish**
* **Docker**
* **Docker Build-Step**

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**Now we will add the “Jenkinsfile” as below: -**

****