CICD ASSIGNMENT-2

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SUBMITTED TO-

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CODE- Code of our project

```
package cicd;
import java.util.*;
interface sales
        int sale();
class publication implements sales
        Scanner sc=new Scanner(System.in);
        publication()
        void show()
                boolean t=true;
                while(t==true)
                System.out.println("Select among (1)book , (2)tape , (3)Exit");
                int option=sc.nextInt();
                if(option == 1)
                        book obj=new book();
                        System.out.println("1>add books ,2>display books");
                        int opt=sc.nextInt();
                        if(opt==1)
                                obj.jok();
                        else if(opt==2)
                                obj.display();
                        else
                                System.out.println("Wrong input");
                else if(option == 2)
                        tape obj2=new tape();
                        System.out.println("1>add tape ,2>Display tape");
                        int ko=sc.nextInt();
                        if(ko==1)
                                obj2.moi();
                        else if(ko==2)
                                obj2.display();
                        else
```

```
System.out.println("Wrong input");
                   else if(option==3)
                            t=false;
                            System.out.println("Wrong input");
public int sale()
                   System.out.println("Enter the sales ");
                   int sal=sc.nextInt();
                   return sal;
         String title()
                   String tit=sc.nextLine();
                   return tit;
         float price()
                   float pric=sc.nextFloat();
                   return pric;
class book extends publication
         Scanner in=new Scanner(System.in);
         String[] titl= new String[10];
         int[] count=new int[10];
         float[] pri=new float[10];
int[] pag= new int[10];
int number=1;
         book()
         void jok()
                   number++;
                   for(int i=0;i<number-1;i++)</pre>
                            System.out.println("Enter the title of the book");
titl[i]=title();
System.out.println("Enter the price of the book");
                            pri[i]=price();
                            System.out.println("Enter the page of book");
                            pag[i]=page();
         int page()
```

```
return pagno;
           void display()
                       for(int j=0;j<number;j++)</pre>
                                  System.out.println("title="+titl[j]+ "price ="+pri[j]+" page="+pag[j]);
class tape extends publication
          Scanner s=new Scanner(System.in);
String[] titt=new String[10];
float[] pre=new float[10];
float[] time=new float[10];
int num=1;
           tape()
                      num++;
for(int k=0;k<num-1;k++)</pre>
                       System.out.println("Enter the title of tape");
titt[k]=title();
System.out.println("Enter the price of tape");
                       pre[k]=price();
System.out.println("Enter the play time");
time[k]=playing();
           }
float playing()
                       float tim=s.nextFloat();
return tim;
                       for(int y=0;y<num;y++)</pre>
                                   System.out.println("title="+titt[y]+ "price ="+pre[y]+" playing time="+time[y]);
public class test
           public static void main(String[] args)
                       System.out.println("\t\t Welcome to the store");
publication ma=new publication();
                      ma.show();
```

```
Dest_pivo

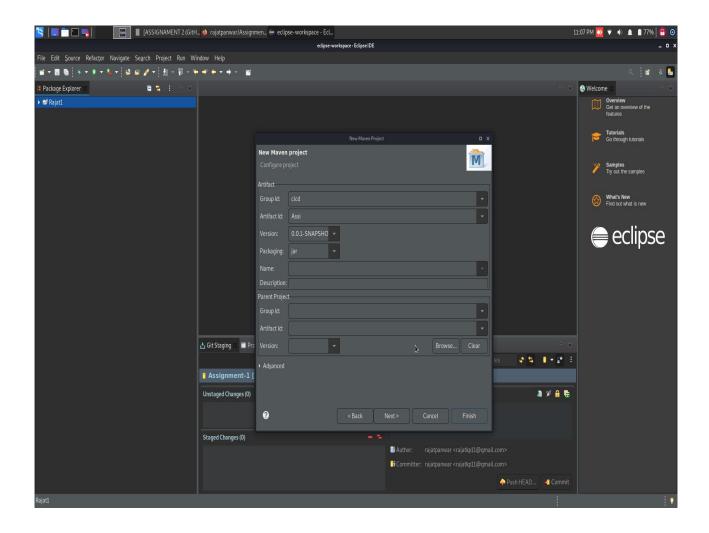
| Deschape ccc;
| Import java.util.Scanner;
| Simport java.util
```

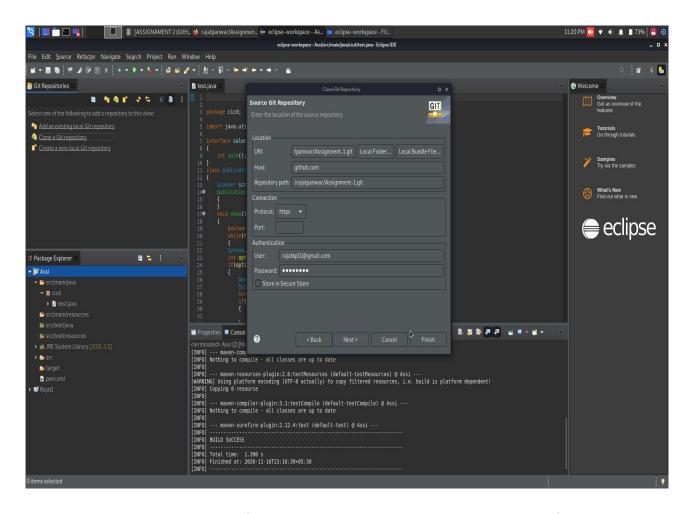
code run sucessfully with the help of "test" goal

STEP-2 :- integrte eclipse with github to send the code on github

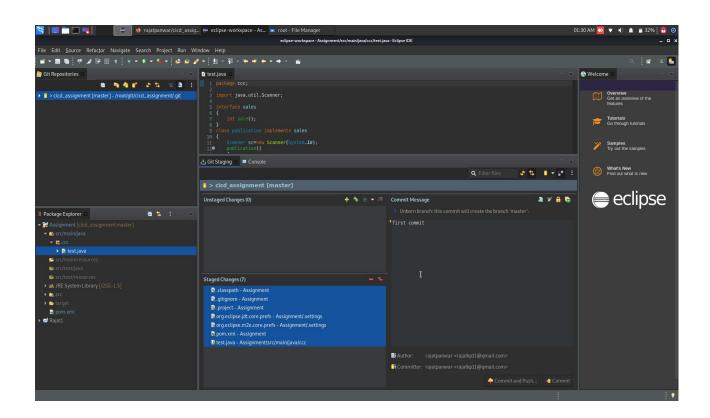
open your eclipse after that create a maven project and write code and check that code with the help of "test" goal after that

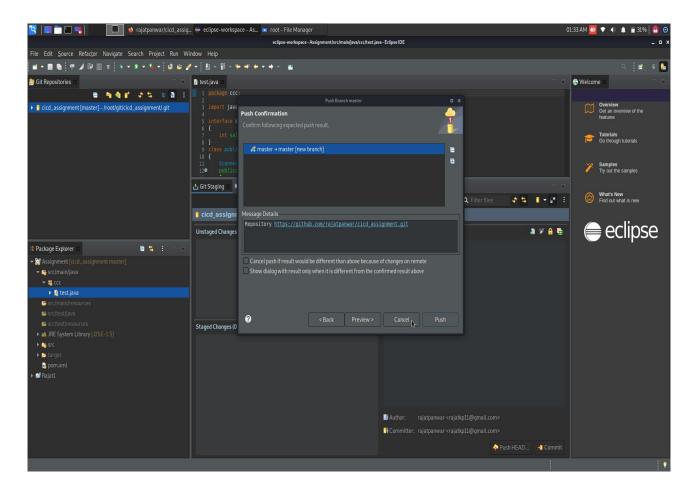
go open perspective--> git and fill your github url and password and username.



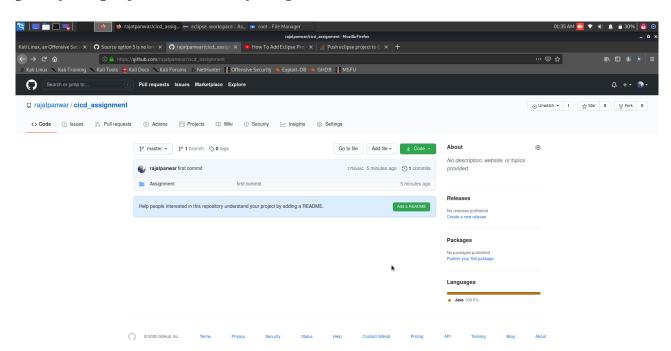


go TEAM->COMMIT-> after that do unstages to stage changes after that click on "commit and push"

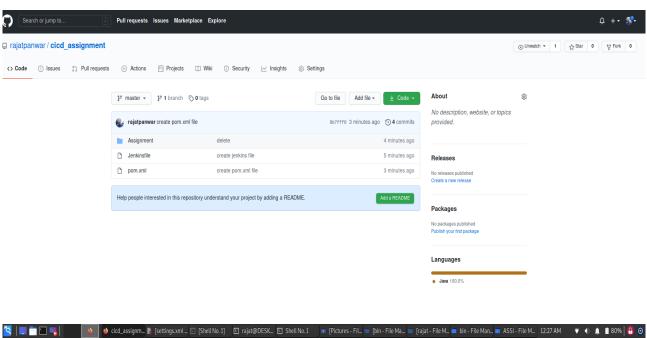


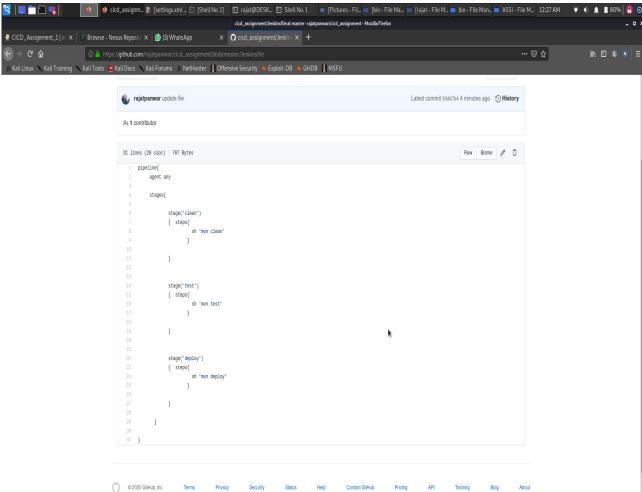


push your project successfully on github-



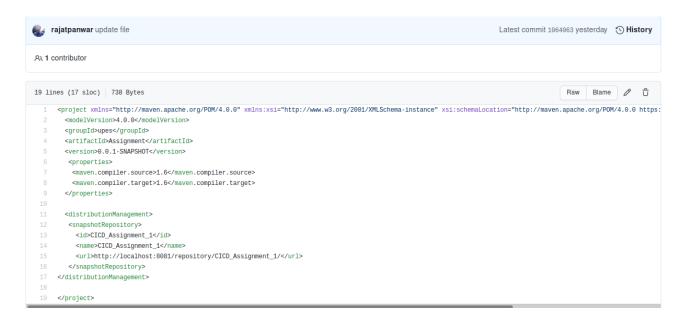
after that cut the pom.xml file from inside the Assignment and paste that file out side the Assignment and create the "Jenkinsfile" and write code



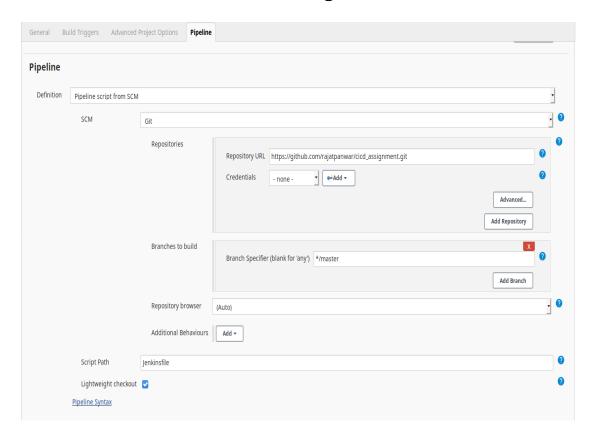


```
pipeline{
agent any
stages{
stage('clean')
{ steps{
sh 'mvn clean'
}
}
stage('test')
{ steps{
sh 'mvn test'
}
}
stage('deploy')
{ steps{
sh 'mvn deploy'
}
}
}
```

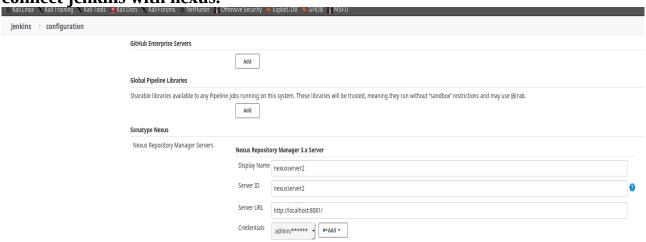
after that modify the pom.xml file and adding some tag related to nexus server:- give your nexus repository URL in url tag



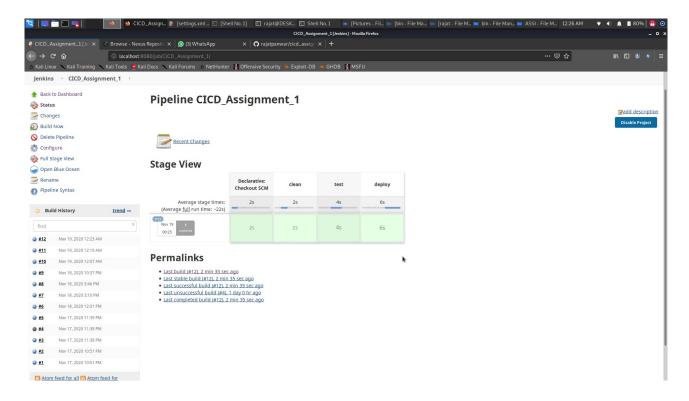
STEP-3 start your jenkins and download plugin of nexus after that crearte new pipeline project In my case my project is "CICD_ASSSIGNMENT_1" and do some setting



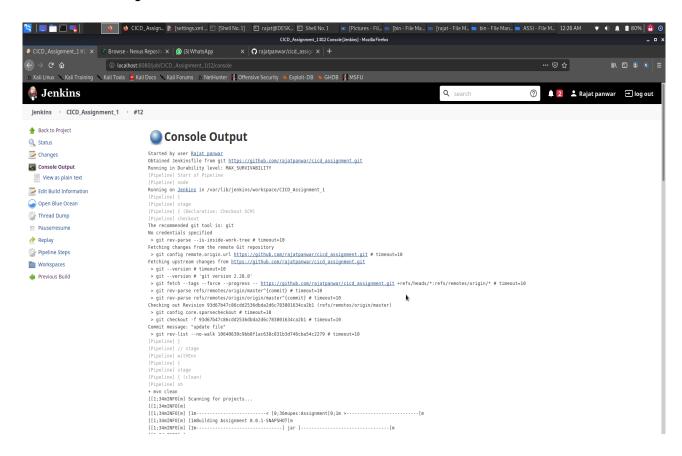
go managejenkins->configuration->sonatype nexus and do necessary changes to connect jenkins with nexus.

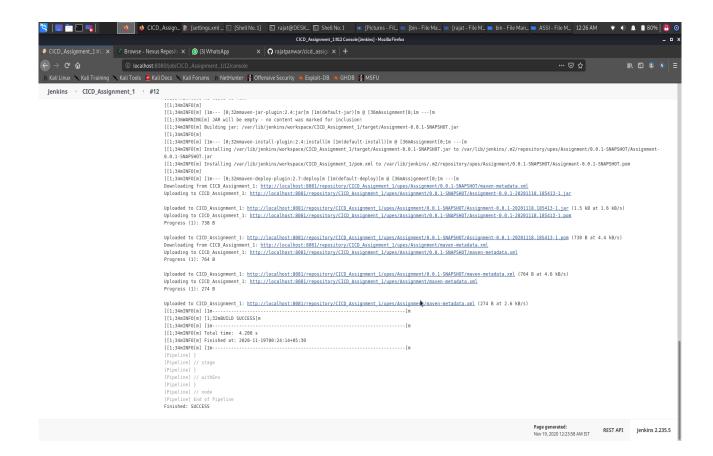


and after that click on "Build now" see the console output and created pipeline



Console output:-





finished: SUCCESS

after that do some changes in maven open "setting.xml" and add server tag and give your nexus repo name as a id

- 2. username NEXUS
- 3. password NEXUS

path of setting.xml file in KALI LINUX

go to otherlocation-->usr-->share-->maven-->conf-->setting.xml

```
<server>
     <id>"repository name"</id>
     <username>"nexus username"</username>
     <password>"give your password of nexus"</password>
</server>
```

```
settings.xml
←!— Another sample, using keys to authenticate.
        <server>
          <privateKey>/path/to/private/key</privateKey>
          <passphrase>optional; leave empty if not used./passphrase>
        </server>
        <server>
     <id>rajat_CICD</id>
         <username>admin</username>
  <password>admin123</password>
</server>
         <server>
  <id>nexus_lab10</id>
  <username>admin</username>
  <password>admin123</password>
           <id>CICD_Assignment_1</id>
                       >Rajat.97<mark>k/password></mark>
         This is a list of mirrors to be used in downloading artifacts from remote repositories.
         it to several places.
         repository, to be used as an alternate download site. The mirror site will be the preferred server for that repository.
            for inheritance and direct lookup purposes, and must be unique across the set of mirrors.
        </mirror>
```

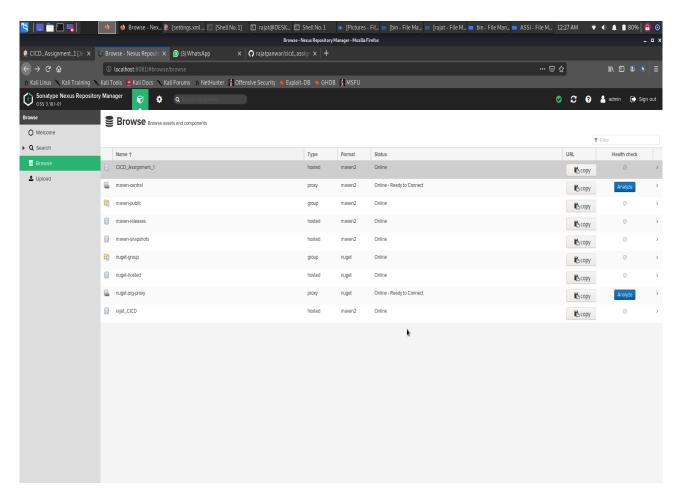
after that start your nexus "localhost.8081" with the command of "./nexus start".

And create a new repository IN my case my repo name is "CICD_ASSIGNMENT_1"

step for create a repo in nexus:-

- 1. Go to setting and after that click on create repository.
- 2. after that clcik on maven2 (hosted).
- 3. Give repo name
- 4. Version policy--> SNAPSHOT
- **5.Deployment policy--> ALLOW REDOPLOY**

after that click on create repository and copy this URL and paste that URL in pom.xml file of <url>""</url> tag



and after that upload all files on nexus

