

**WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
INFORMATION TECHNOLOGY
2021-22 SEMESTER-II
DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Aim:

To Set up the Git Server & use it.

Problem statement:

Set up the Git Server & use it.

Submit pdf file with all steps and screenshots.

Output Screenshots:

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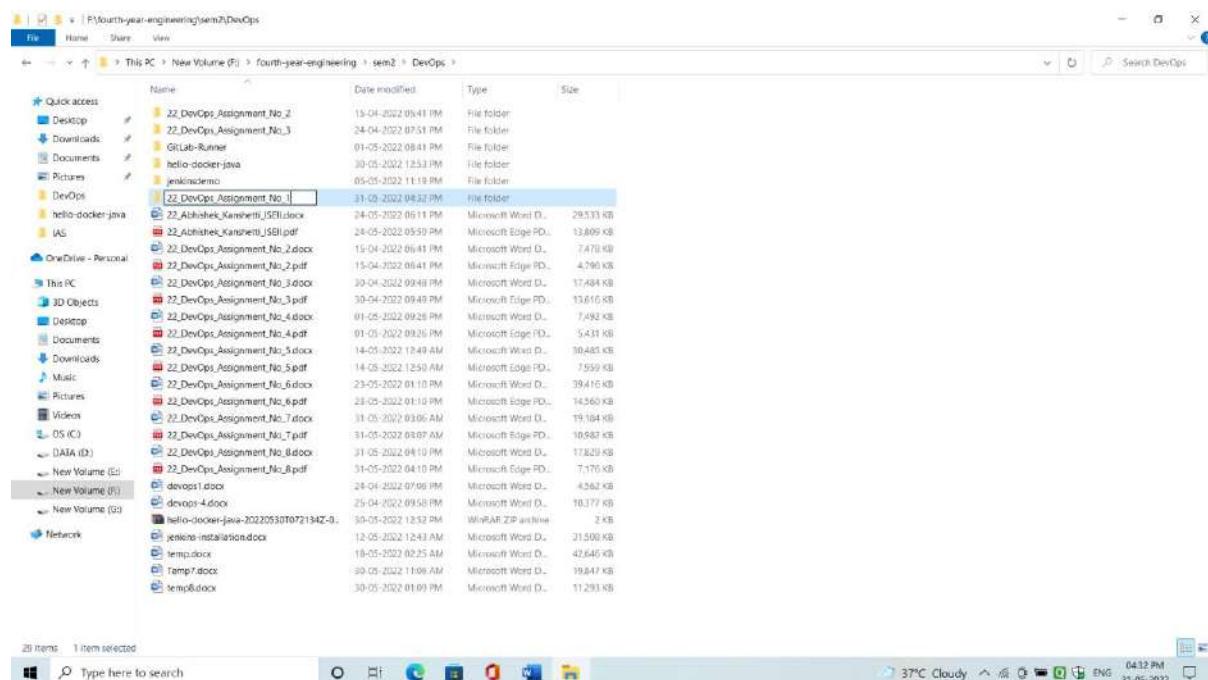
Name: Abhishek Basavraj Kanshetti

Roll No: 22

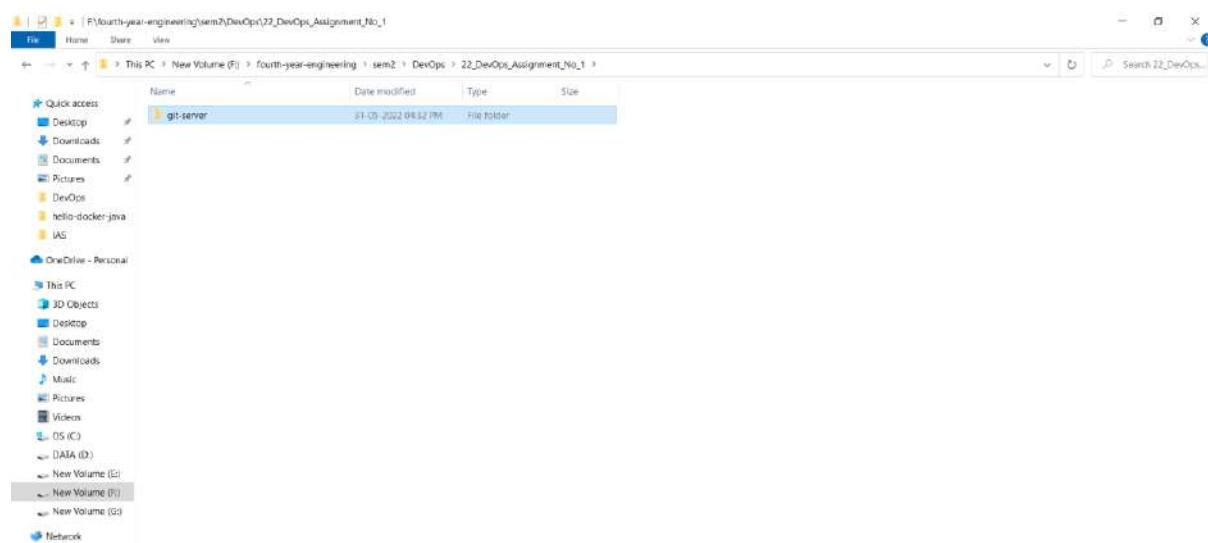
ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

First, we will create the folder as follow: -



Then within that folder we will create folder named “git-server” as follow: -



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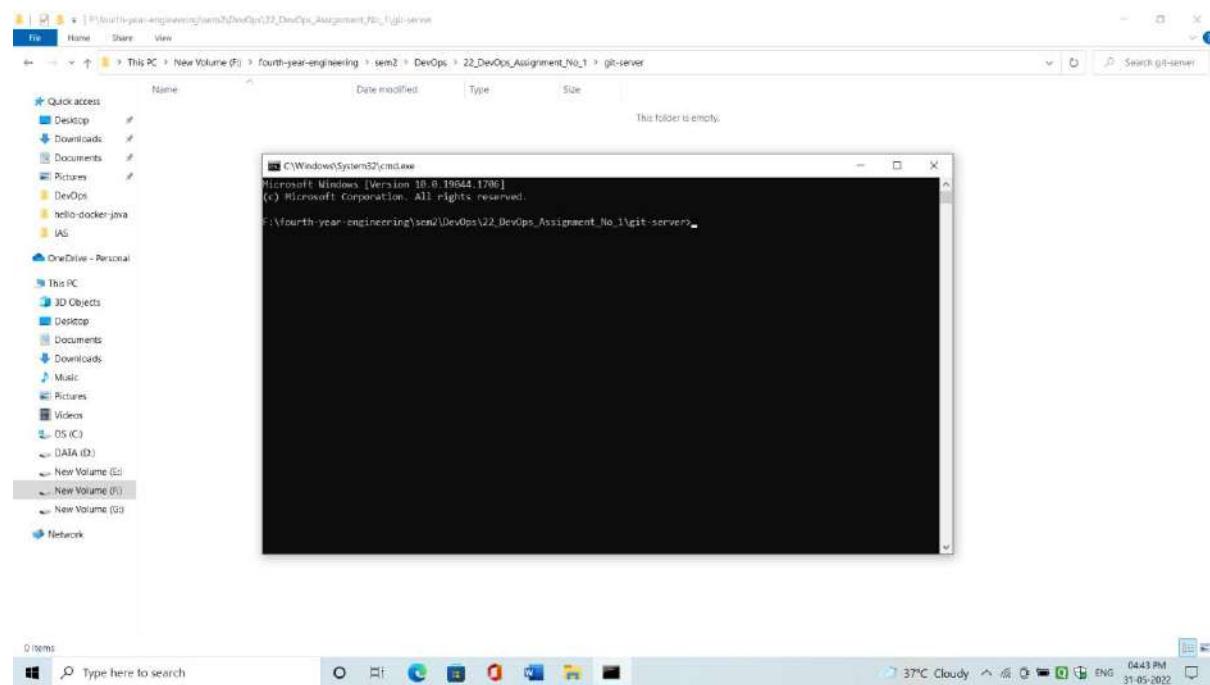
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Roll No: 22

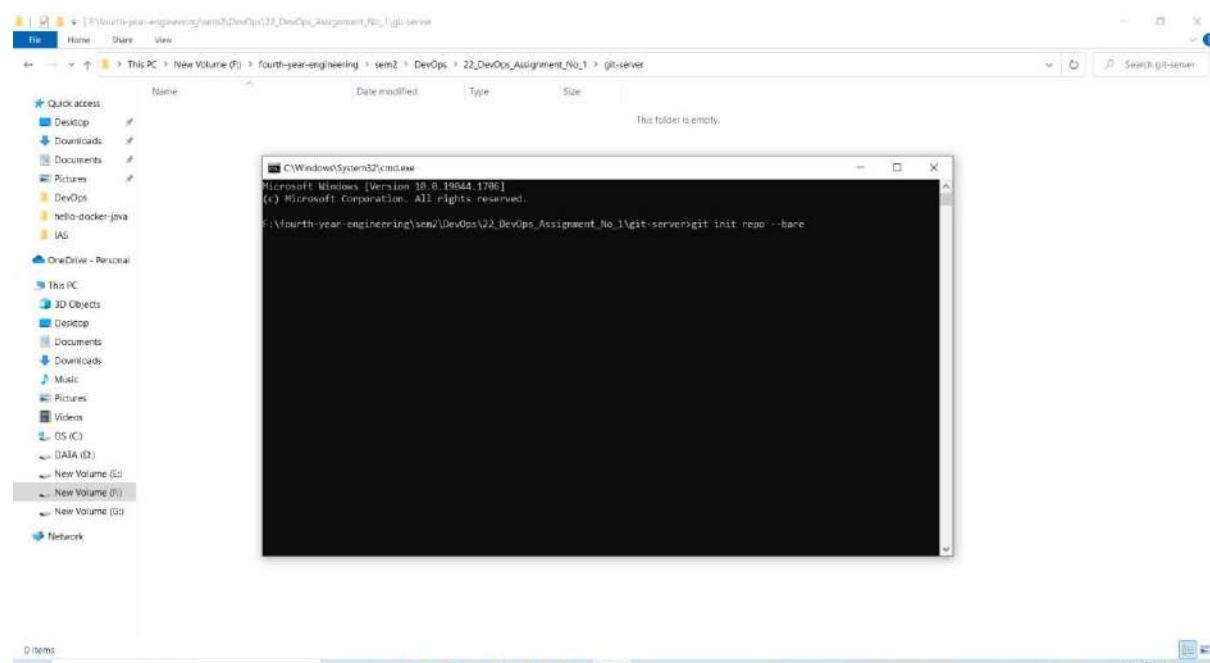
ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Then we will open cmd as follow: -



To create the Git Server, we will give the command as follow: -



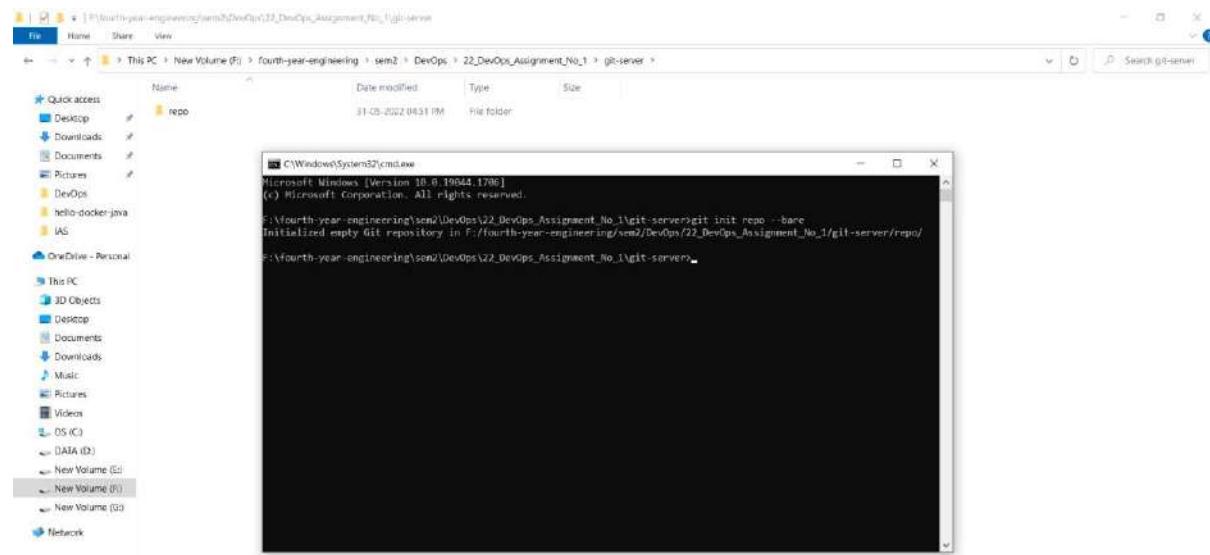
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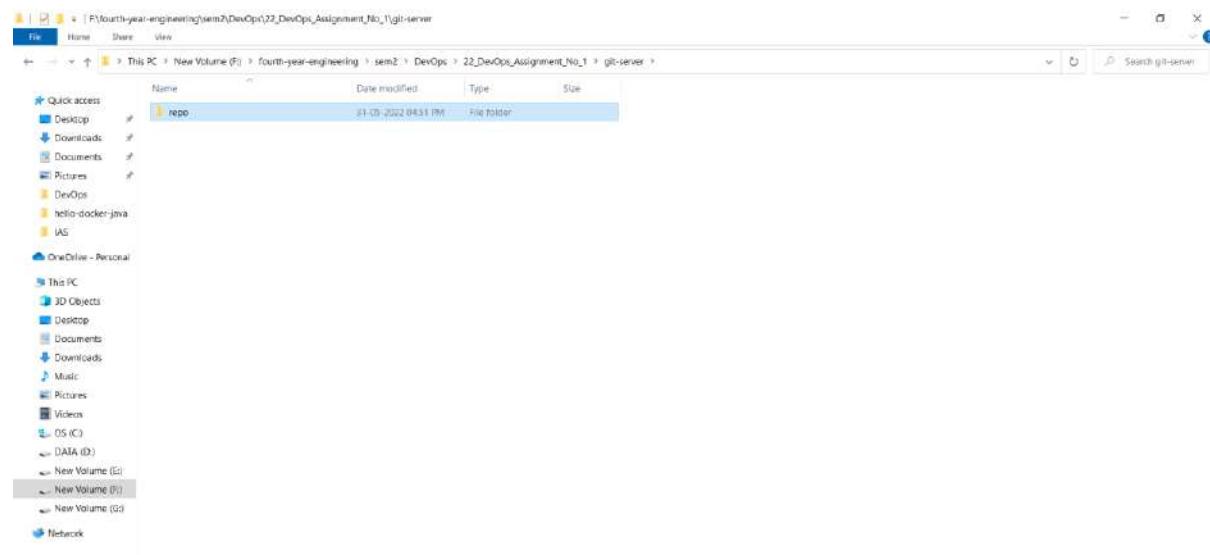
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Title: Set up the Git Server & use it.



Here we can see the Folder is created named “repo”:-



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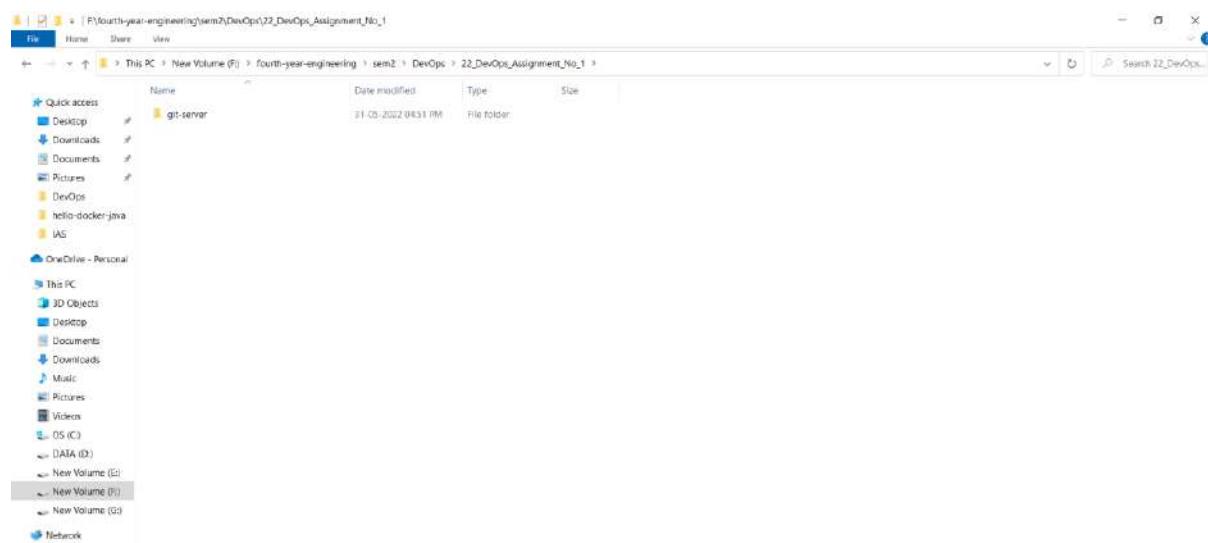
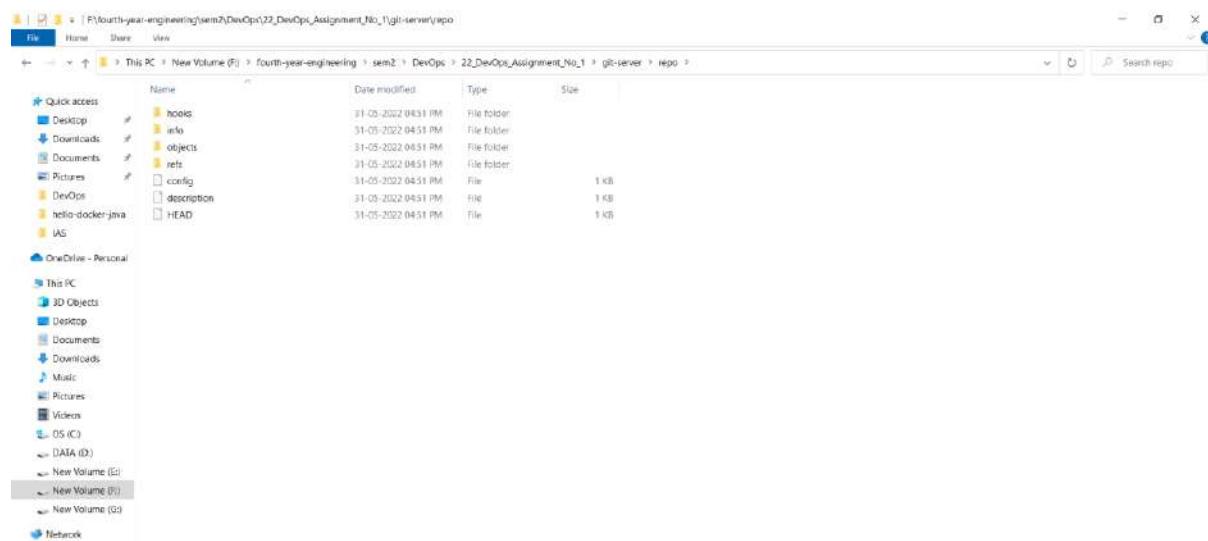
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ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Folders within the repo as follow: -



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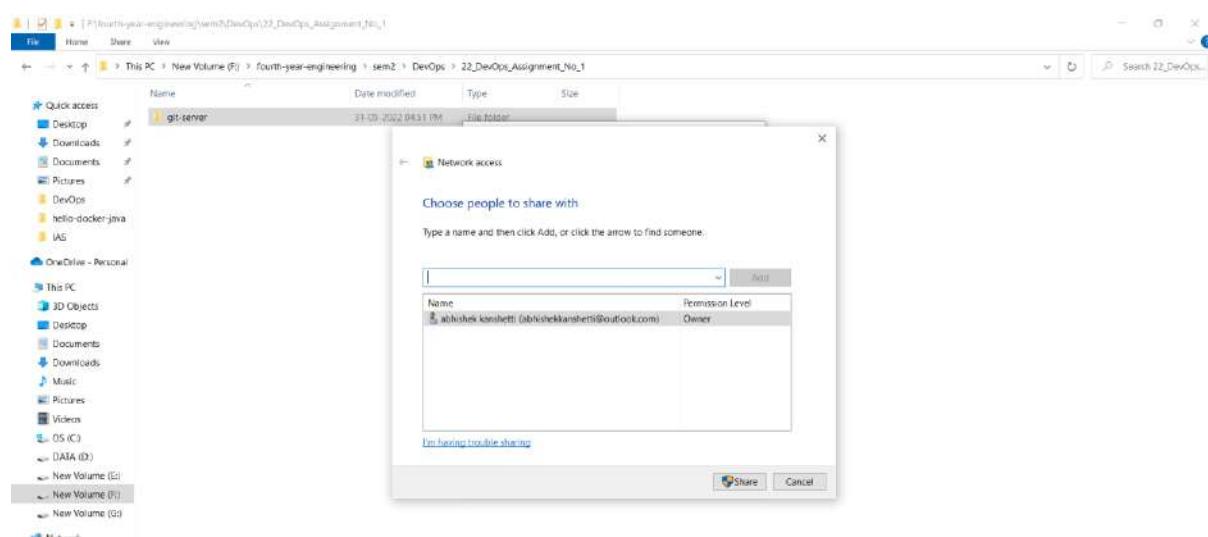
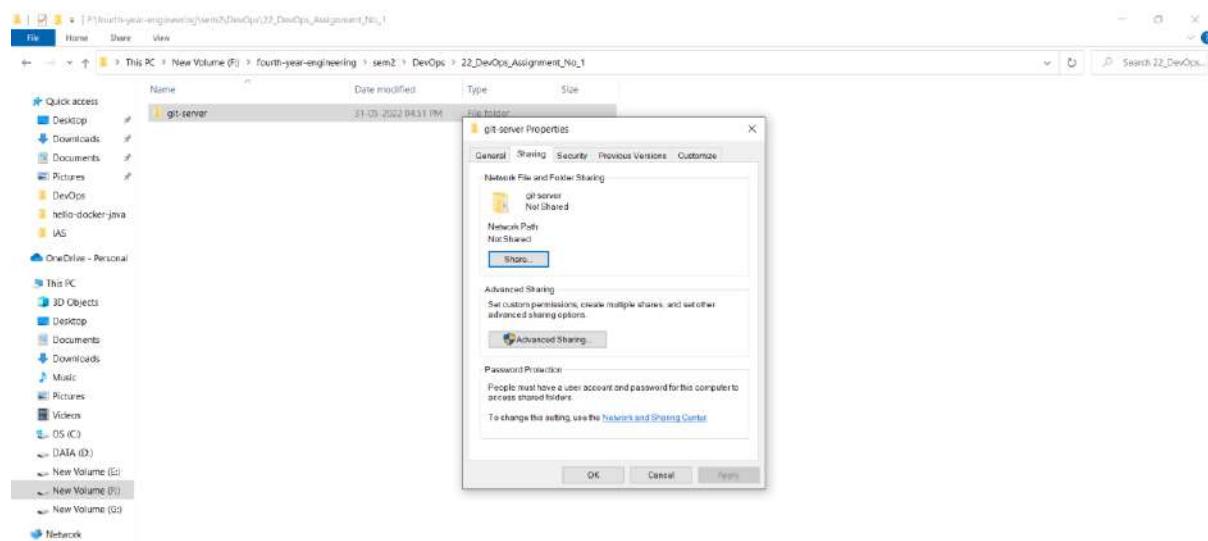
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ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Now we will share our git-server folder as below: -



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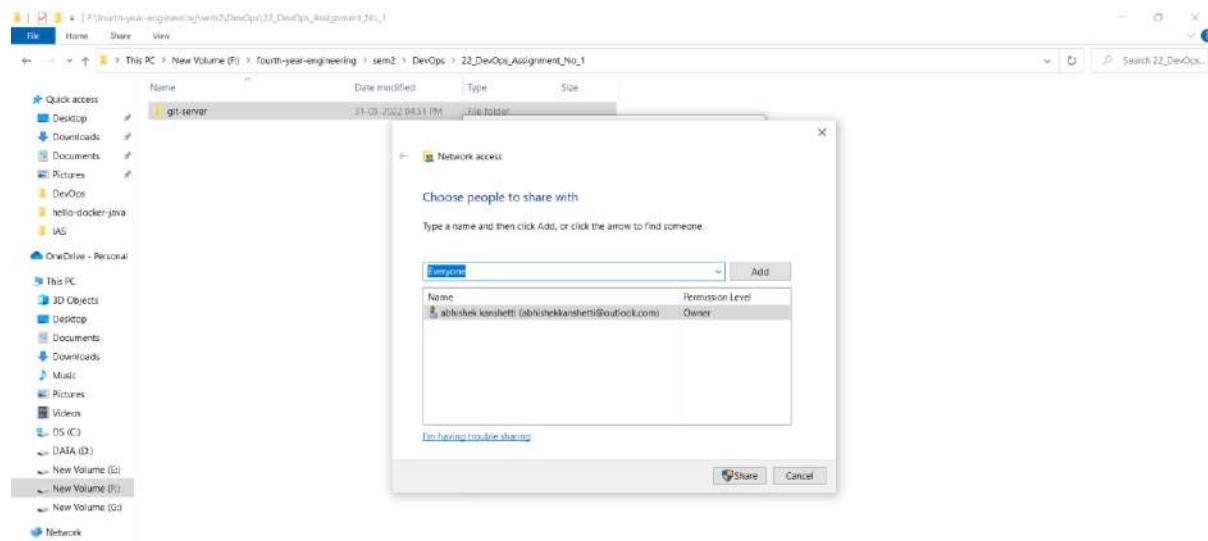
Name: Abhishek Basavraj Kanshetti

Roll No: 22

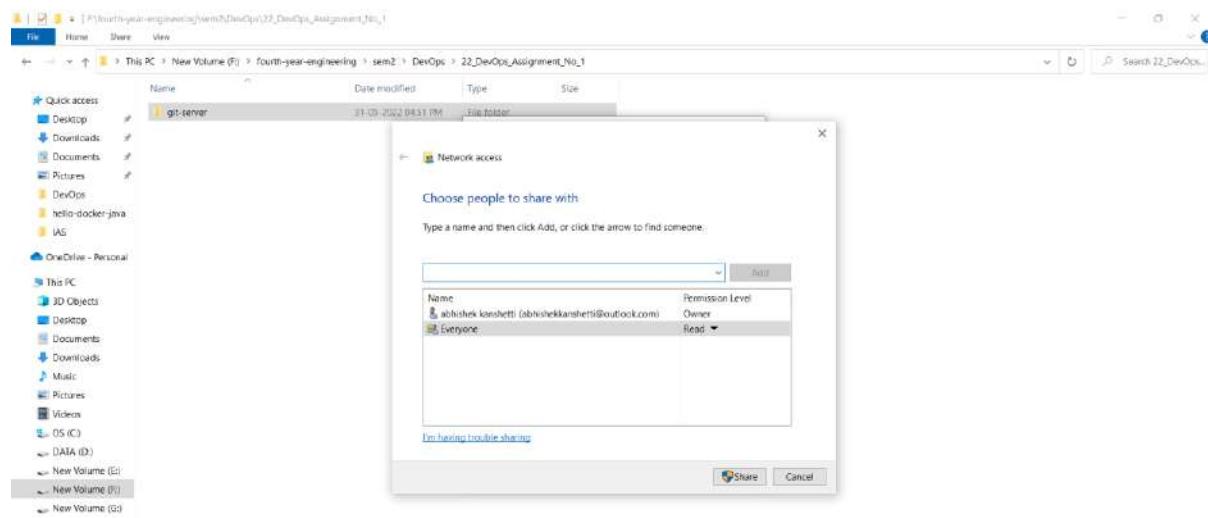
ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

We will select “everyone” from dropdown list as follow: -



Now we will edit the permissions as follow: -



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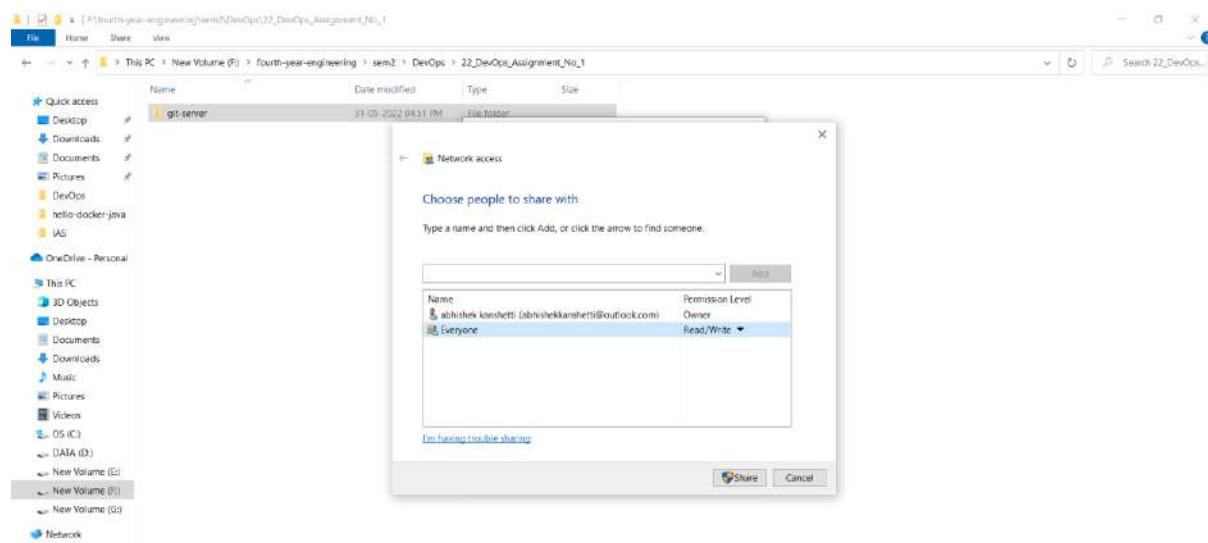
Name: Abhishek Basavraj Kanshetti

Roll No: 22

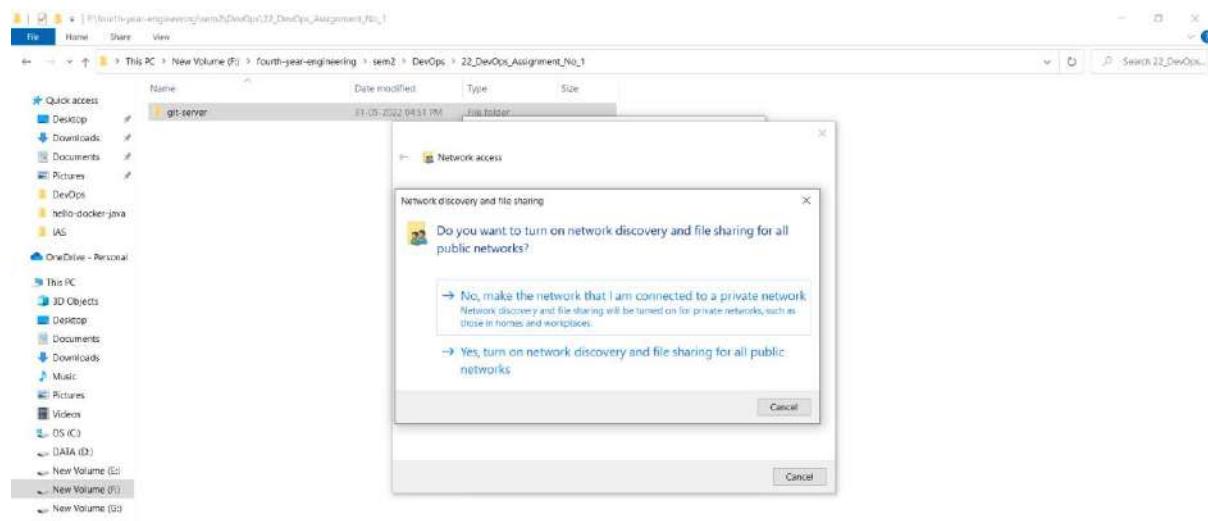
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Title: Set up the Git Server & use it.

Here we will select Read/Write permission as follow: -



We will select private network as below: -



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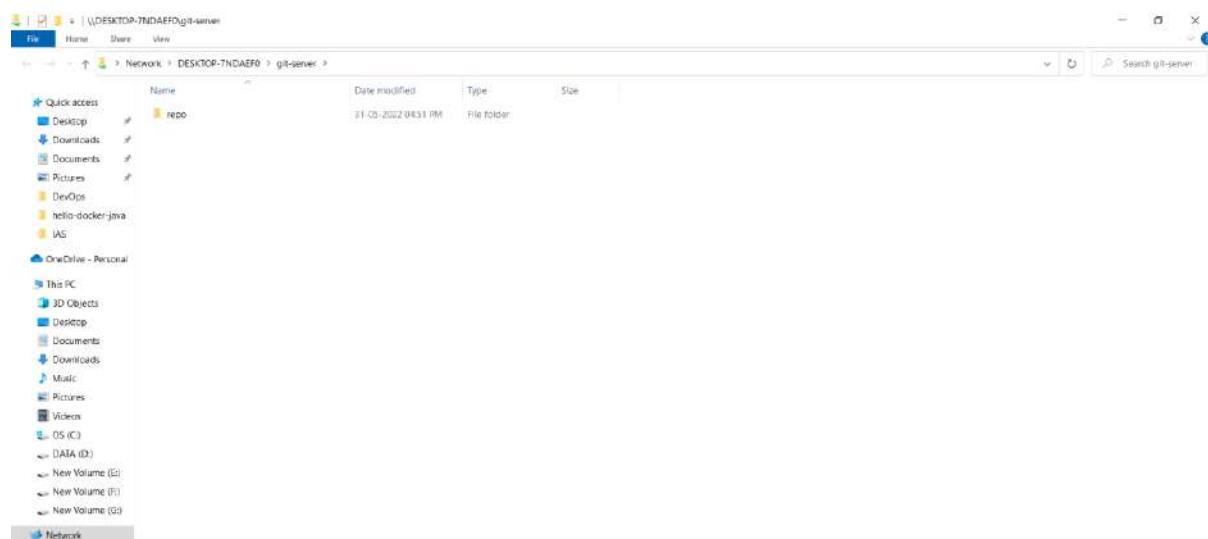
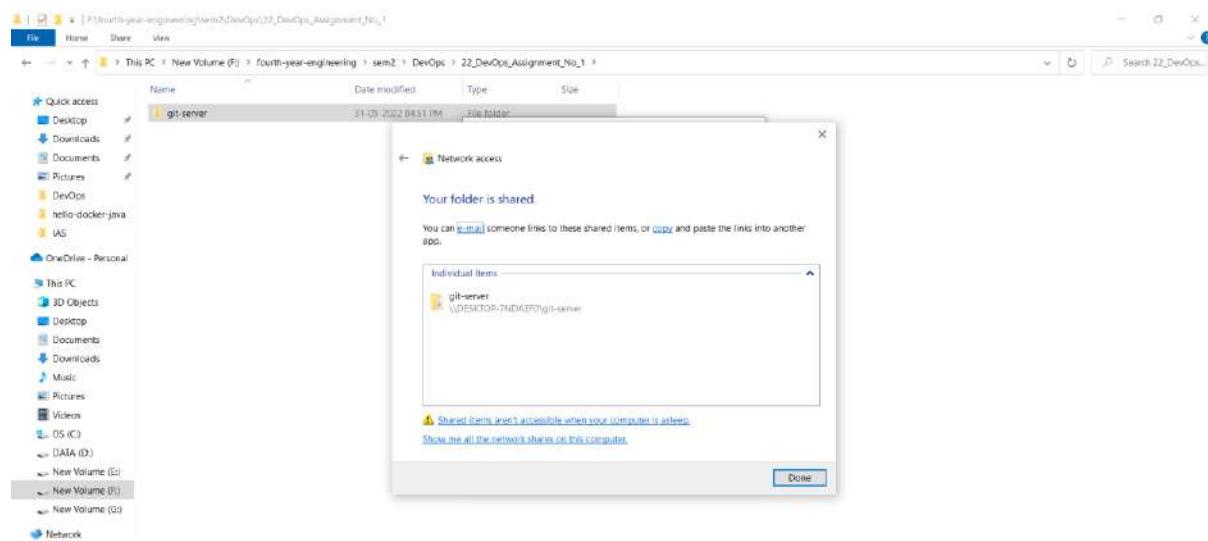
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Roll No: 22

ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Now our folder is shared as follow: -



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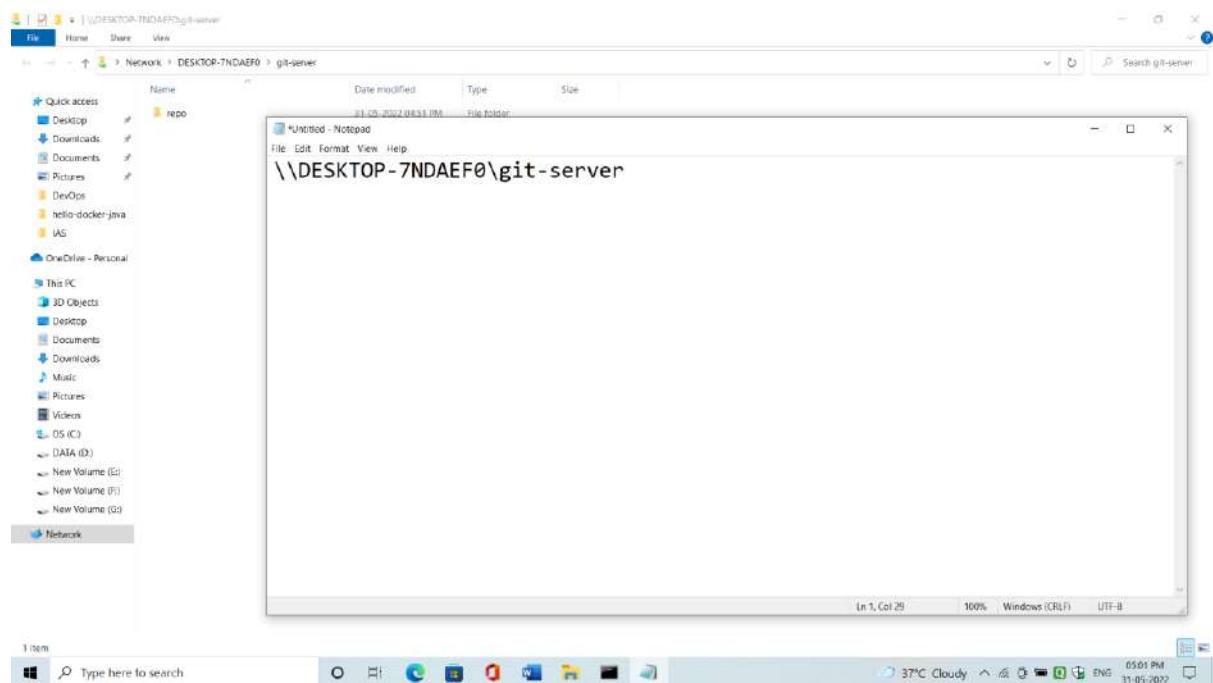
Name: Abhishek Basavraj Kanshetti

Roll No: 22

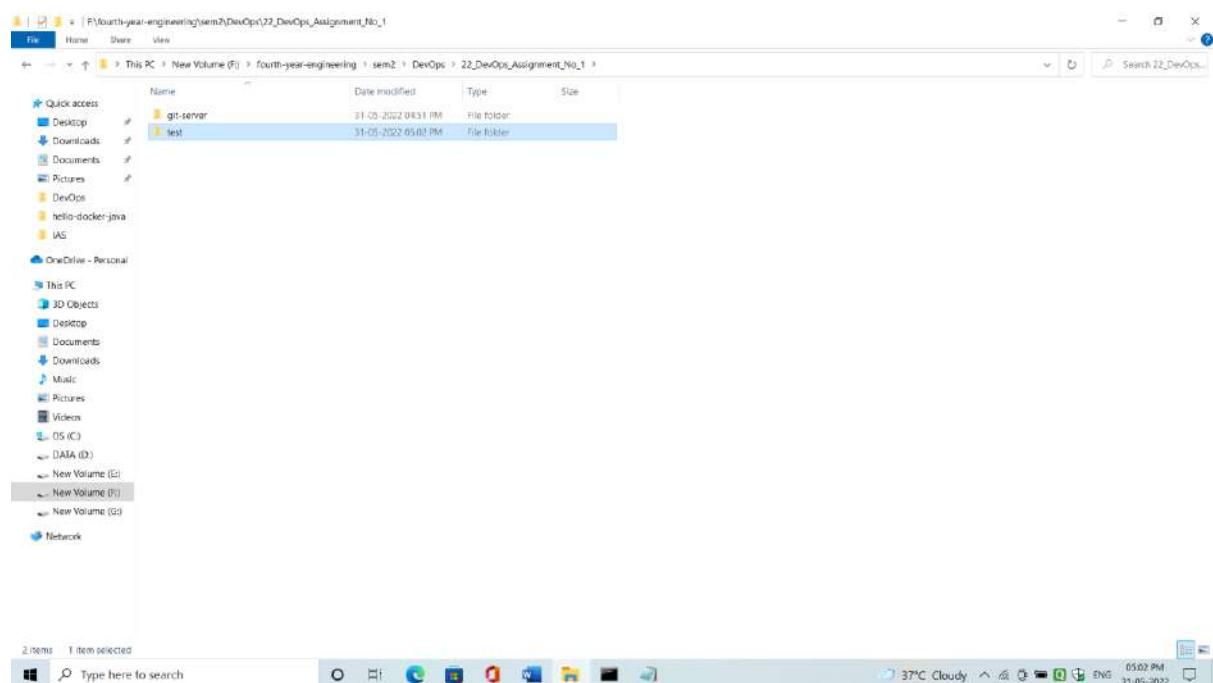
ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Now we will copy that path as below: -



Now we will create the test folder as below: -



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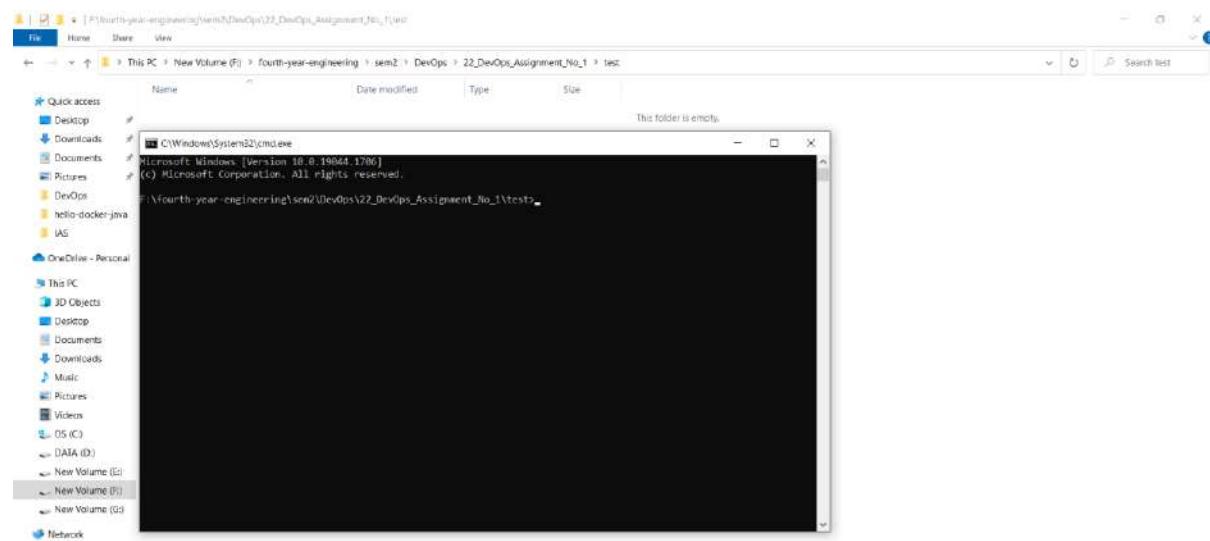
Name: Abhishek Basavraj Kanshetti

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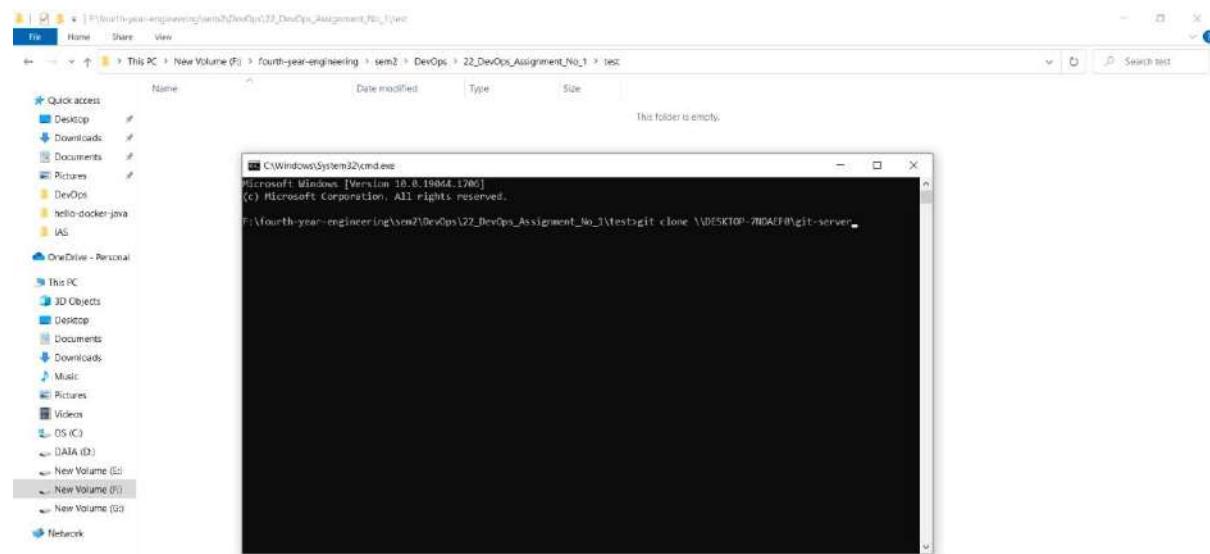
ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Now we will cmd as follow: -



Now we will clone the repository as below: -



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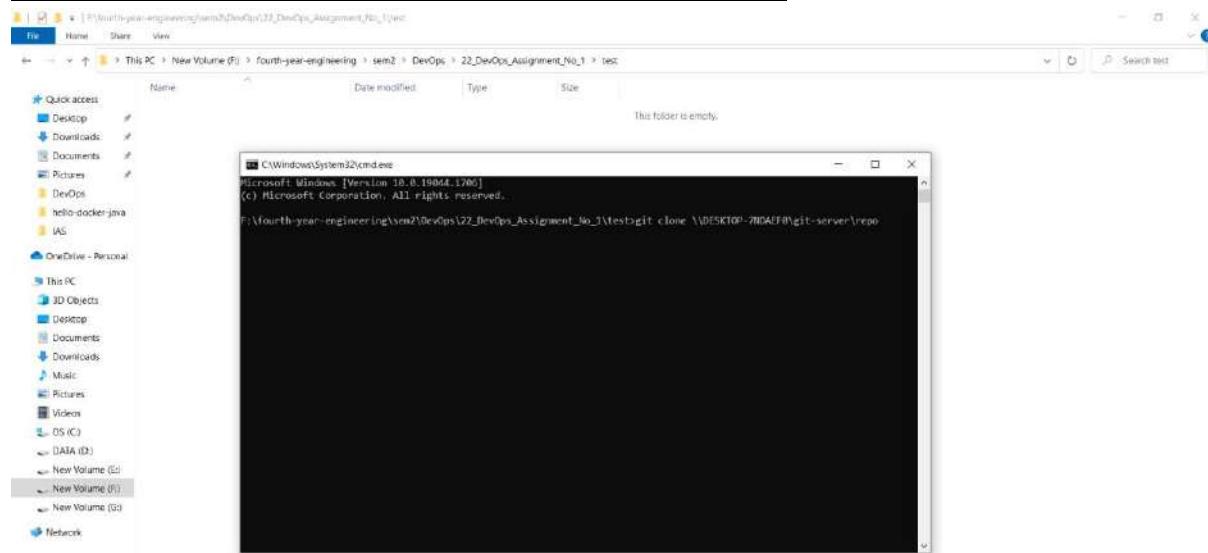
Name: Abhishek Basavraj Kanshetti

Roll No: 22

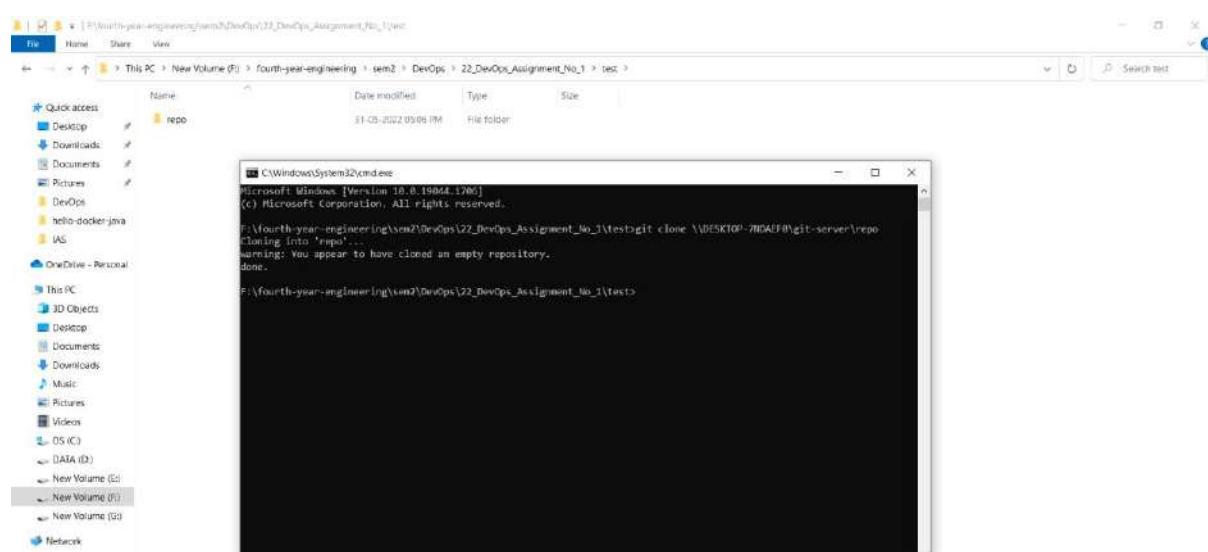
ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

By specifying repository name as “repo”: -



Cloned the Repository as below: -



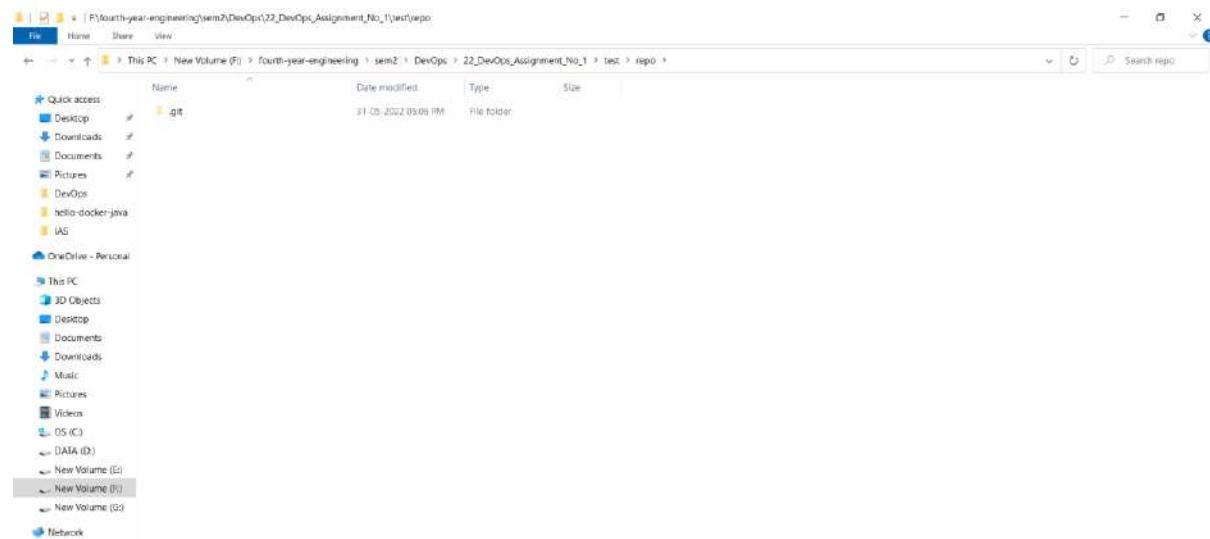
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Name: Abhishek Basavraj Kanshetti

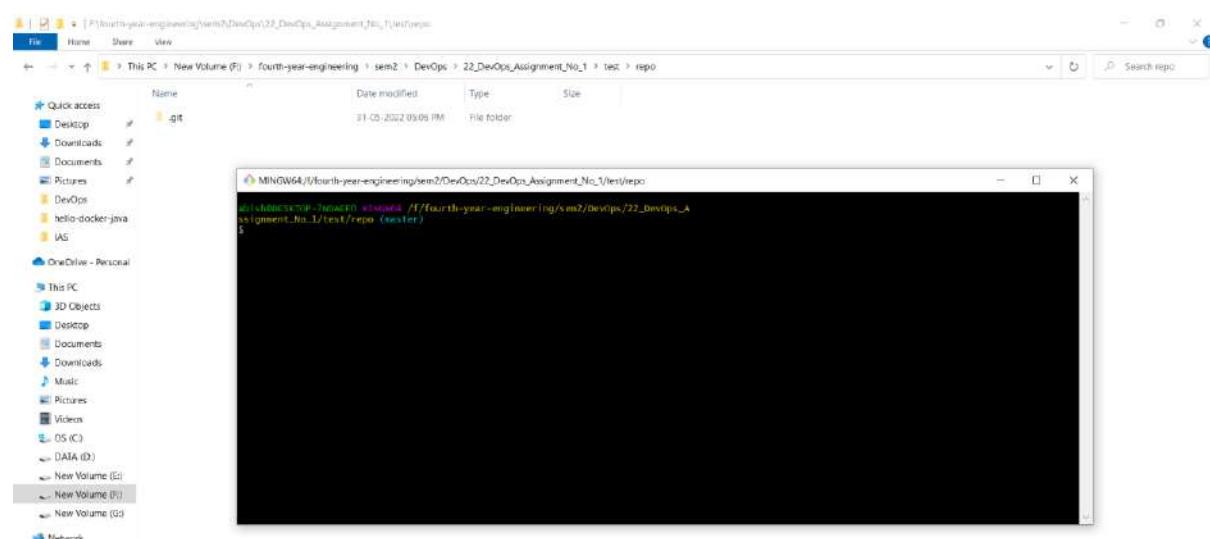
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ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.



Here we have opened the git bash as below: -



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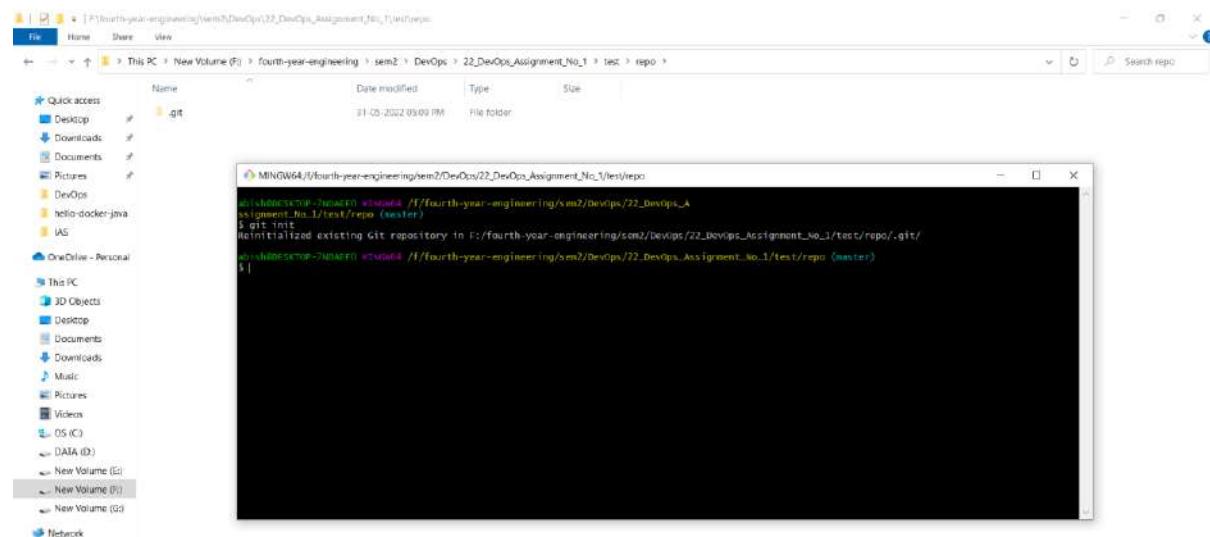
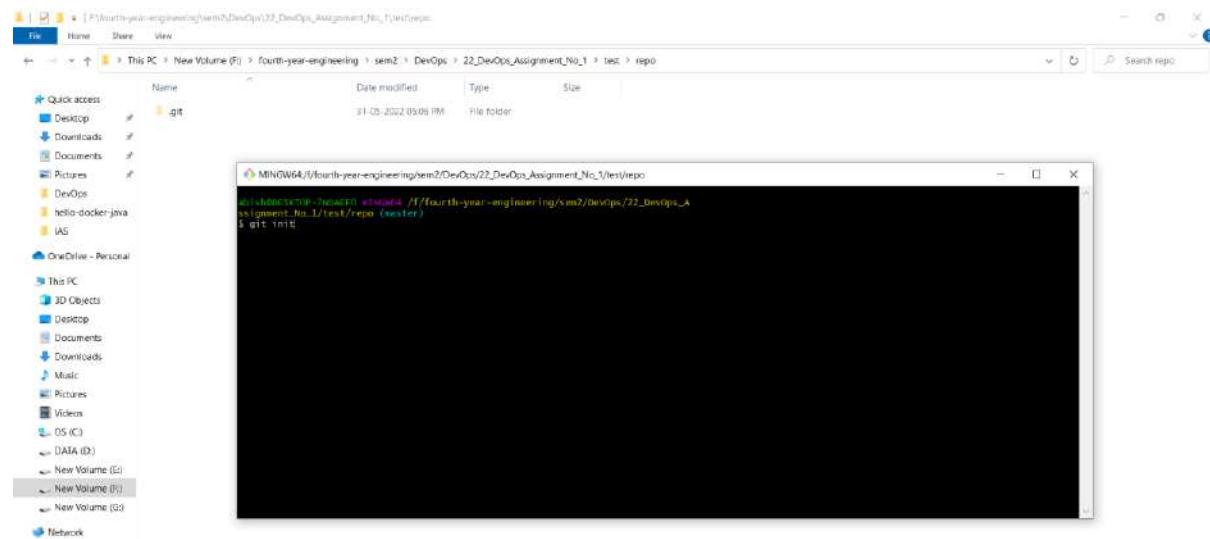
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ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Now we will initialise the repository as below: -



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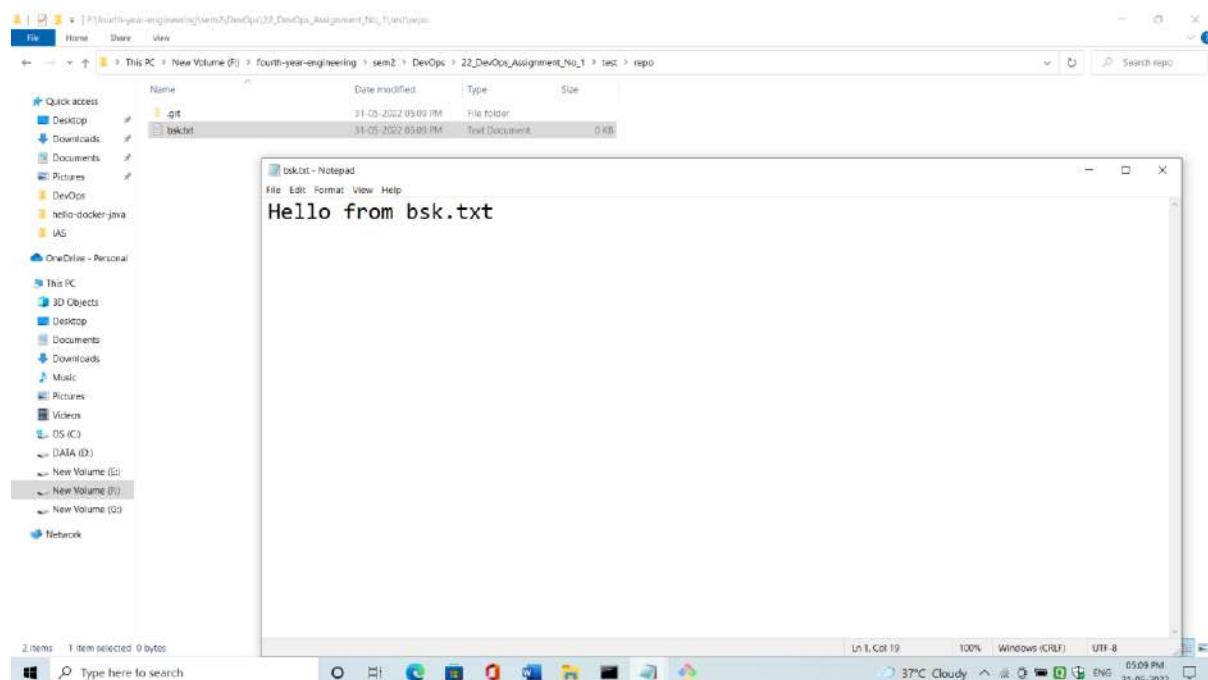
Name: Abhishek Basavraj Kanshetti

Roll No: 22

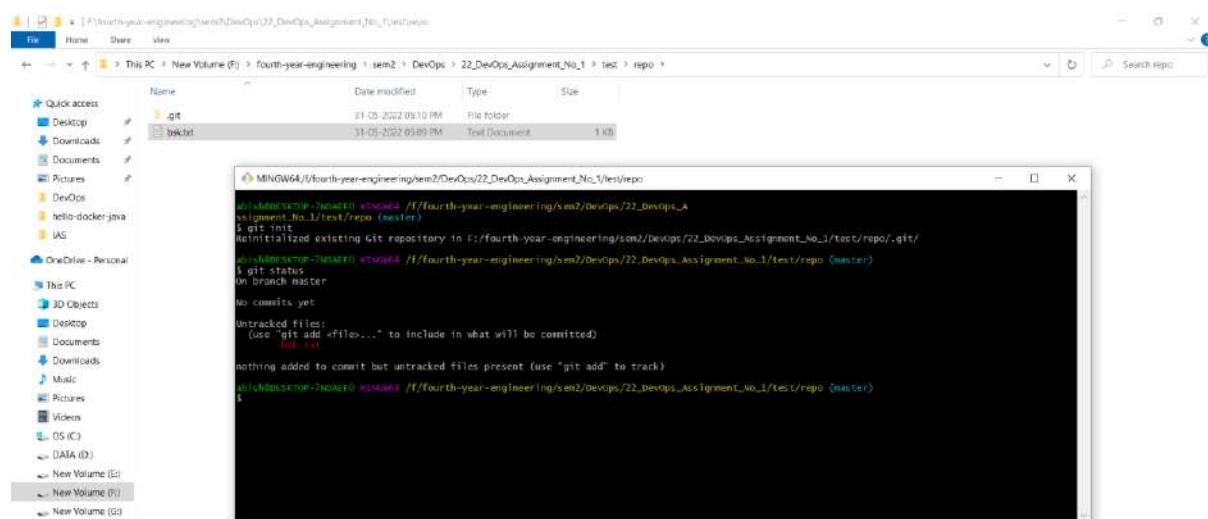
ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Now we will add “bsk.txt” file as below: -



Now we will check the status by giving git status command: -



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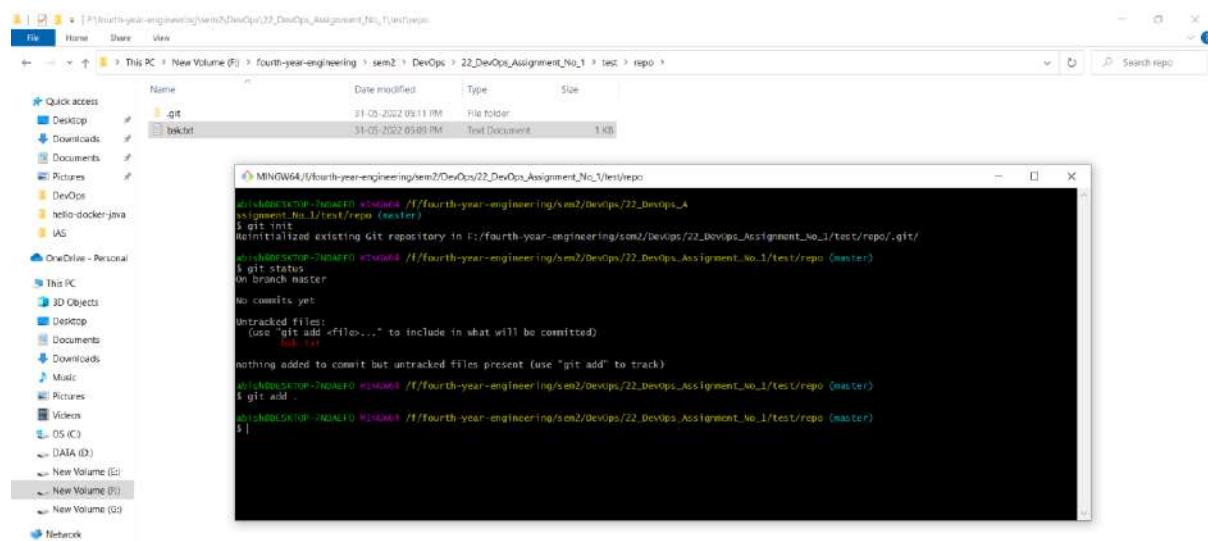
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Roll No: 22

ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Added file to staging area as below: -



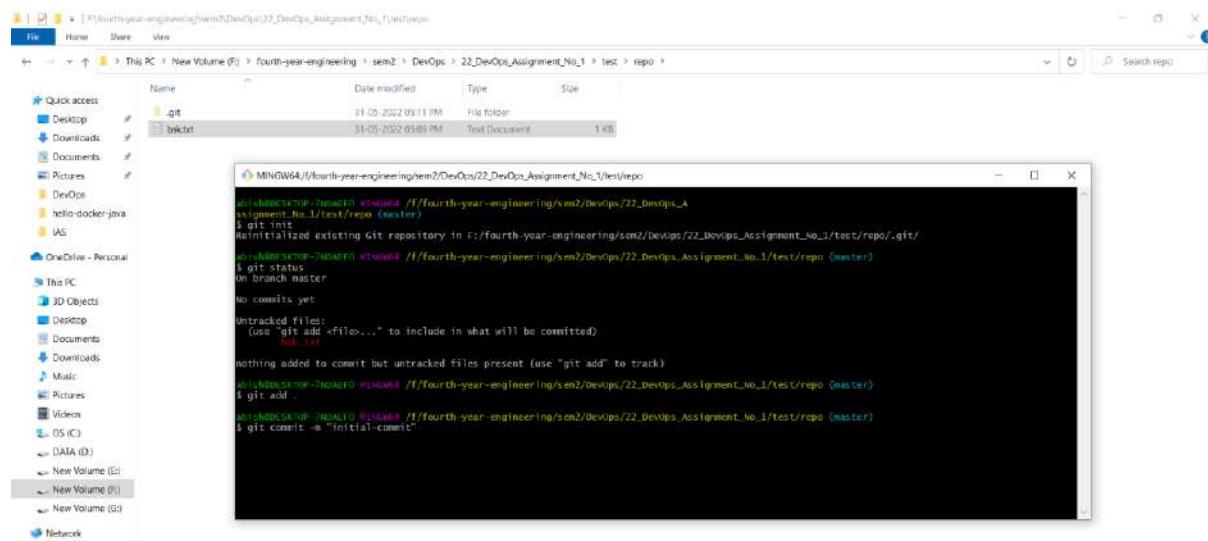
```

MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_1 / test / repo
$ cd fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_1 / test / repo
$ git init
$ git add .
$ git commit -m "Initial Commit"

```



Committed file as below with commit message: -



```

MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_1 / test / repo
$ cd fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_1 / test / repo
$ git init
$ git add .
$ git commit -m "Initial Commit"

```



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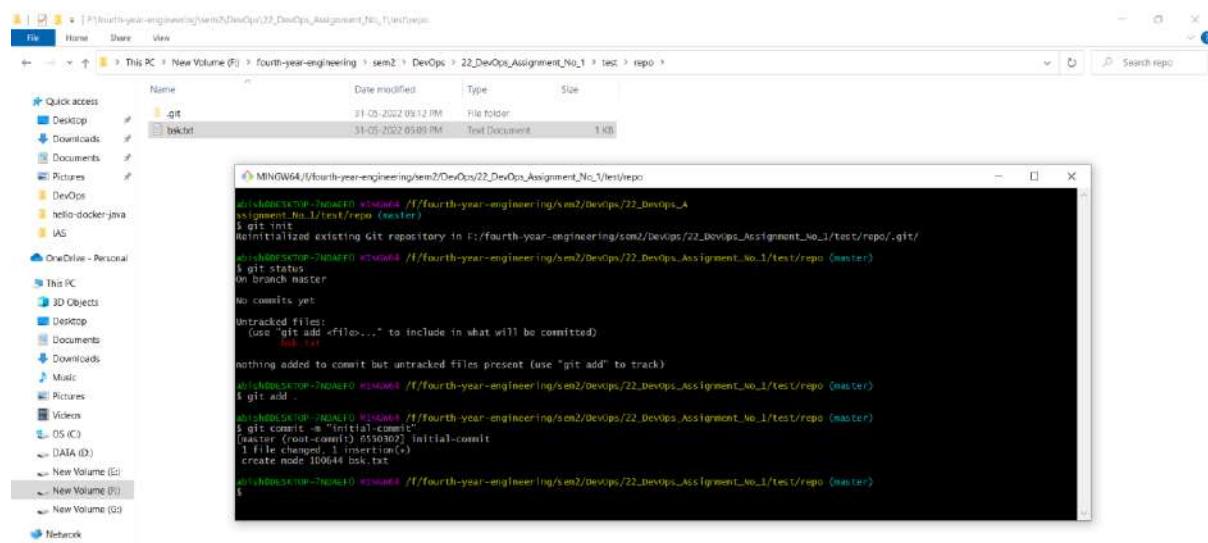
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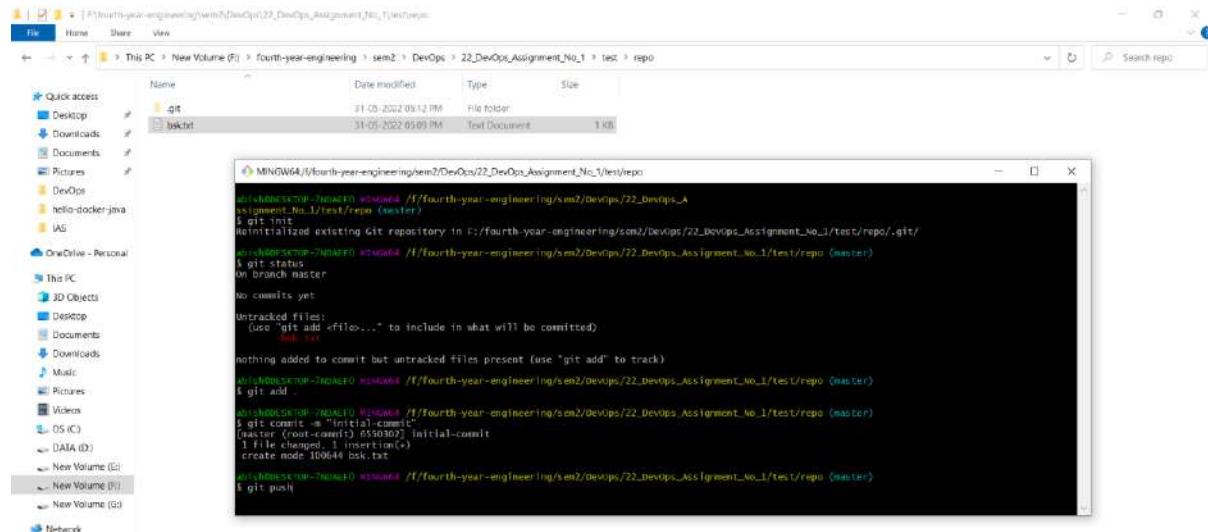
ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Committed file as below: -



Now we will push our file to the git server as below:-



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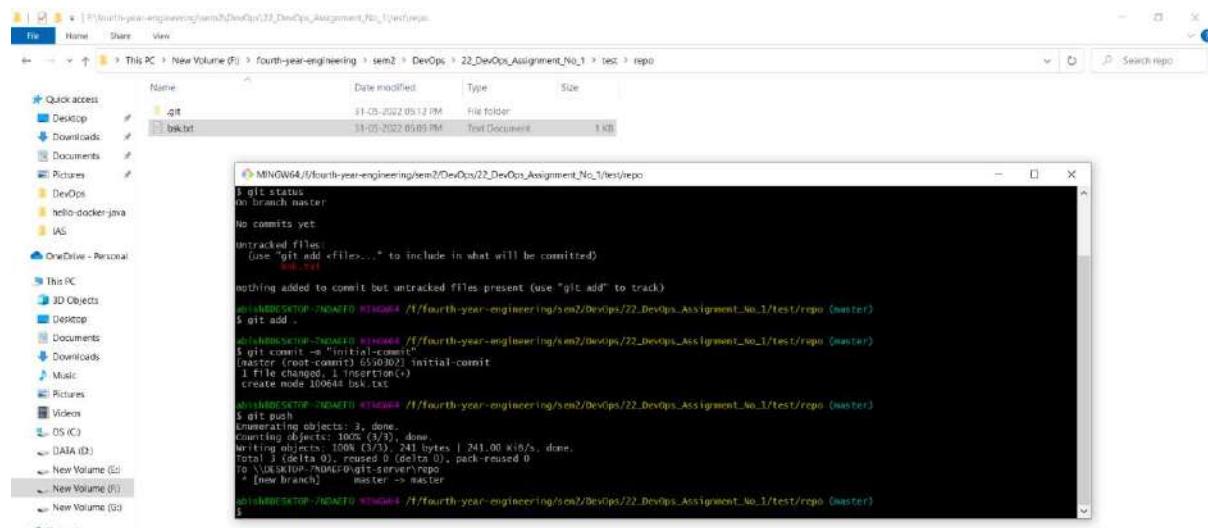
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 1

Title: Set up the Git Server & use it.

Our file is pushed to git server as below and we can see git server path where our file is pushed in below screenshot as follow:-



```
$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    bsk.txt

nothing added to commit but untracked files present (use "git add" to track)

$ git add .

$ git commit -m "Initial Commit"
[master (root-commit) 6550302] initial-commit
  1 file changed, 1 insertion(+)
  create mode 100644 bsk.txt

$ git push
Enumerating objects: 3, done.
Writing objects: 100% (3/3), 241 bytes | 241.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To V:\ALASKTOP-7MNEC\git-server\repo
 * [new branch] master -> master
```



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DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 2

Title: Implement GitHub Operations

Aim:

To Implement GitHub Operations.

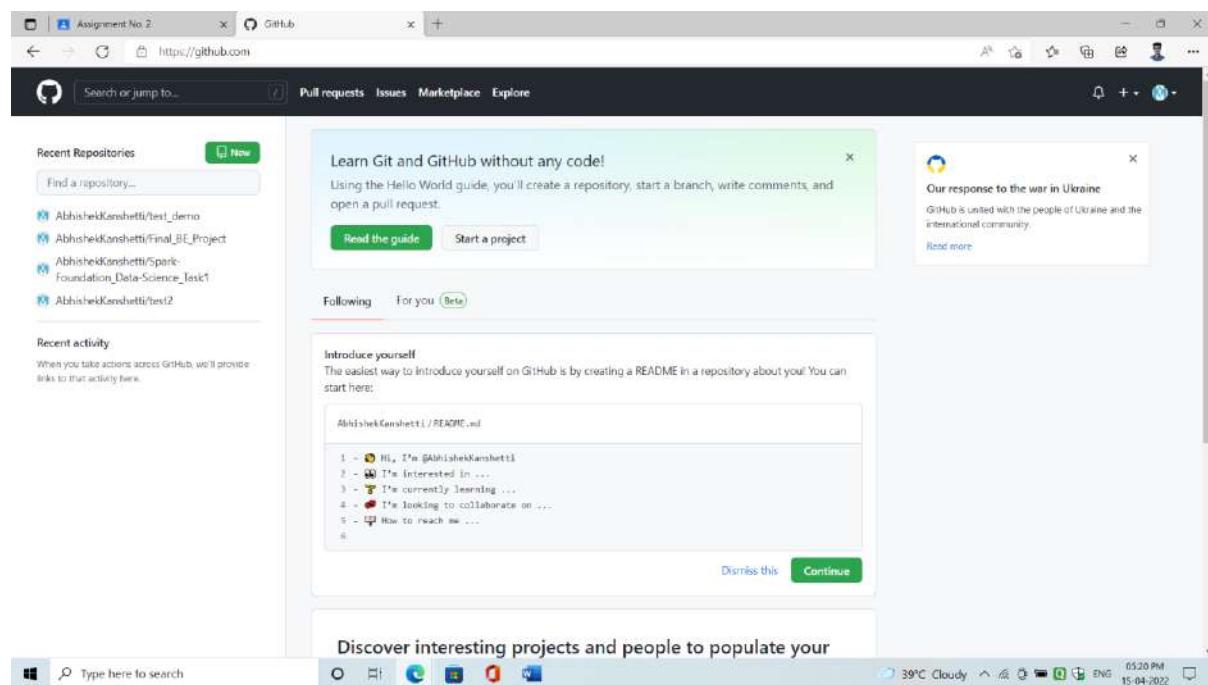
Problem statement:

Implement GitHub operations.

- i) Create a Repository
- ii) Create a Branch
- iii) Make a commit
- iv) Open and Merge Pull request

Output Screenshots:

i) Create a Repository



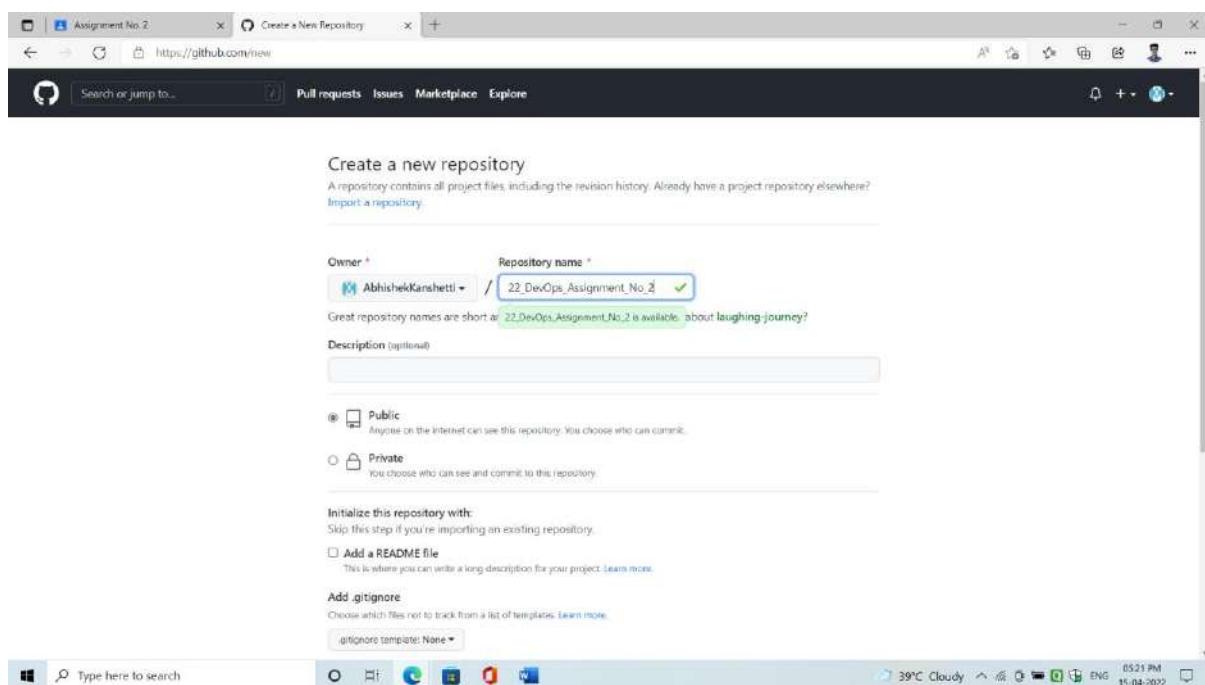
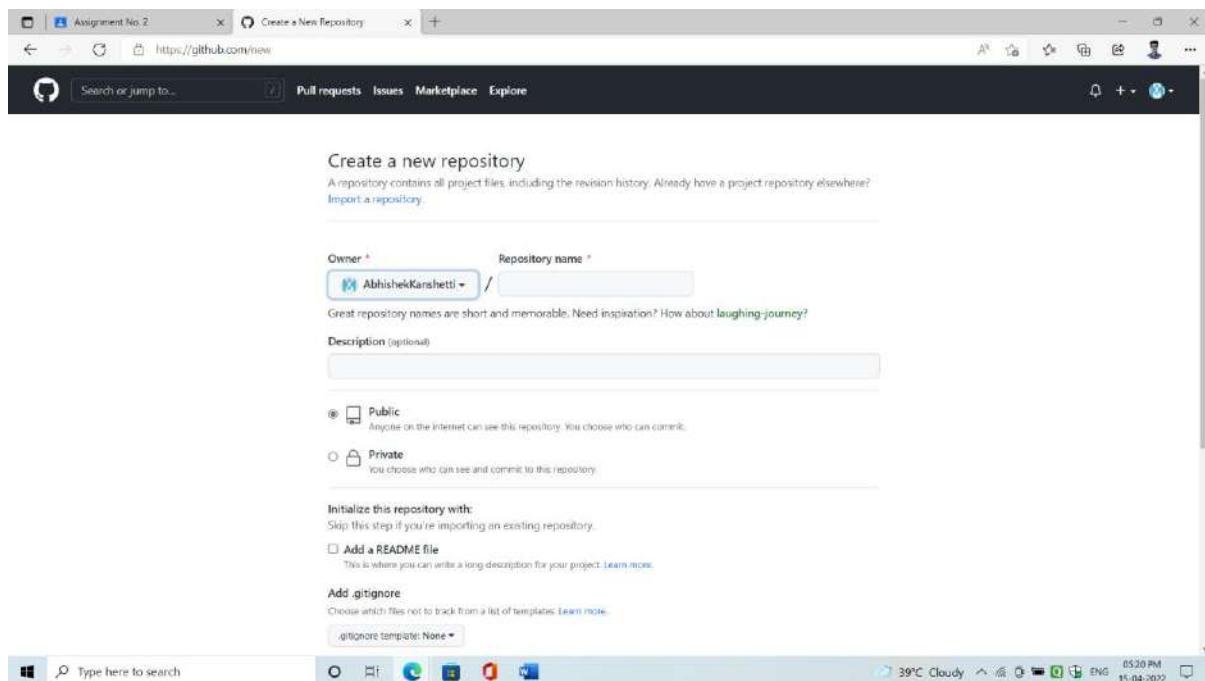
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 2

Title: Implement GitHub Operations



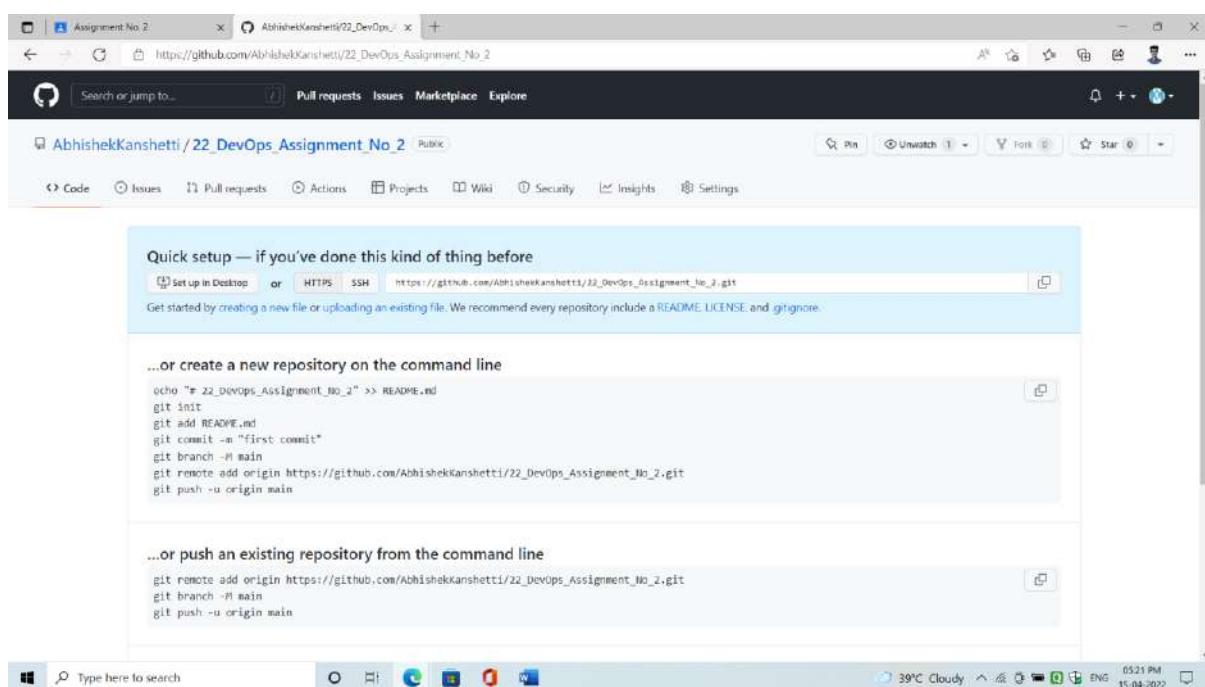
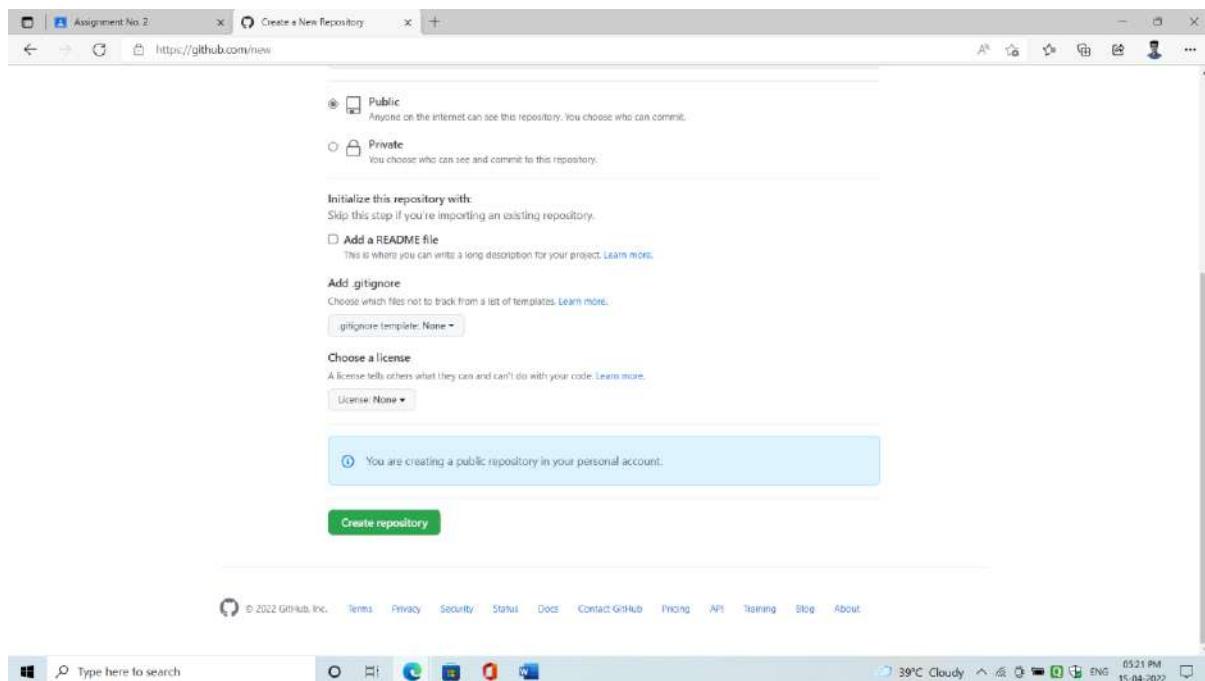
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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 2

Title: Implement GitHub Operations



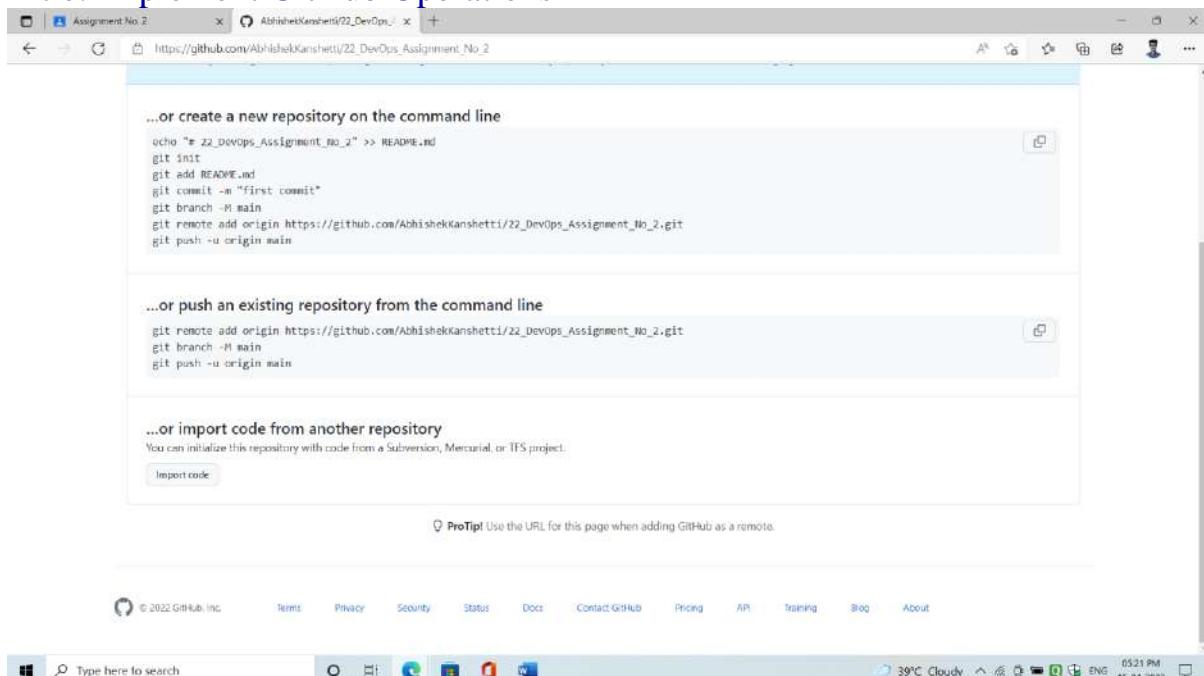
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Roll No: 22

ASSIGNMENT NO: 2

Title: Implement GitHub Operations



...or create a new repository on the command line

```
echo "# 22_DevOps_Assignment_No_2" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
git branch -M main
git push -u origin main
```

...or import code from another repository

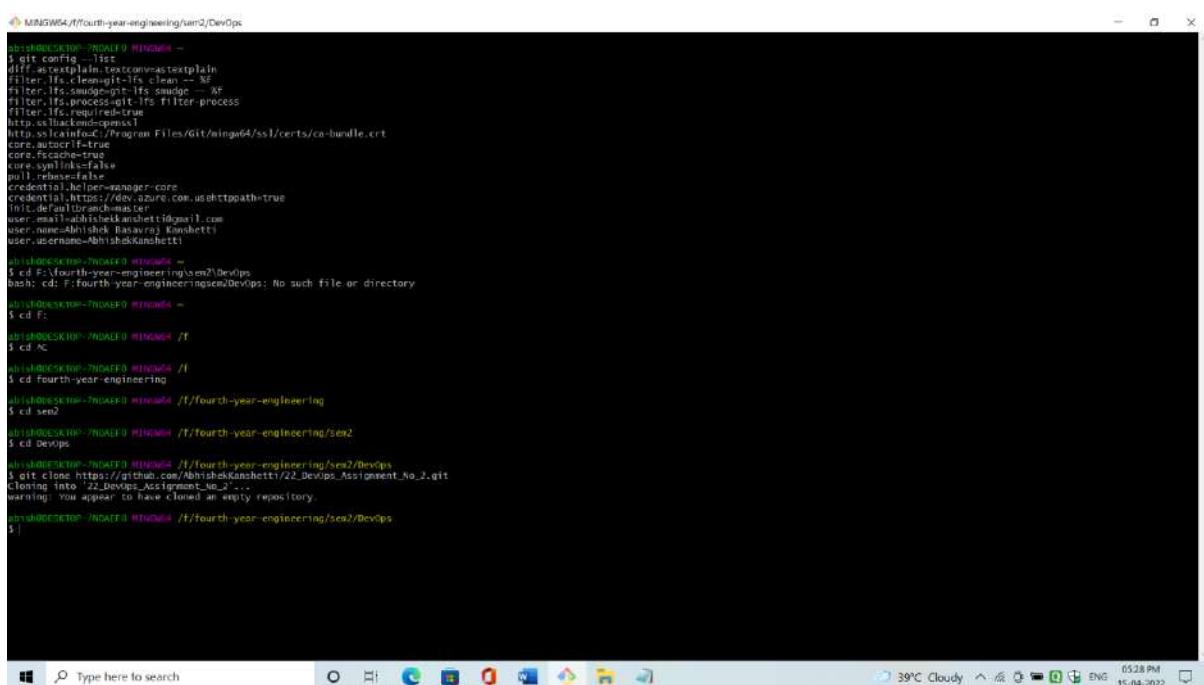
You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

ProTip! Use the URL for this page when adding GitHub as a remote.

iii) Make a commit

Cloning the Repository: -



```
MINGW64 /f/fourth-year-engineering/sem2/DevOps
$ git config --global http.https://github.com.usehttppath true
$ git clone https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
Cloning into '22_DevOps_Assignment_No_2...'...
warning: You appear to have cloned an empty repository.
$ cd 22_DevOps_Assignment_No_2
$
```

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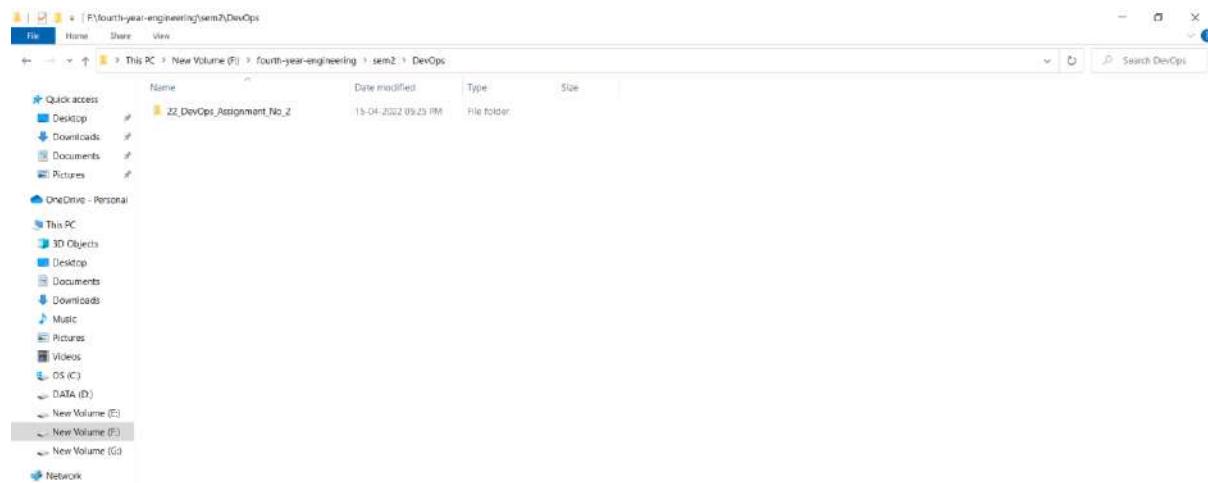
Name: Abhishek Basavraj Kanshetti

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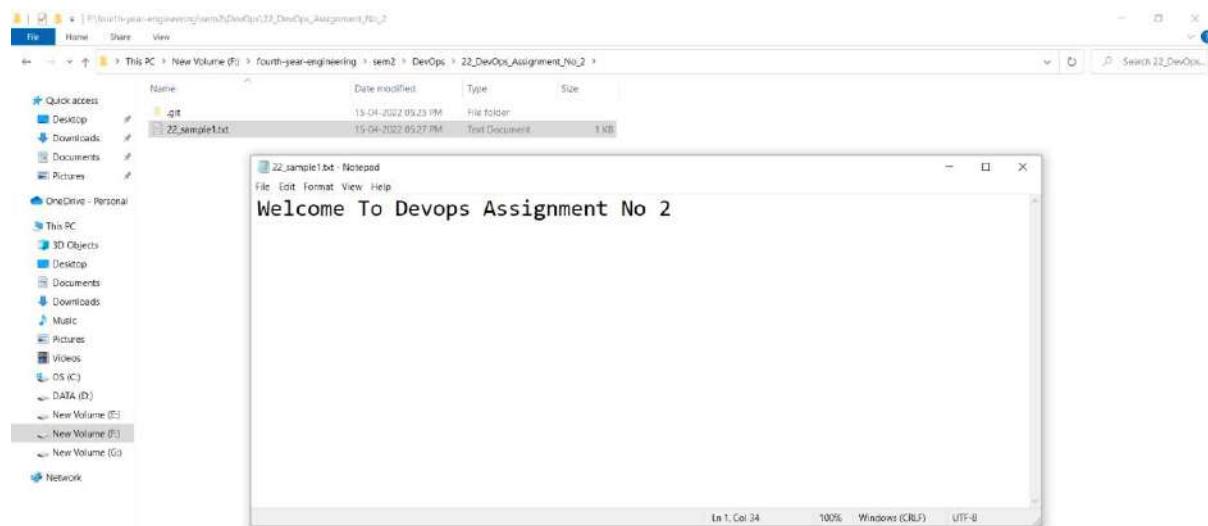
ASSIGNMENT NO: 2

Title: Implement GitHub Operations

After cloning: -



Created file 22_sample1.txt: -



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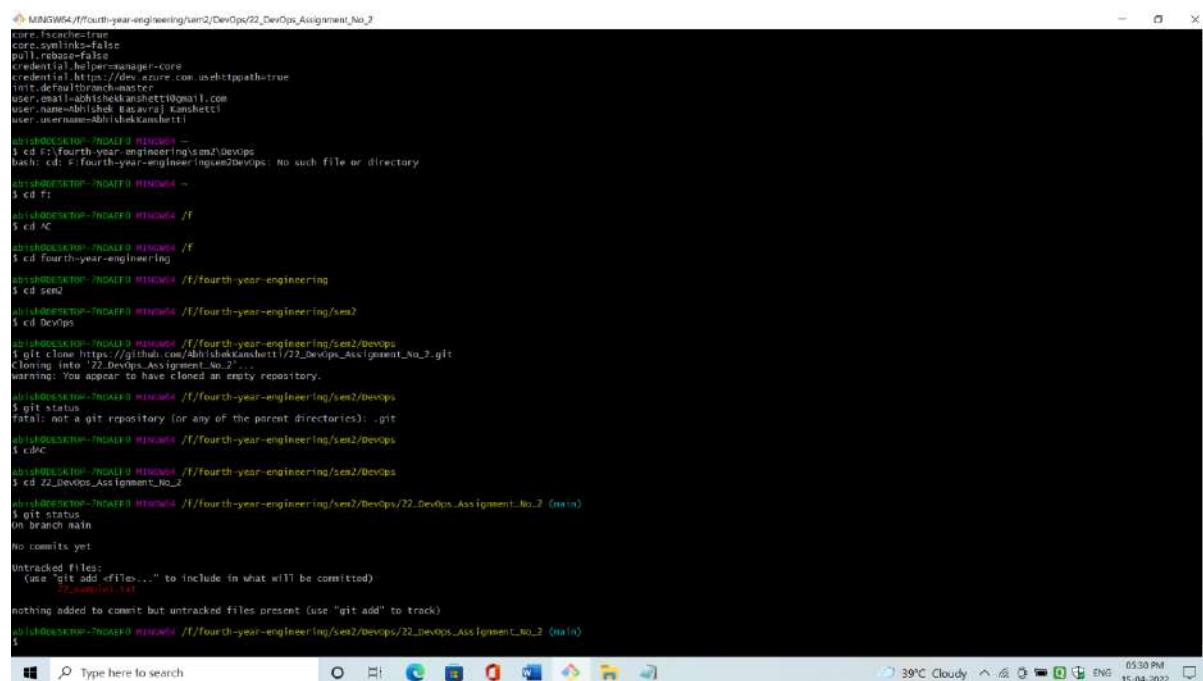
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Title: Implement GitHub Operations

Adding the file: -



```

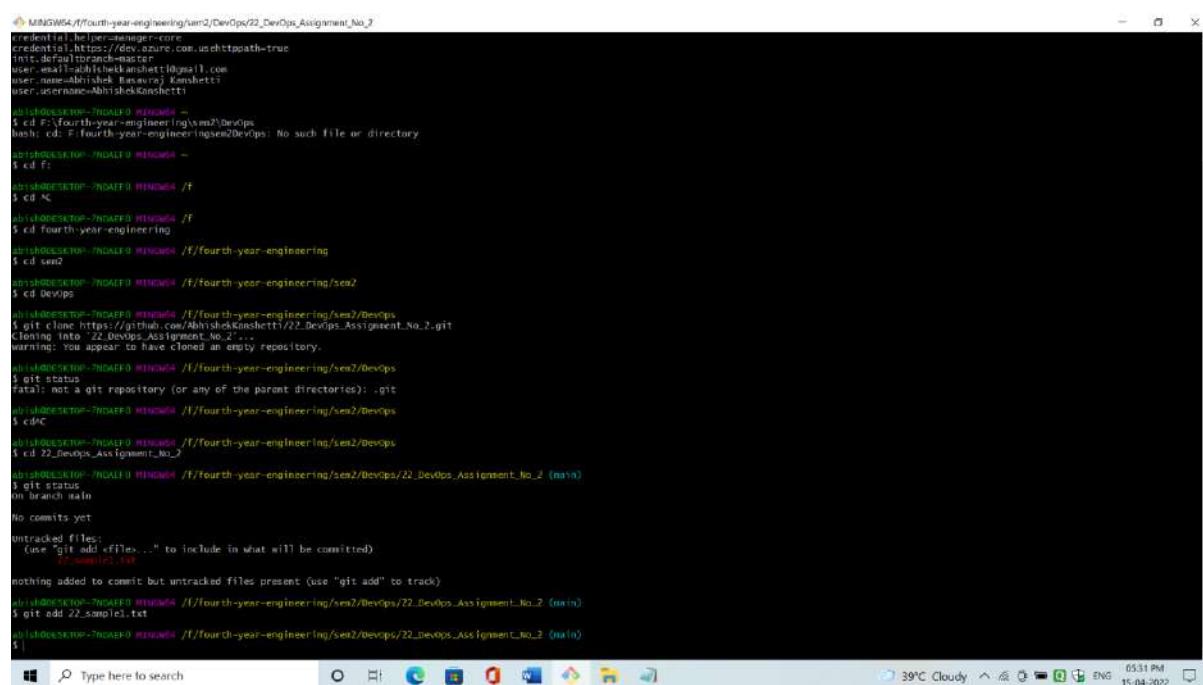
MINGW64:/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2
$ credential_helper=manager
$ core.symlinks=false
$ core.autocrlf=true
$ credential.helper=manager:core
$ credential.http://dev.azure.com/usehttp=true
$ intt.defaultBranch=master
$ user_email=abhishek.kanshetti@gmail.com
$ user_name=Abhishek Basavraj Kanshetti
$ user.username=AbhishekKanshetti

abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ cd /f/fourth-year-engineering/sem2/DevOps; no such file or directory
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps ~
$ cd F:
$ cd M:
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps /F:
$ cd Fourth-year-engineering
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering /F:
$ cd sem2
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2
$ cd DevOps
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ git clone https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
Cloning into '22_DevOps_Assignment_No_2'...
warning: You appear to have cloned an empty repository.

abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ git status
fatal: not a git repository (or any of the parent directories): .git
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ cd C:
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ cd 22_DevOps_Assignment_No_2
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git status
On branch main
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore(.txt)

nothing added to commit but untracked files present (use "git add" to track)
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ 

```



```

MINGW64:/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2
$ credential_helper=manager
$ core.symlinks=false
$ core.autocrlf=true
$ credential.helper=manager:core
$ credential.http://dev.azure.com/usehttp=true
$ intt.defaultBranch=master
$ user_email=abhishek.kanshetti@gmail.com
$ user_name=Abhishek Basavraj Kanshetti
$ user.username=AbhishekKanshetti

abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ cd /f/fourth-year-engineering/sem2/DevOps; no such file or directory
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps ~
$ cd F:
$ cd M:
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps /F:
$ cd Fourth-year-engineering
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering /F:
$ cd sem2
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2
$ cd DevOps
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ git clone https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
Cloning into '22_DevOps_Assignment_No_2'...
warning: You appear to have cloned an empty repository.

abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ git status
fatal: not a git repository (or any of the parent directories): .git
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ cd C:
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps
$ cd 22_DevOps_Assignment_No_2
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git status
On branch main
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore(.txt)

nothing added to commit but untracked files present (use "git add" to track)
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git add 22.sample1.txt
abhishek@abhishek-OptiPlex-5090:~/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ 

```

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Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 2

Roll No: 22

Title: Implement GitHub Operations

```
MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2

abishashisekhar-704aff9 MINGW64 ~
$ cd f:/fourth-year-engineering/sem2/DevOps
bash: cd: f:/fourth-year-engineering/sem2/DevOps: no such file or directory
abishashisekhar-704aff9 MINGW64 ~
$ cd f:
abishashisekhar-704aff9 MINGW64 /f
$ cd AC
abishashisekhar-704aff9 MINGW64 /f
$ cd Fourth-year-engineering
abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering
$ cd sem2
abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering/sem2
$ cd DevOps
abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering/sem2/DevOps
$ git clone https://github.com/abishashisekhar/22_DevOps_Assignment_No_2.git
Cloning into '22_DevOps_Assignment_No_2'...
warning: You appear to have cloned an empty repository.

$ cd 22_DevOps_Assignment_No_2
abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering/sem2/DevOps
$ git status
fatal: not a git repository (or any of the parent directories): .git
abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering/sem2/DevOps
$ cd C:\C
abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering/sem2/DevOps
$ cd 22_DevOps_Assignment_No_2
abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git status
On branch main
No commits yet

Untracked Files:
  (use "git add <file...>" to include in what will be committed)
    22_sample1.txt

nothing added to commit but untracked files present (use "git add" to track)

abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git add 22_sample1.txt

abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git commit -m "Committing 22_sample1.txt file"
[main (root-commit) 8987ca] Committing 22_sample1.txt file
 1 file changed, 3 insertion(s)
 create mode 100644 22_sample1.txt
abishashisekhar-704aff9 MINGW64 ./f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$
```

Pushing the file: -

```
MINGW64:/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2
$ cd ..
abhishek@abhishek-OptiPlex-5090:~/Downloads$ rm -rf .git
$ cd Fourth-year-engineering
abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering$ 
$ cd sem2
abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering/sem2$ 
$ cd DevOps
abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering/sem2/DevOps$ 
$ git clone https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
Cloning into '22_DevOps_Assignment_No_2'...
warning: You appear to have cloned an empty repository.

abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering/sem2/DevOps$ 
$ git status
# On branch main
#   nothing to commit, working directory clean

abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering/sem2/DevOps$ 
$ cd 22_DevOps_Assignment_No_2
abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2$ 
$ git status
On branch main
nothing added to commit but untracked files present (use "git add" to track)

abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2$ 
$ git add 22_sample1.txt
abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2$ 
$ git commit -m "Committing 22_sample1.txt file"
[master 8997ca] Committing 22_sample1.txt file
 1 file changed, 1 insertion(+)
 create mode 100644 22_sample1.txt
abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2$ 
$ git push
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 278 bytes | 278.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
 * [new branch]      master -> master
abhishek@abhishek-OptiPlex-5090:~/Fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2$ 
$ 
```

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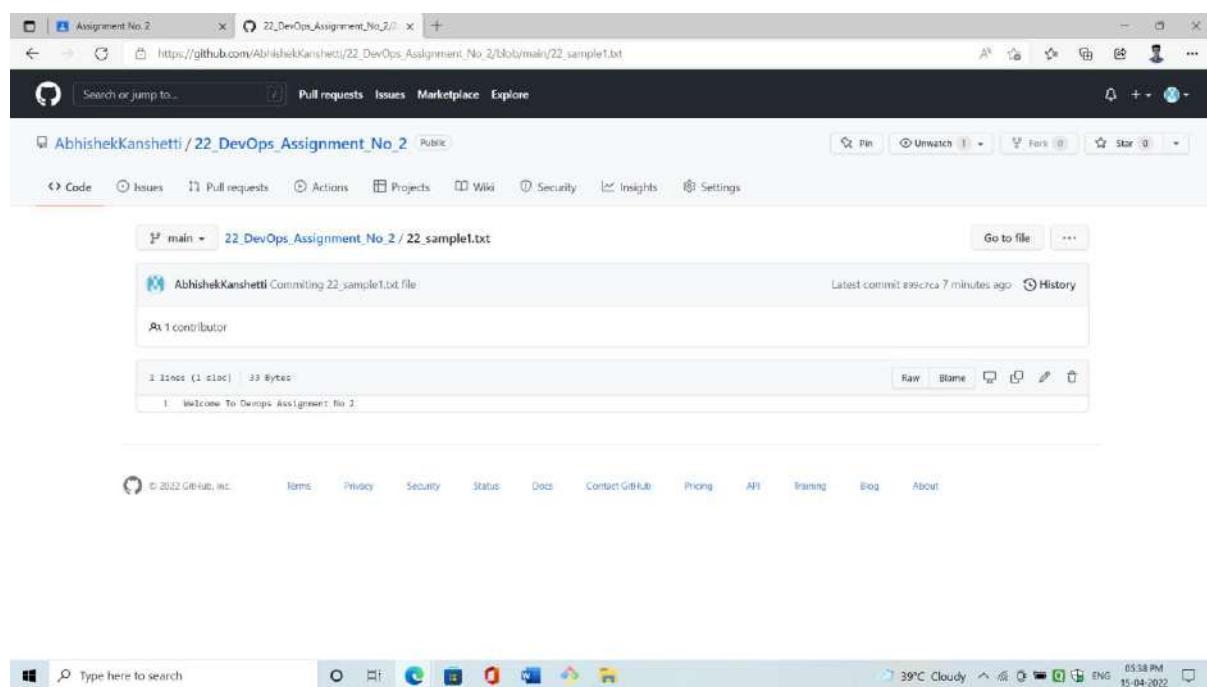
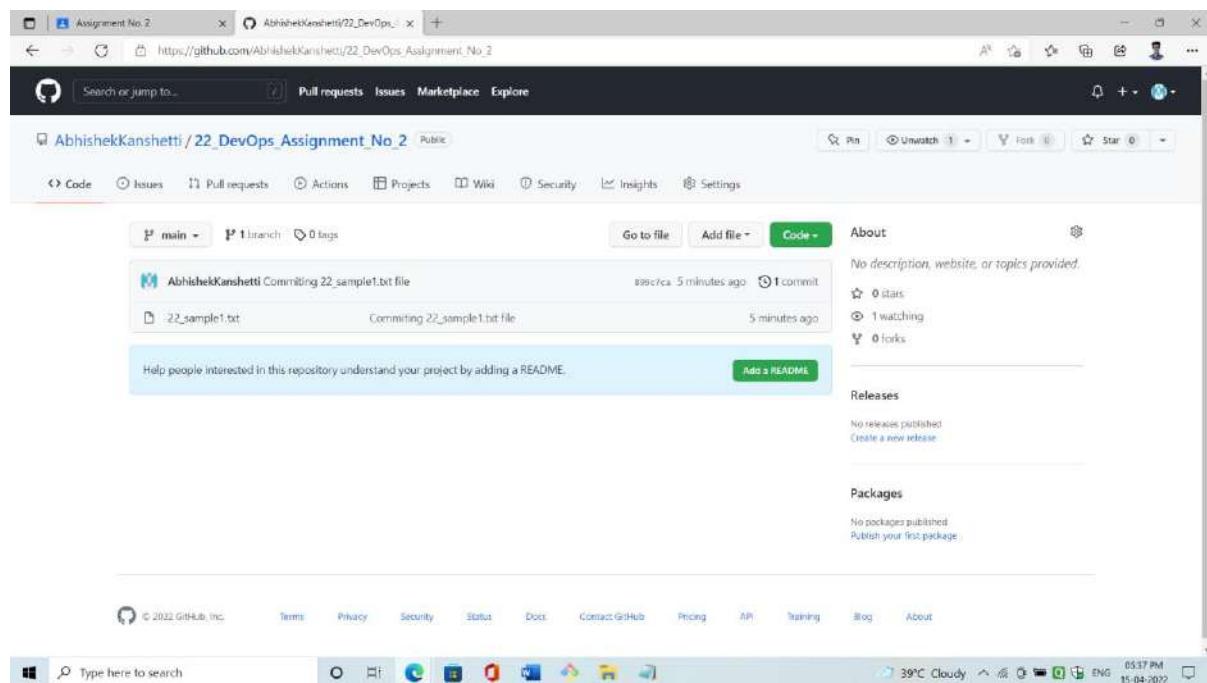
Name: Abhishek Basavraj Kanshetti

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After pushing: -



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Name: Abhishek Basavraj Kanshetti

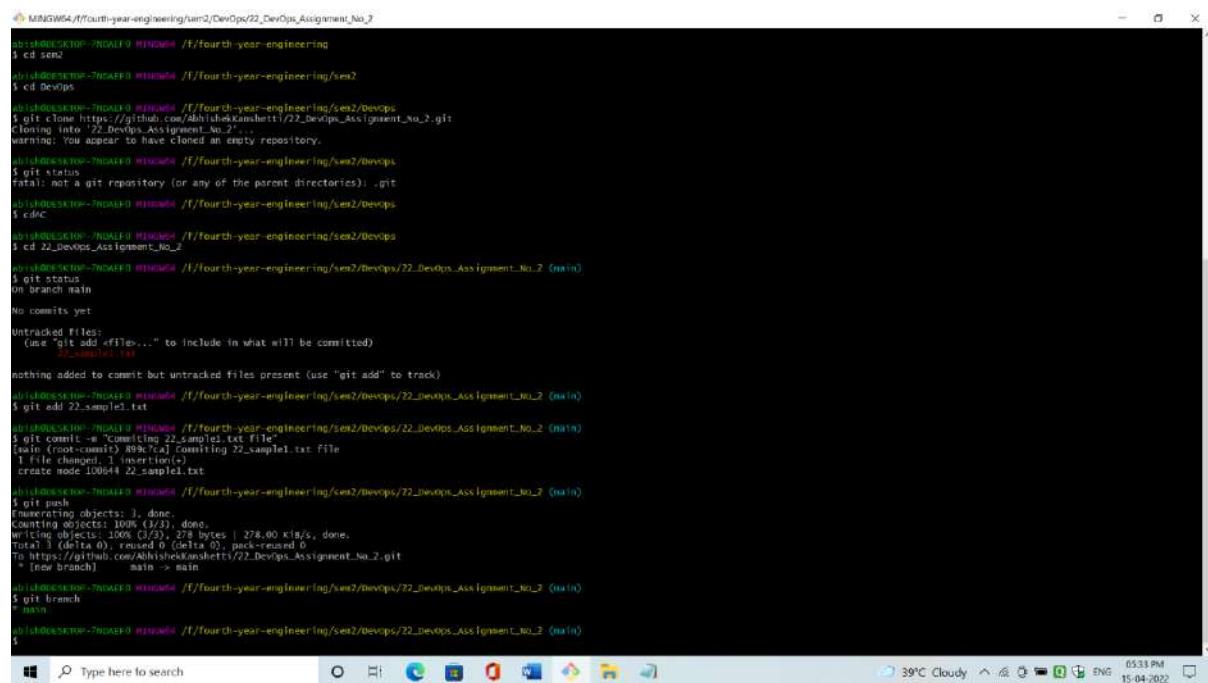
Roll No: 22

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ii) Create a Branch

Branches present current: -



```
$ MINGW64 / /fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2
$ cd sem2
$ cd DevOps
$ git clone https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
Cloning into '22_DevOps_Assignment_No_2'...
warning: You appear to have cloned an empty repository.
$ git status
fatal: not a git repository (or any of the parent directories): .git
$ cd ..
$ cd 22_DevOps_Assignment_No_2
$ git status
On branch main
nothing to commit, working directory clean
$ git add 22_sample1.txt
nothing added to commit but untracked files present (use "git add" to track)
$ git commit -m "Committing 22_sample1.txt file"
[main (root-commit) 899c7ca] Committing 22_sample1.txt file
 1 file changed, 1 insertion(+)
 create mode 100644 22_sample1.txt
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 278 bytes | 278.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
 * [new branch] main -> main
$ git branch
* main
$
```

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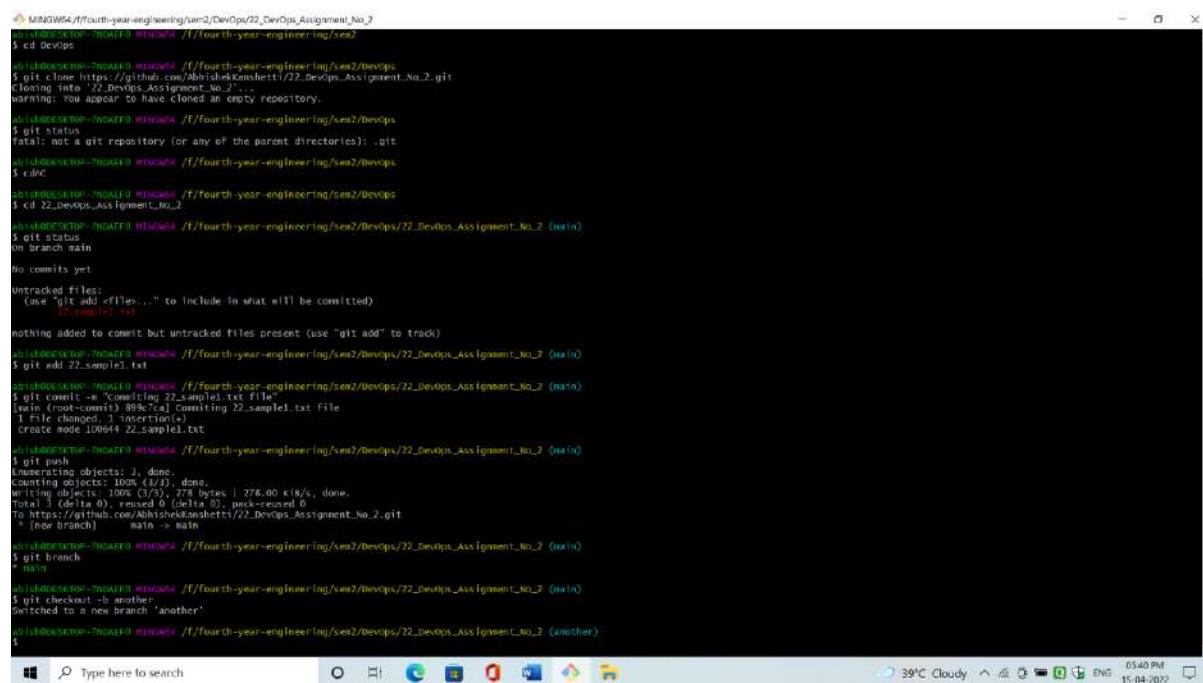
Name: Abhishek Basavraj Kanshetti

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Creating new branch named “another”: -



```

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2
$ cd DevOps
$ git clone https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
Cloning into '22_DevOps_Assignment_No_2'...
warning: You appear to have cloned an empty repository.

MINGW64 /f/fourth-year-engineering/sem2/DevOps
$ git status
fatal: not a git repository (or any of the parent directories): .git

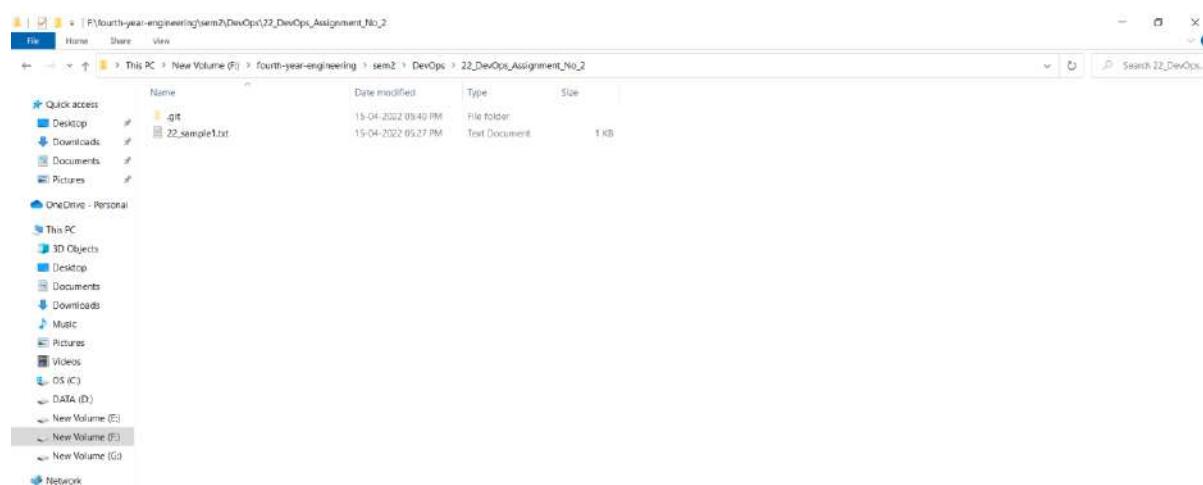
MINGW64 /f/fourth-year-engineering/sem2/DevOps
$ cd ..
$ cd 22_DevOps_Assignment_No_2
$ git status
On branch main
No commits yet
Untracked files:
  (use "git add <file>" to include in what will be committed)
    22_sample1.txt

nothing added to commit but untracked files present (use "git add" to track)

$ git add 22_sample1.txt
$ git commit -m "Committing 22_sample1.txt file"
[main (root-commit) 899c7ca] Committing 22_sample1.txt file
 1 file changed, 1 insertion(+)
 create mode 100644 22_sample1.txt

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 278 bytes | 278.00 KiB/s, done.
Total 3 (delta 0), reused 0 from cache
To https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
 * [new branch]  main -> main

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git branch
* main
MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git checkout -b another
Switched to a new branch: 'another'
MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (another)
$
```



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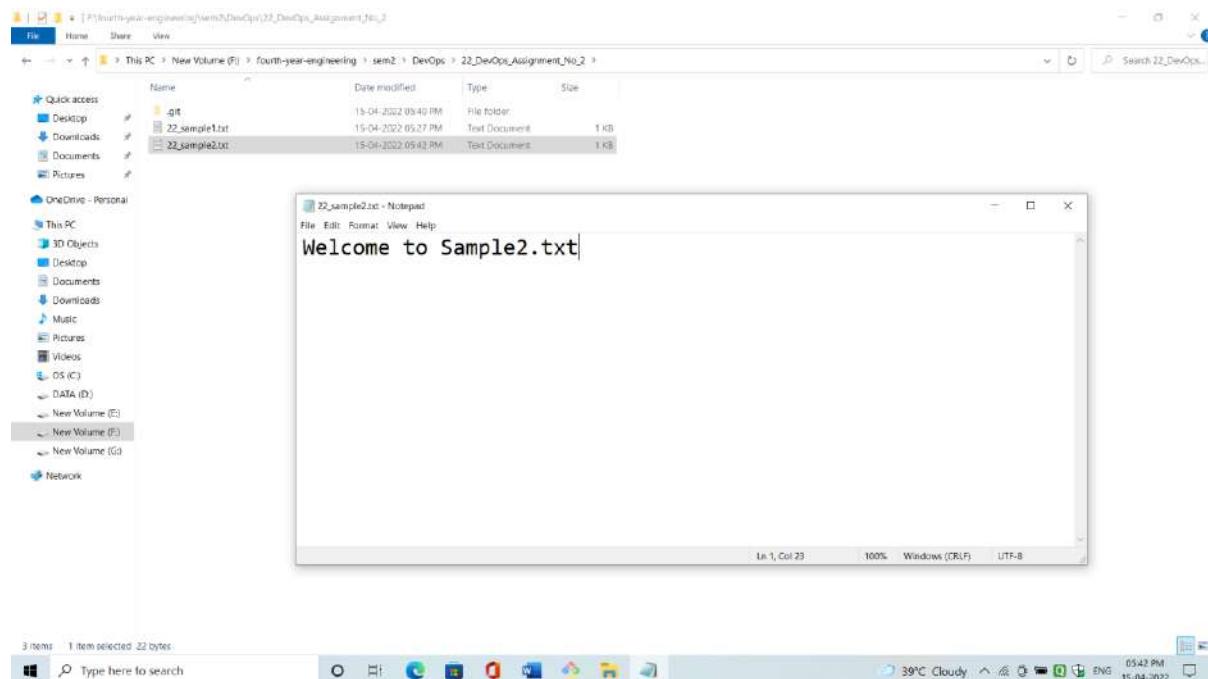
Name: Abhishek Basavraj Kanshetti

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Creating new file named “22_sample2.txt”: -



Adding the file: -

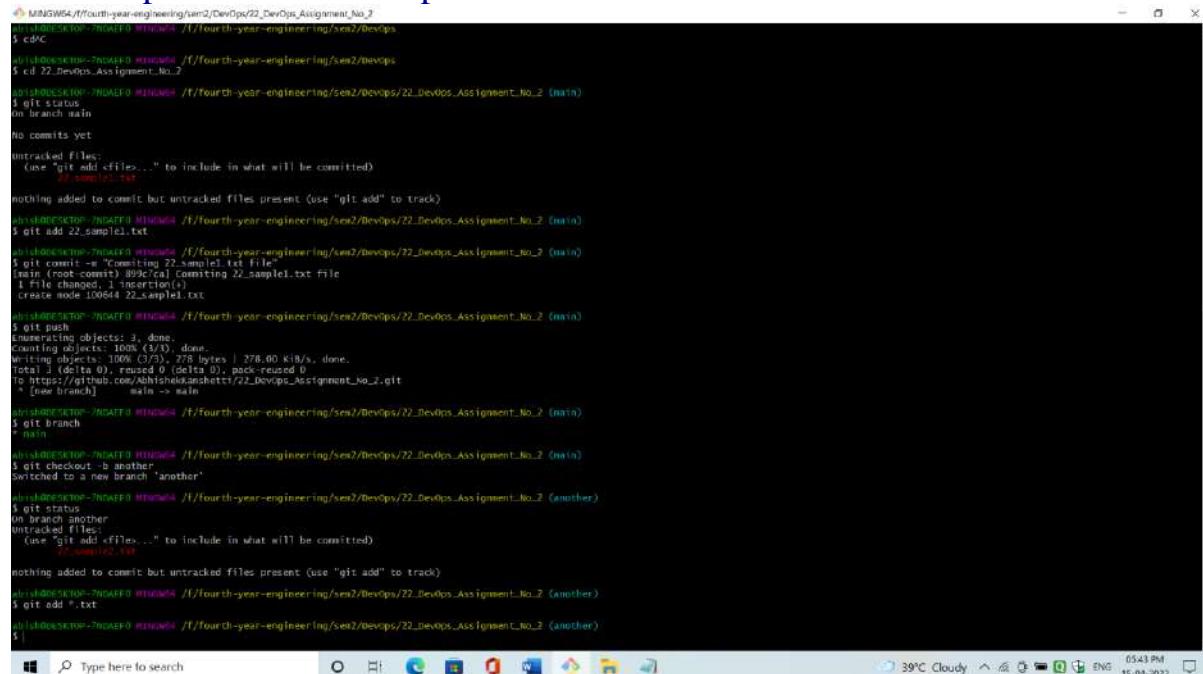
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ASSIGNMENT NO: 2

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```

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2
$ cd ..
$ cd DevOps
$ cd 22_DevOps_Assignment_No_2
$ cd ..
$ cd 22_DevOps_Assignment_No_2
$ git status
On branch main

No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore.txt

nothing added to commit but untracked files present (use "git add" to track)

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git add 22_sample1.txt

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git commit -m "Committing 22_sample1.txt File"
[main (root-commit) 899c2ca] Committing 22_sample1.txt
 1 file changed, 1 insertion(+)
 create mode 100644 22_sample1.txt

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 278.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
 + [new branch]  main -> main

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git branch
* main

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git checkout -b another
Switched to a new branch 'another'

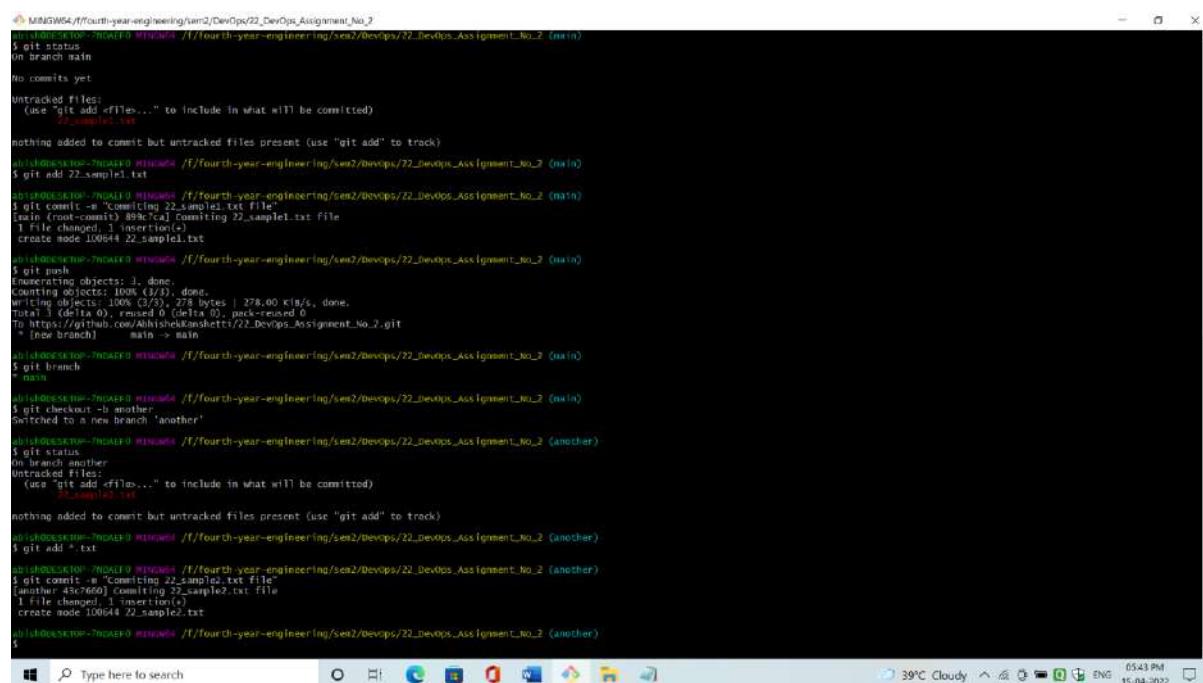
az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (another)
$ git status
On branch another
  nothing to commit, working tree clean

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (another)
$ git add *.txt

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (another)
$ git commit -m "Committing 22_sample1.txt File"
[another 45c7660] Committing 22_sample1.txt
 1 file changed, 1 insertion(+)
 create mode 100644 22_sample1.txt

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (another)
$ 
```

Committing the file: -



```

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2
$ cd ..
$ cd DevOps
$ cd 22_DevOps_Assignment_No_2
$ cd ..
$ cd 22_DevOps_Assignment_No_2
$ git status
On branch main

No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore.txt

nothing added to commit but untracked files present (use "git add" to track)

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git add 22_sample1.txt

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git commit -m "Committing 22_sample1.txt File"
[main (root-commit) 899c2ca] Committing 22_sample1.txt
 1 file changed, 1 insertion(+)
 create mode 100644 22_sample1.txt

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 278.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
 + [new branch]  main -> main

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git branch
* main

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (main)
$ git checkout -b another
Switched to a new branch 'another'

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (another)
$ git status
On branch another
  nothing to commit, working tree clean

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (another)
$ git add *.txt

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (another)
$ git commit -m "Committing 22_sample1.txt File"
[another 45c7660] Committing 22_sample1.txt
 1 file changed, 1 insertion(+)
 create mode 100644 22_sample1.txt

az13904:/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2 (another)
$ 
```

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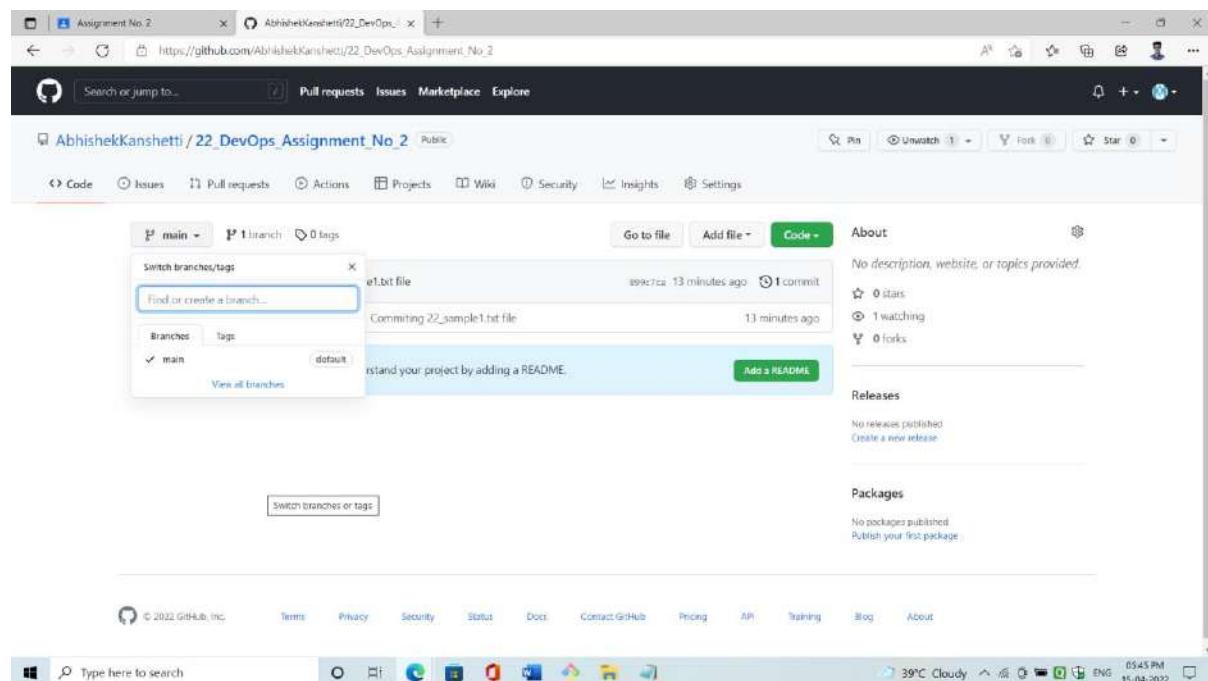
Name: Abhishek Basavraj Kanshetti

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ASSIGNMENT NO: 2

Title: Implement GitHub Operations

Before pushing: -



Pushing the file with origin as branch named “another”: -

```

$ MINGW64 ~/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_2
$ git commit -m "Committing 22_sample1.txt file"
[origin (new branch) 999e0f9] Committing 22_sample1.txt file
 1 file changed, 1 insertion(+)
 create mode 100644 22_sample1.txt

$ git push origin another
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 278 bytes | 278.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
 * [new branch]  main -> main
create 999e0f9 22_sample1.txt

$ git branch -a
* main
another

$ git checkout -b another
Switched to branch 'another'

$ git status
On branch another
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    22_sample1.txt

nothing added to commit but untracked files present (use "git add" to track)

$ git add .
$ git commit -m "Committing 22_sample2.txt file"
[another 43c690] Committing 22_sample2.txt File
 1 file changed, 1 insertion(+)
 create mode 100644 22_sample2.txt

$ git push origin another
Counting objects: 4, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 326 bytes | 326.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Create a pull request for 'another' on GitHub by visiting:
remote:   https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2/pull/new/another
remote:
To https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_2.git
 * [new branch]  another -> another

$ git checkout main

```

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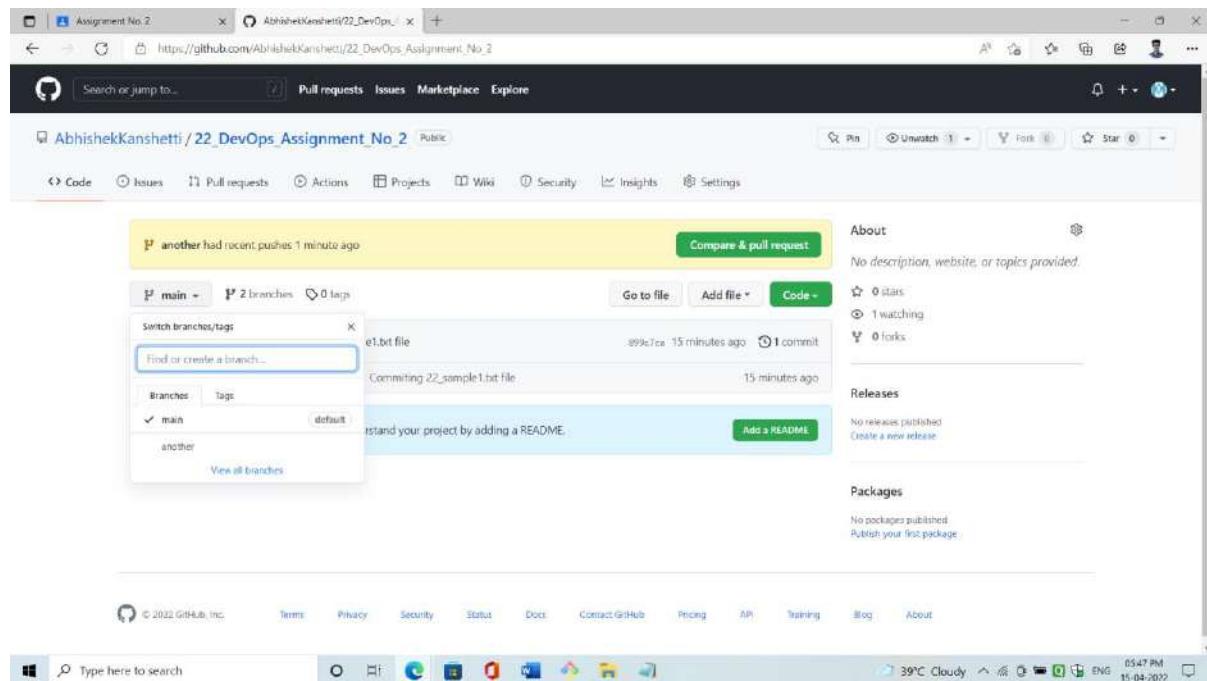
Name: Abhishek Basavraj Kanshetti

Roll No: 22

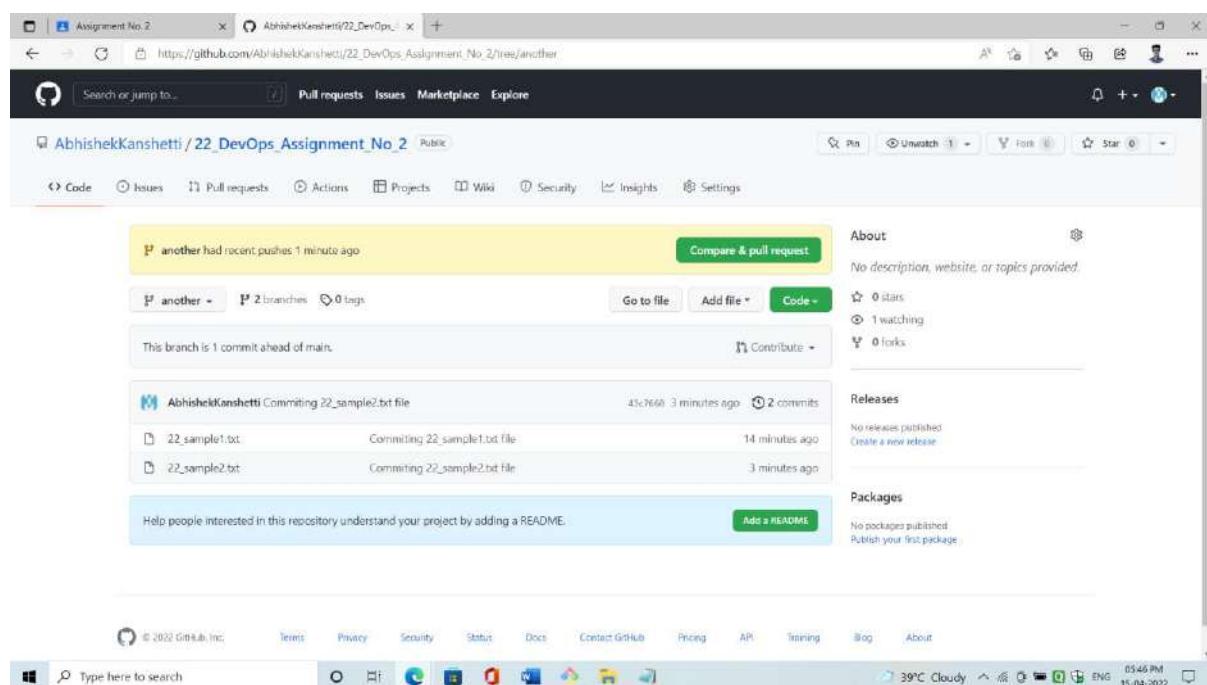
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After Pushing the file: -



Files present in another branch after Pushing: -



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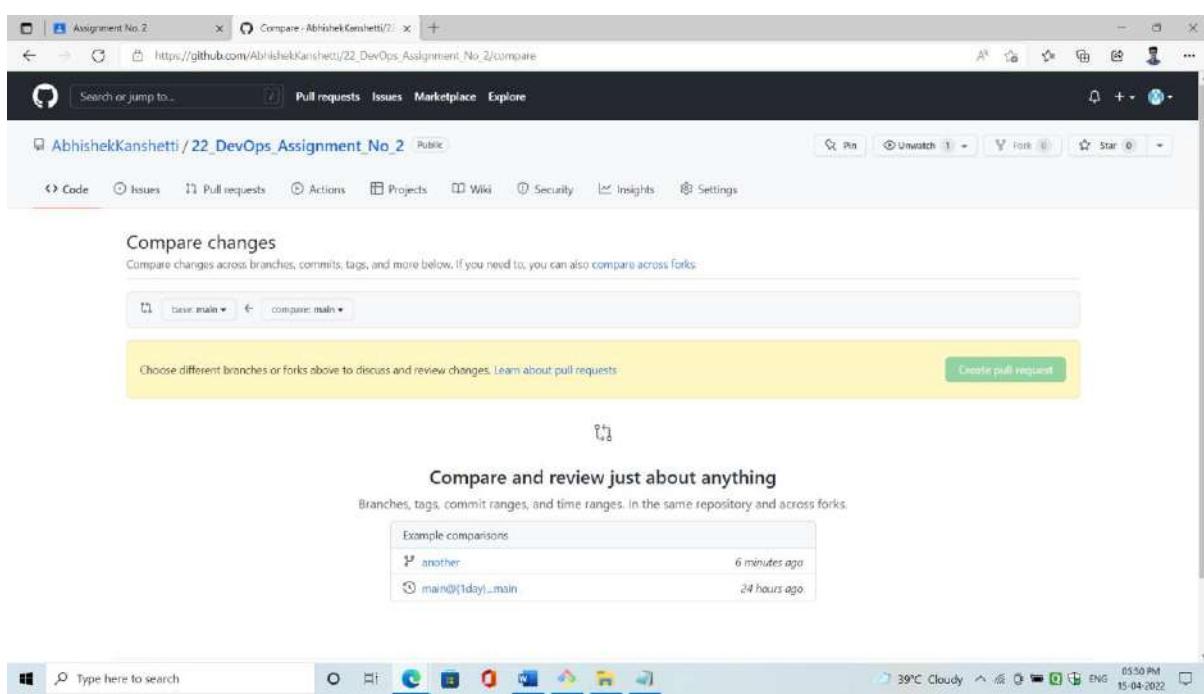
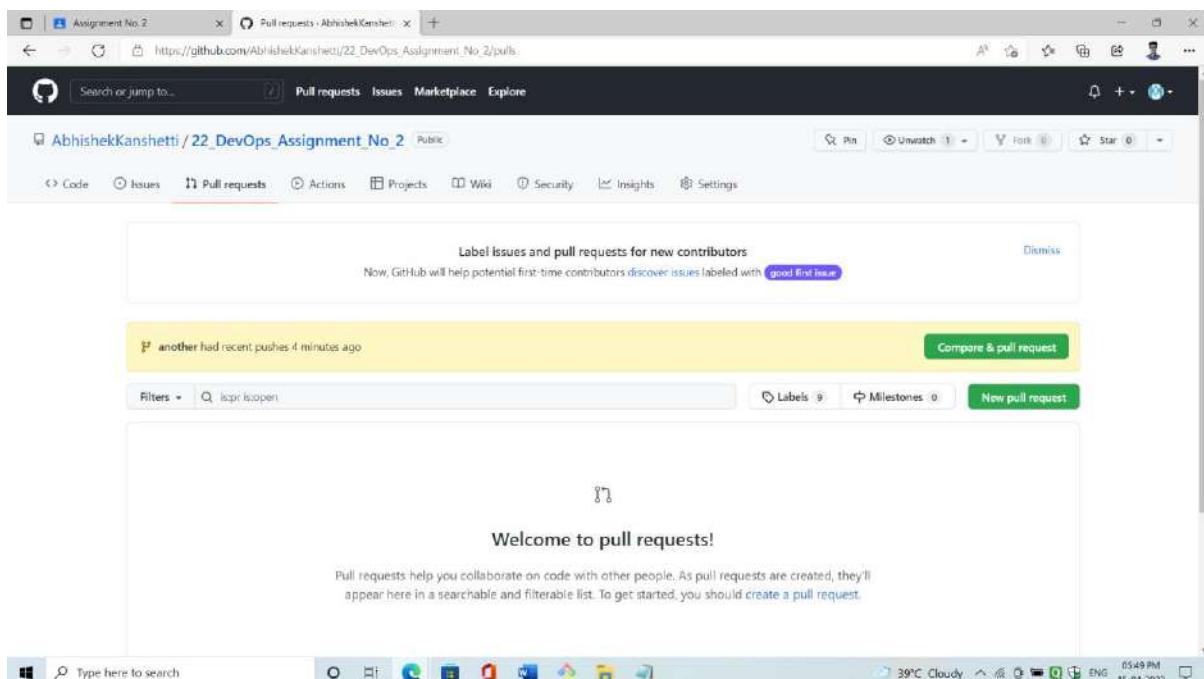
Roll No: 22

ASSIGNMENT NO: 2

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4) Open and Merge pull request

Opening a pull request: -

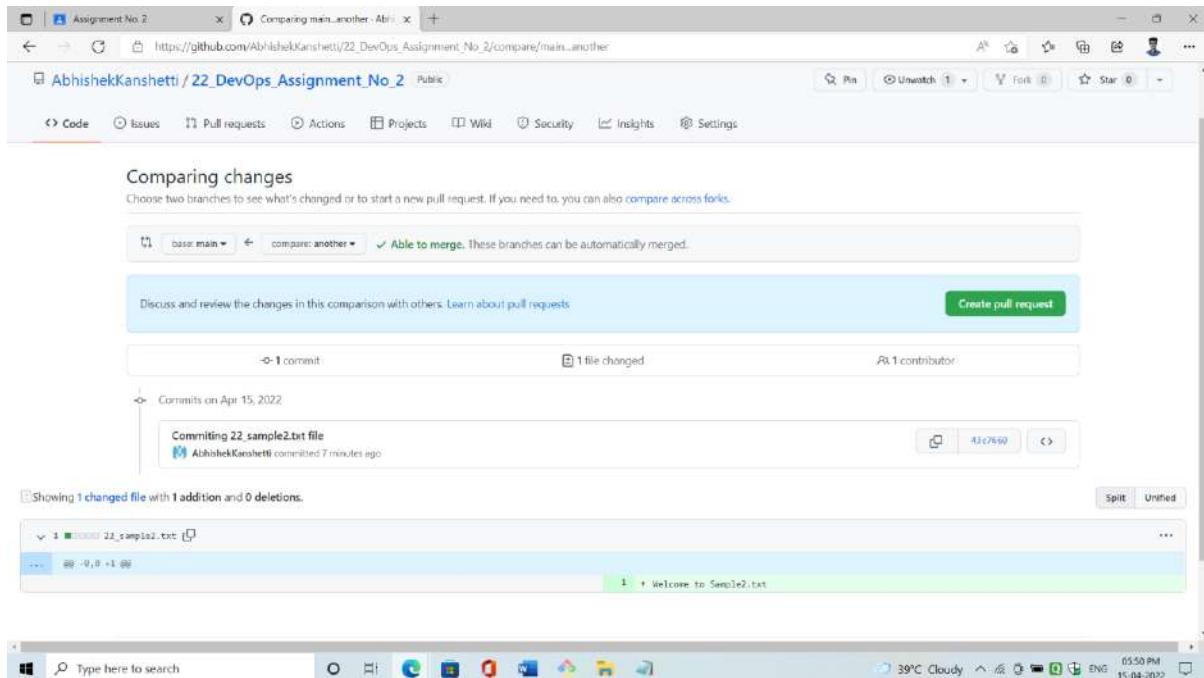


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Roll No: 22

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Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also compare across forks.

base: main ▾ compare: another ▾ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. Learn about pull requests [Create pull request](#)

-o 1 commit 1 file changed 1 contributor

Commits on Apr 15, 2022

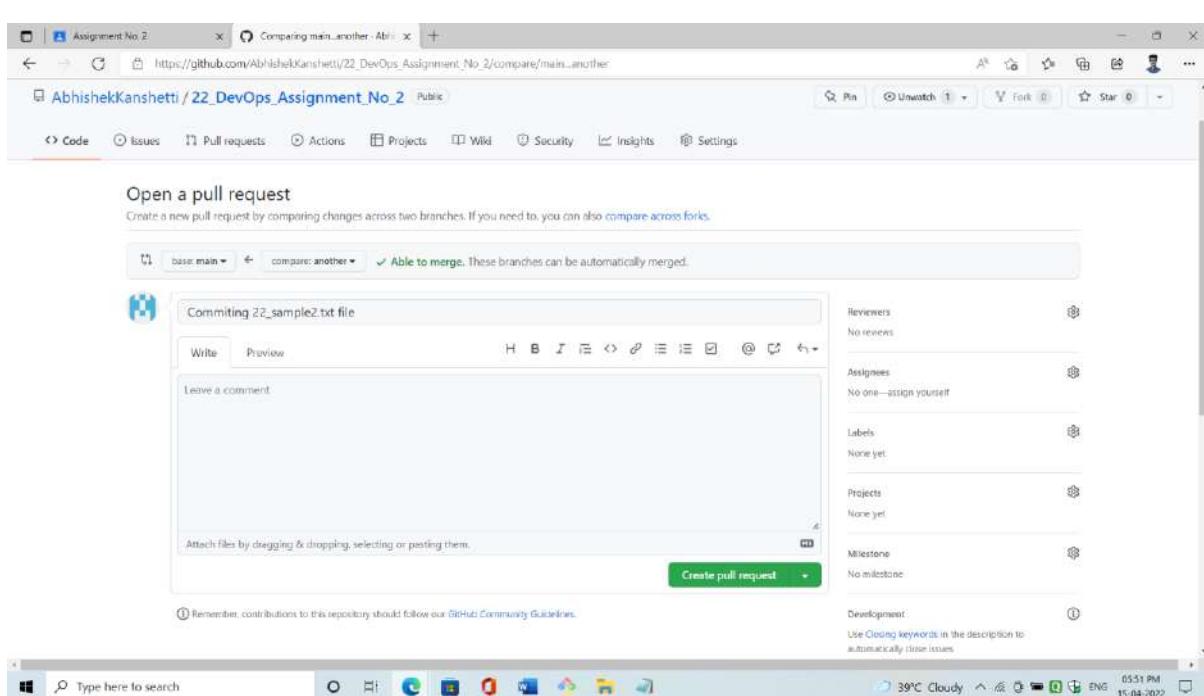
Committing 22_sample2.txt file

AbhishekKanshetti committed 7 minutes ago

Showing 1 changed file with 1 addition and 0 deletions.

22_sample2.txt

1 + Welcome to Sample2.txt



Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks.

base: main ▾ compare: another ▾ Able to merge. These branches can be automatically merged.

Committing 22_sample2.txt file

Write Preview

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

Reviewers: No reviews

Assignees: No one—assign yourself

Labels: None yet

Projects: None yet

Milestone: No milestone

Development: Use closing keywords in the description to automatically close issues.

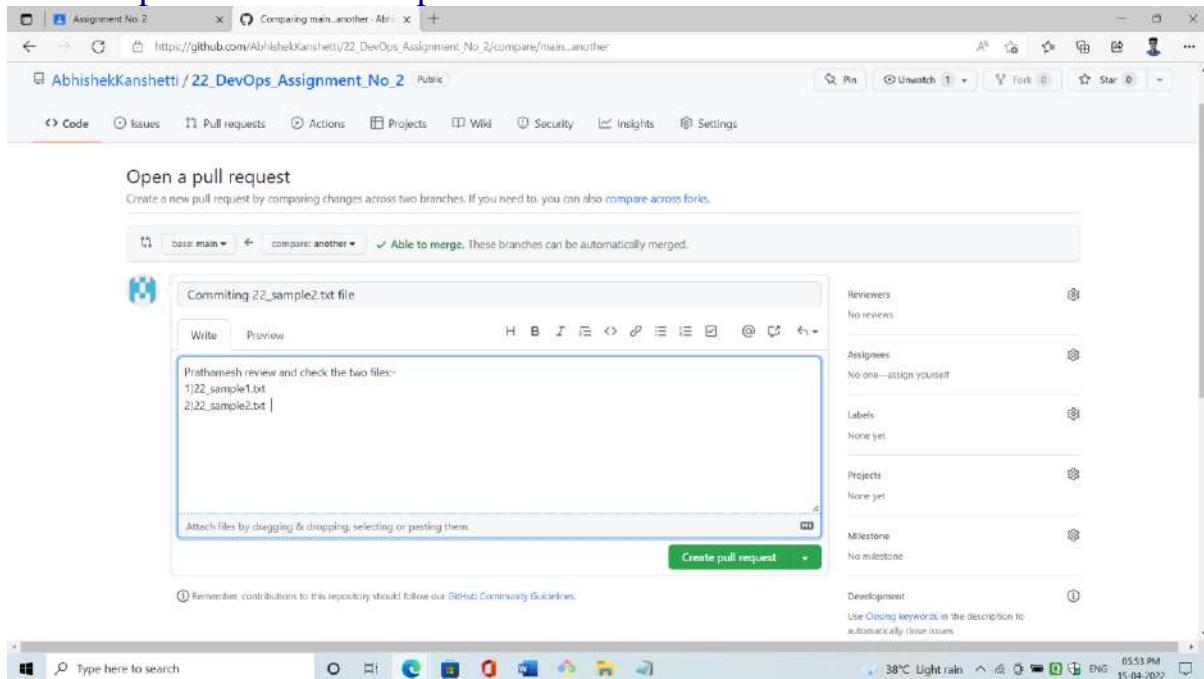
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Name: Abhishek Basavraj Kanshetti

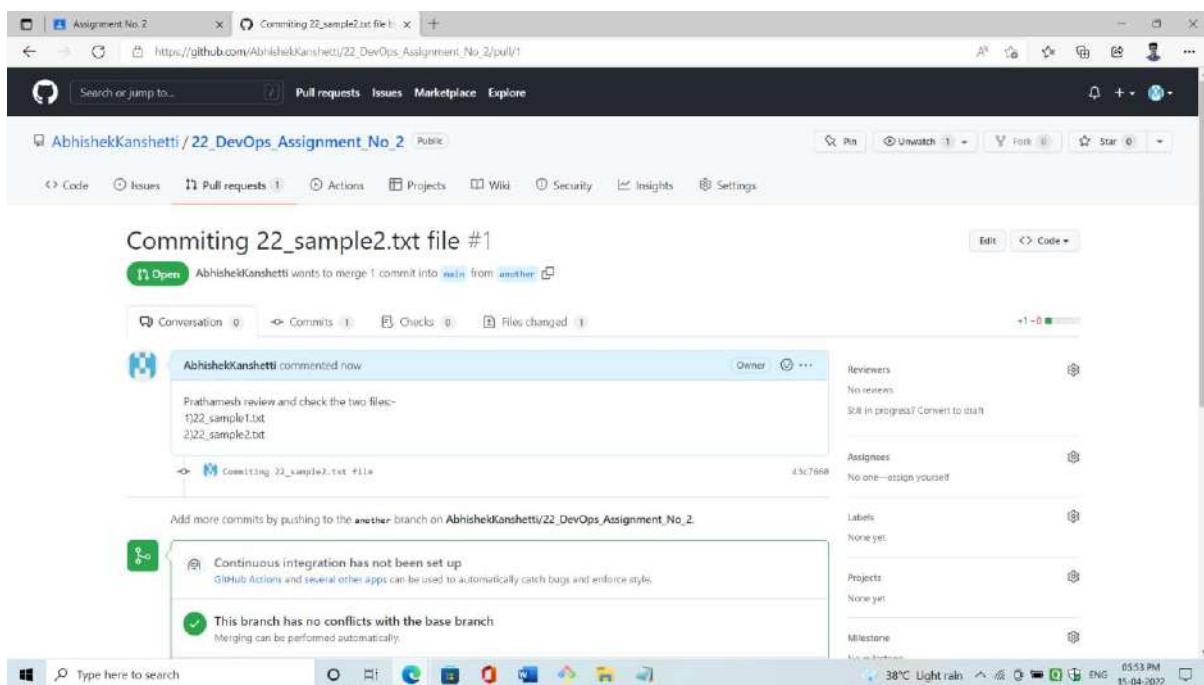
Roll No: 22

ASSIGNMENT NO: 2

Title: Implement GitHub Operations



Opened pull request: -

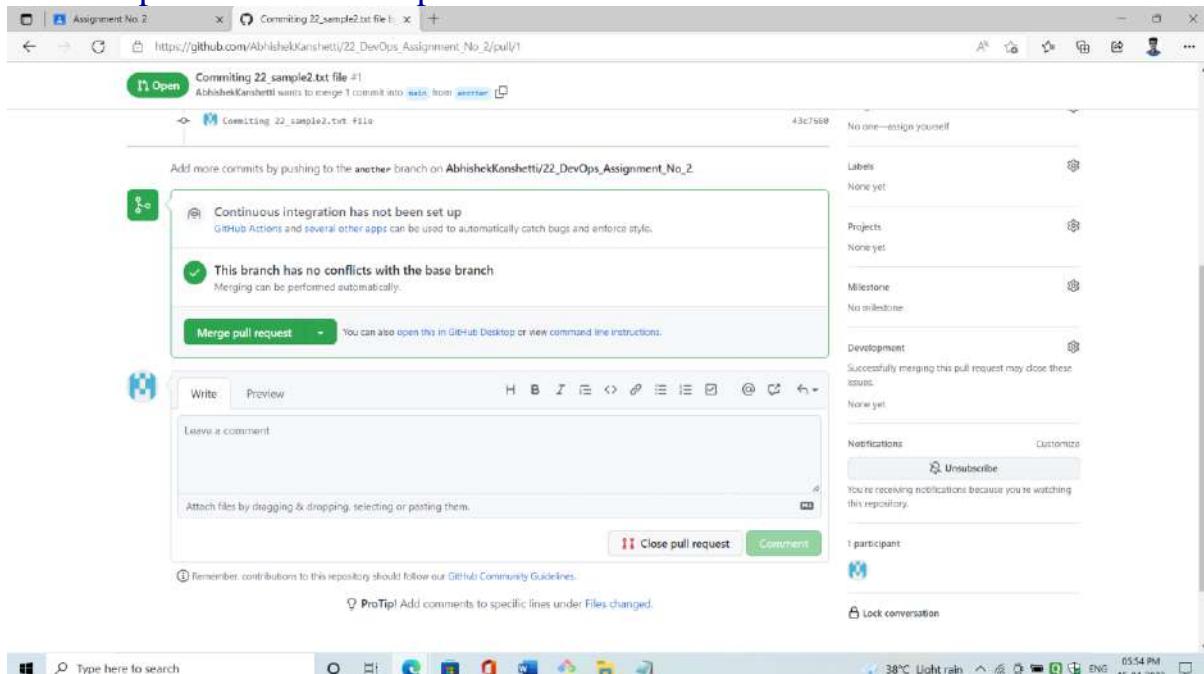


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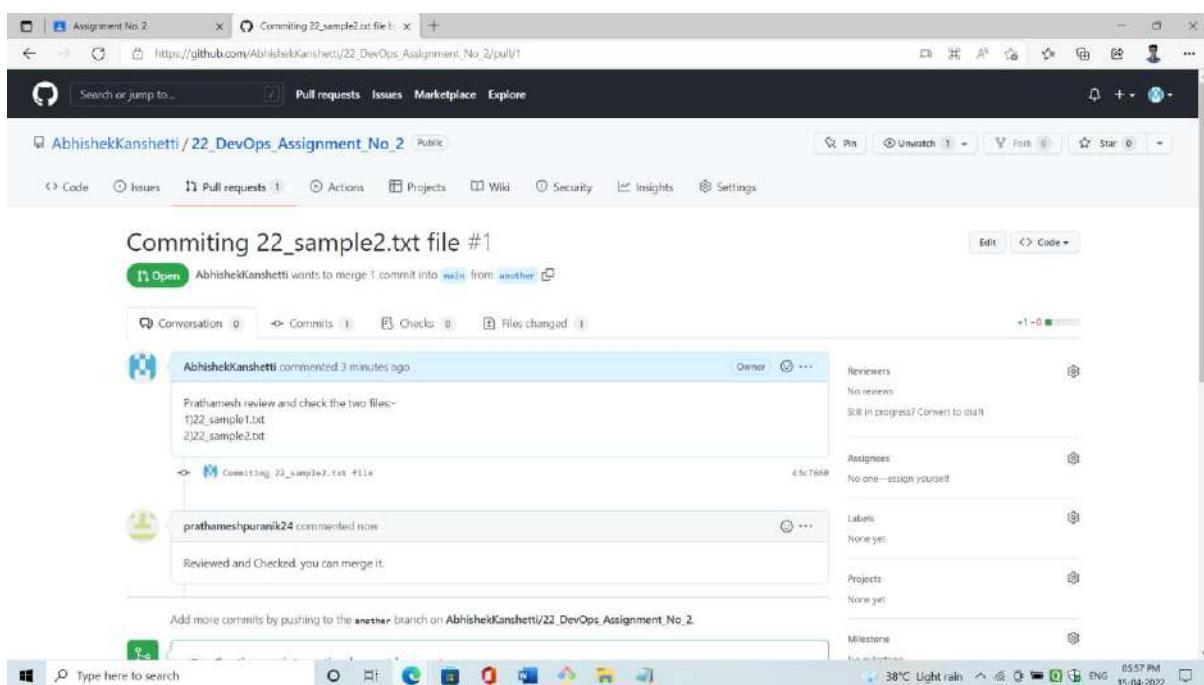
Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 2

Roll No: 22

Title: Implement GitHub Operations



After opening pull request, it is Reviewed by colleague: -

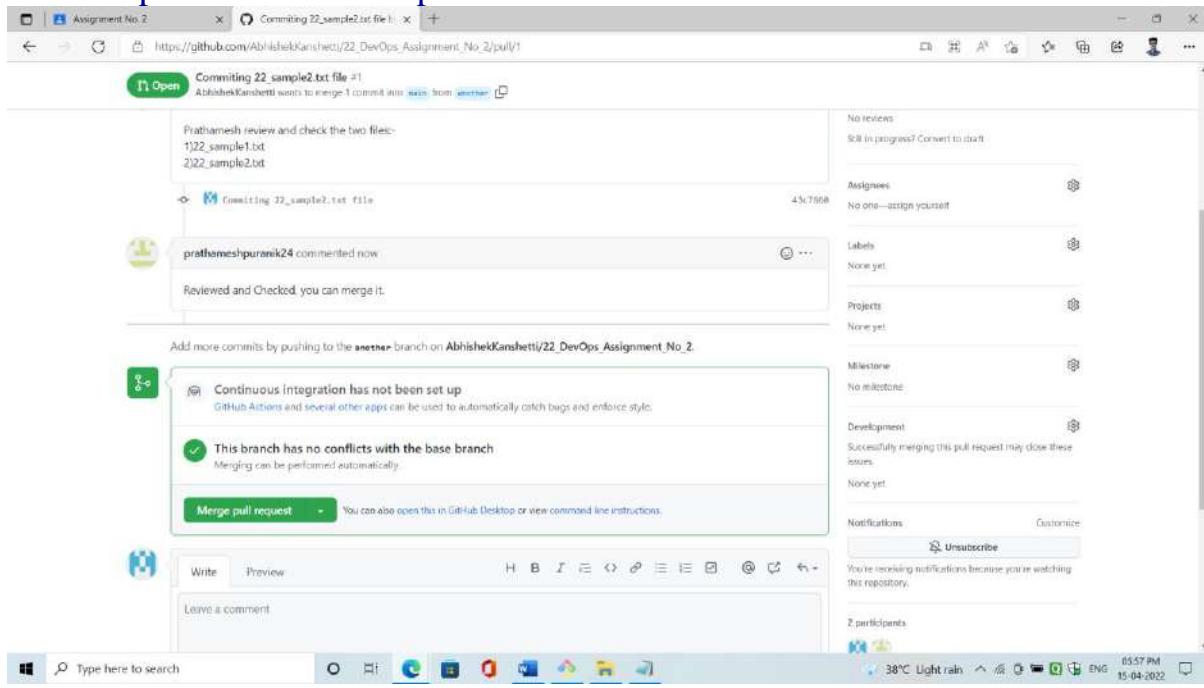


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2021-22 SEMESTER-II
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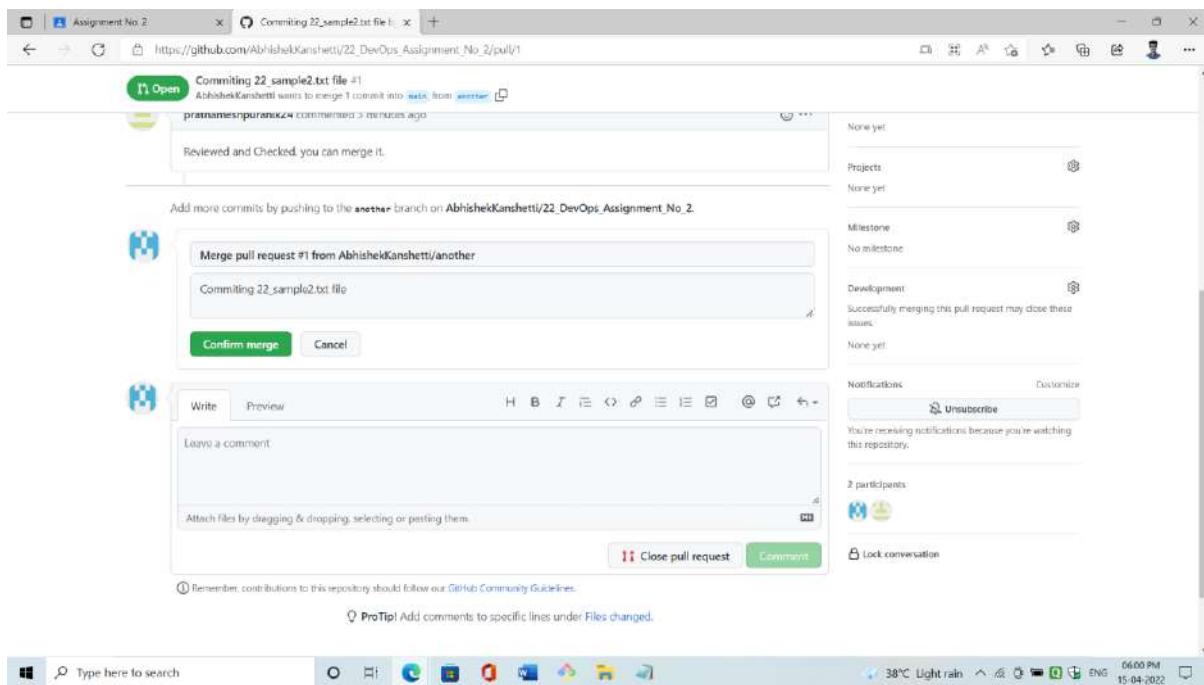
Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 2

Roll No: 22

Title: Implement GitHub Operations



Now Merging the pull request: -



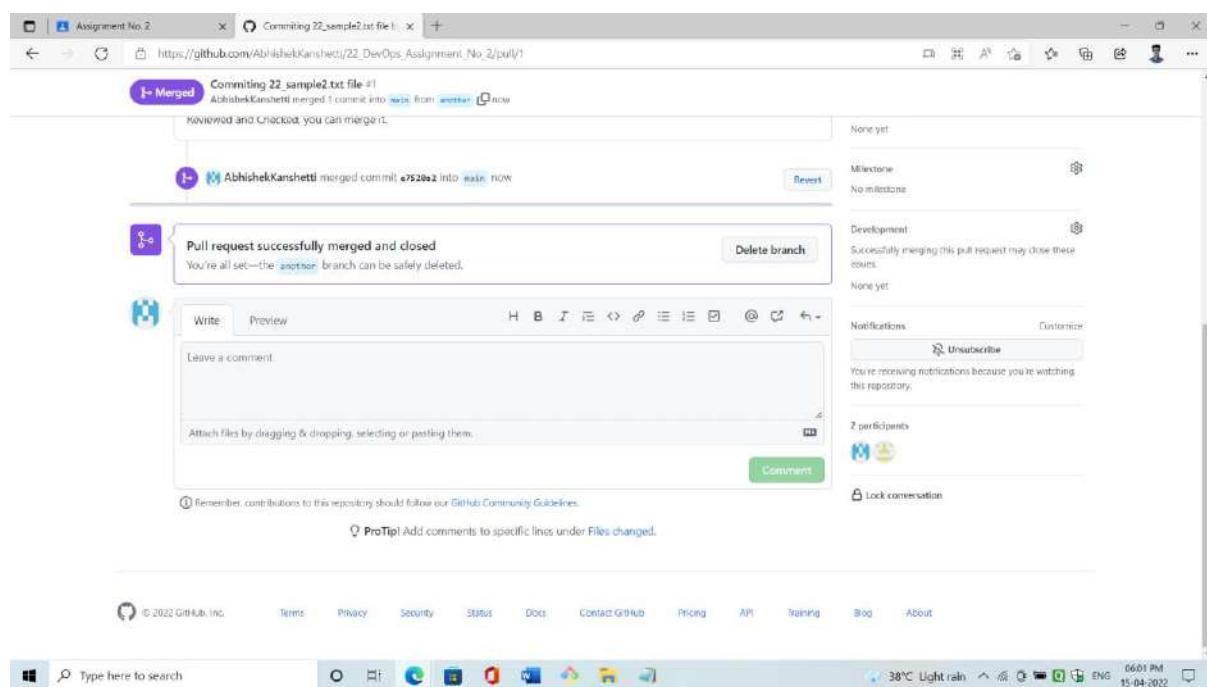
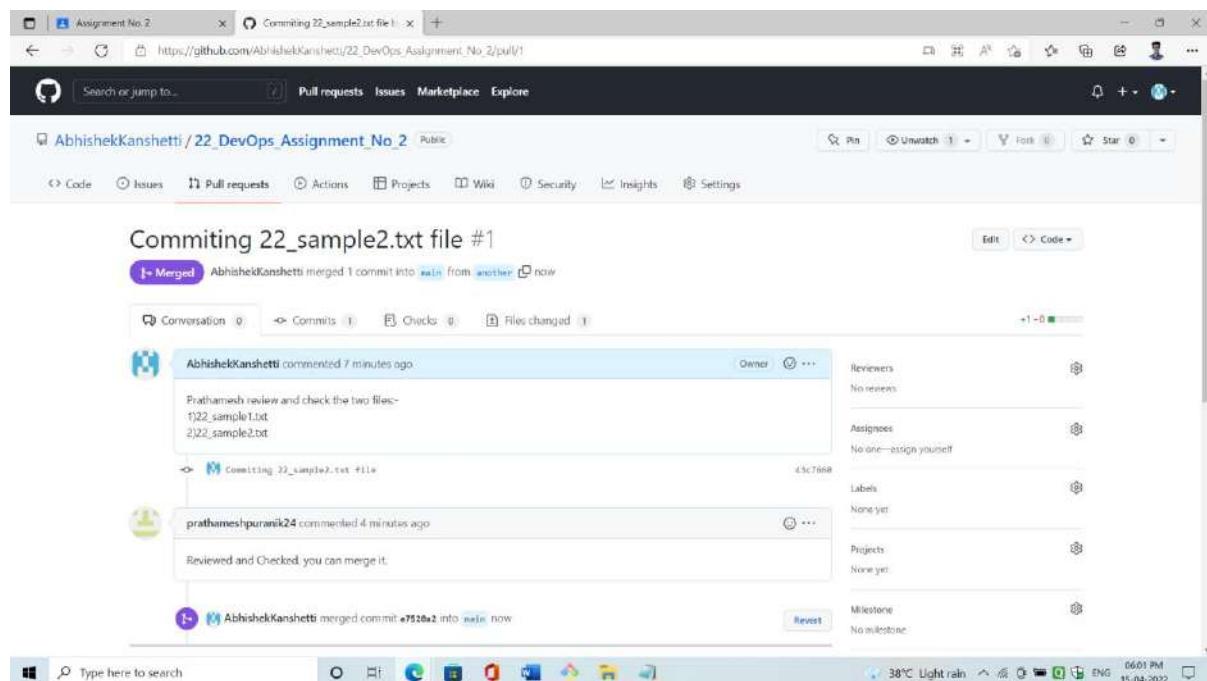
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DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 2

Title: Implement GitHub Operations
Successfully Merged Pull Request: -



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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Aim:

To Implement GitLab Operations.

Problem statement:

Perform basic GitLab operations like:

Create a project, to start using GitLab.

Create a branch, to make changes to files stored in a project's repository.

Fork a project, to duplicate projects so they can be worked on in parallel.

Add a file, to add new files to a project's repository.

Rebase Operation

Squashing Commits

Delete a branch

Output Screenshots:

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DEVOPS**

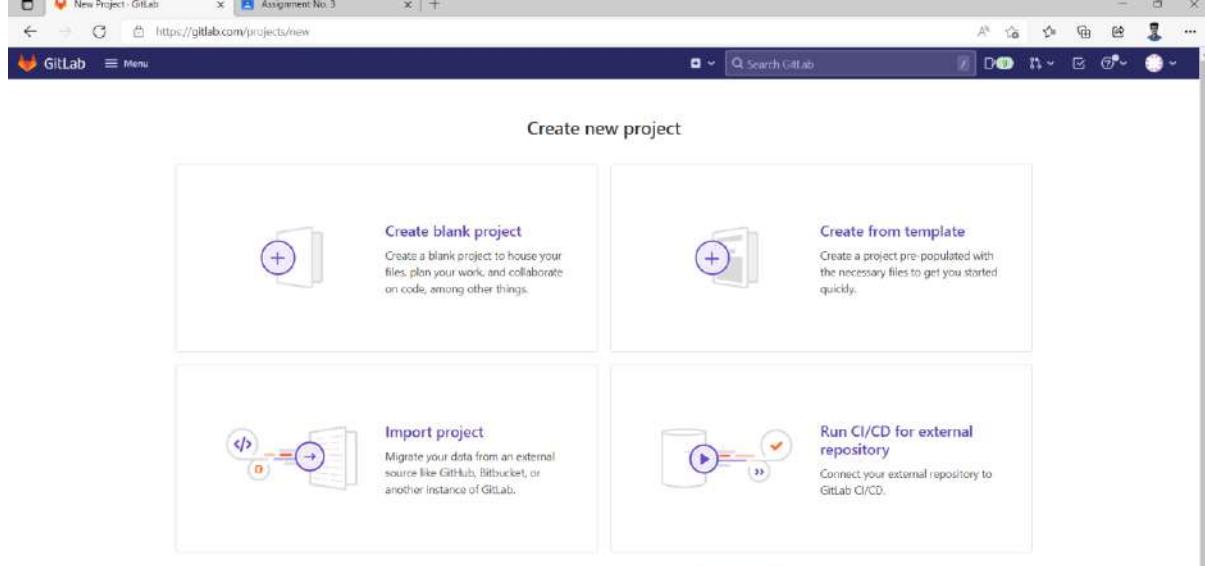
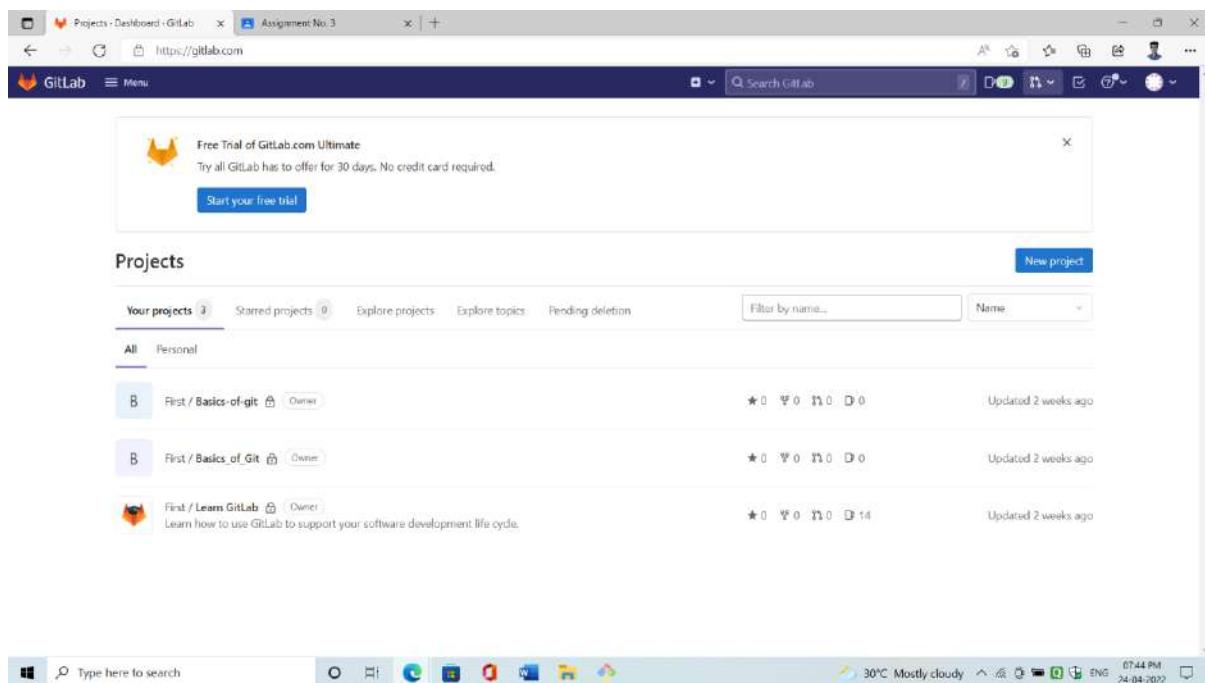
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

1)Create a project, to start using GitLab



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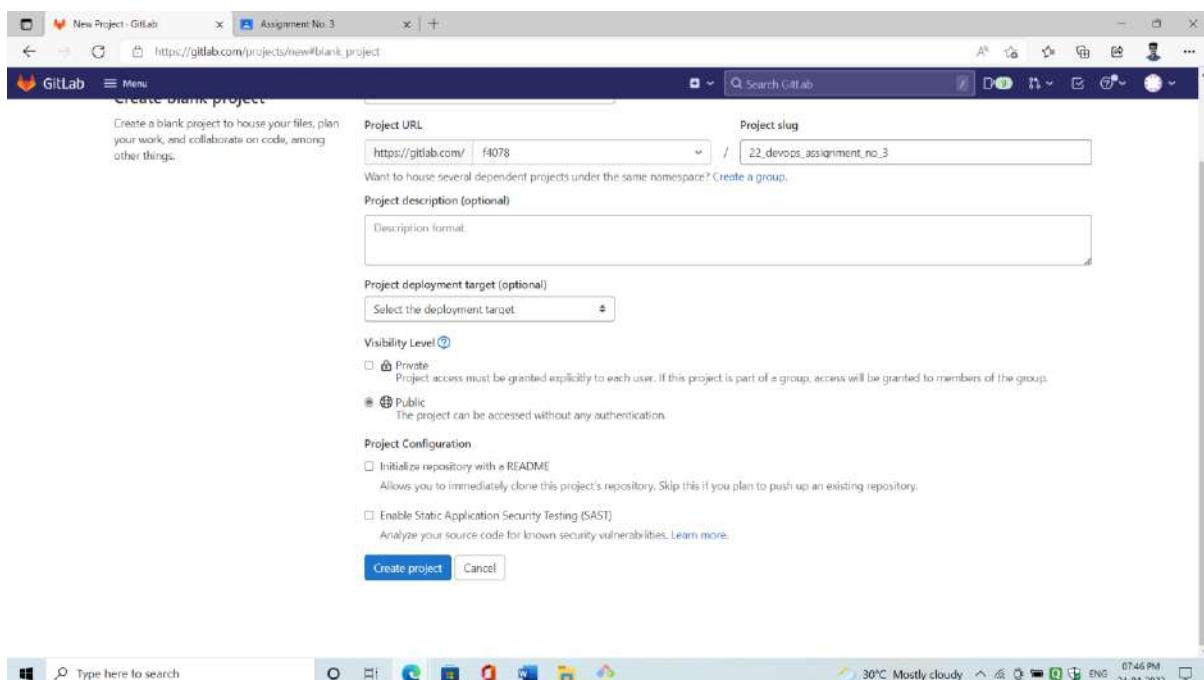
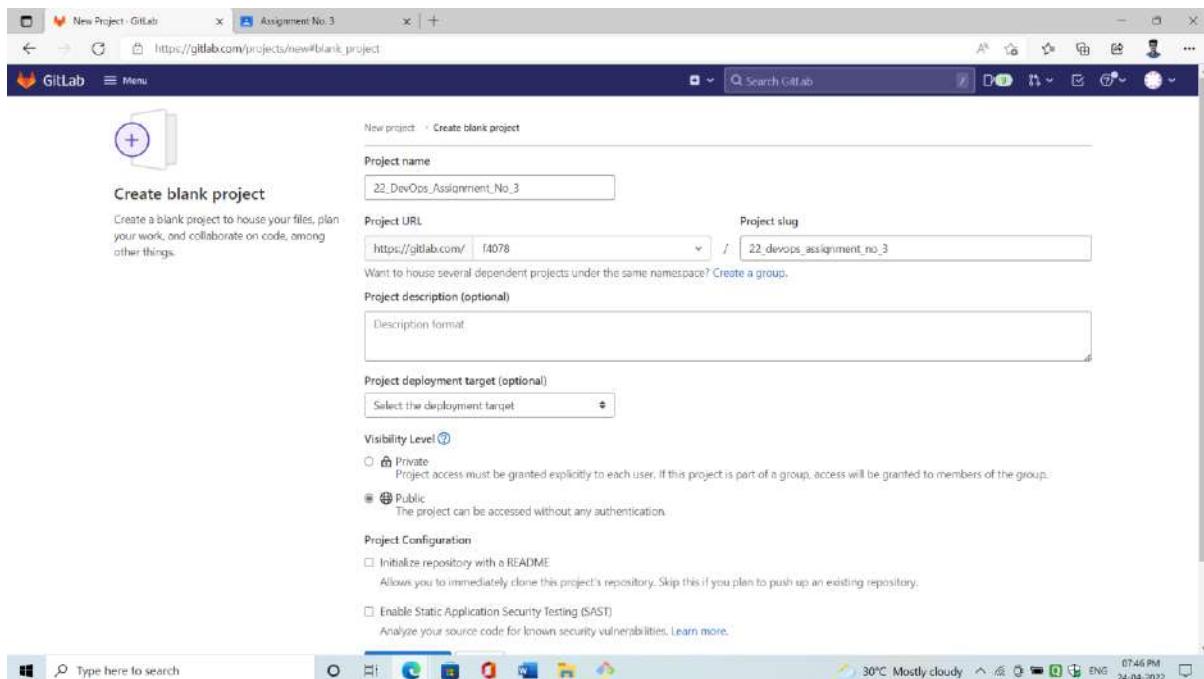
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Entered Project Name and Selected as Public Repository:

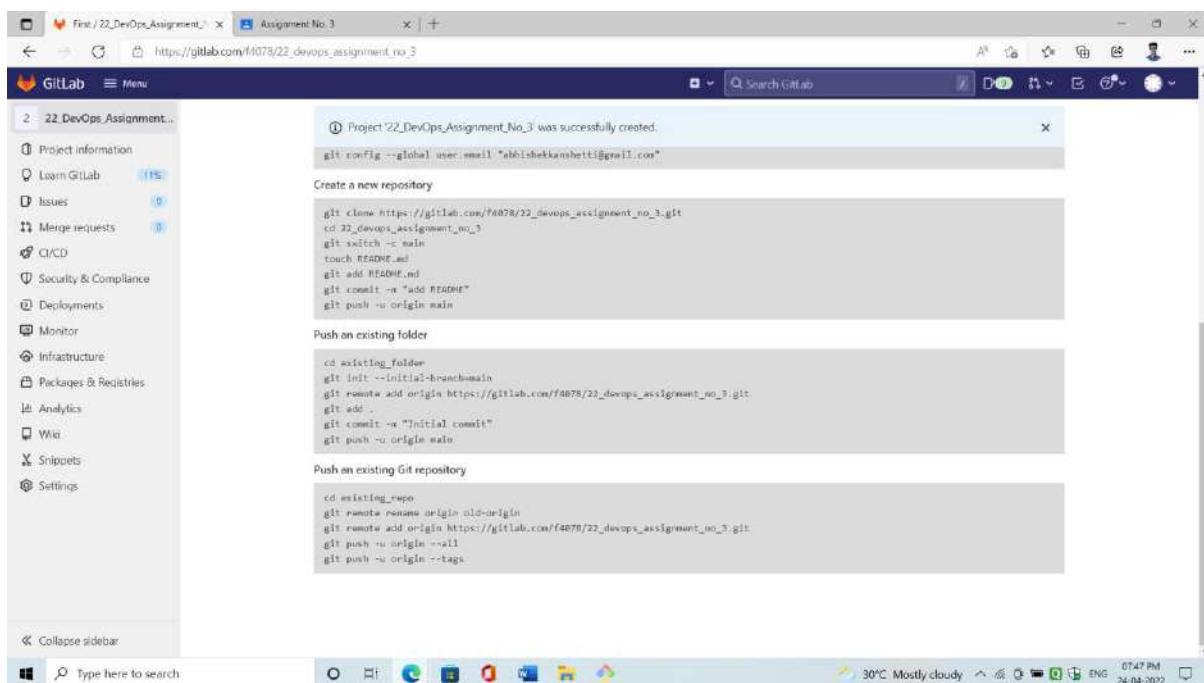
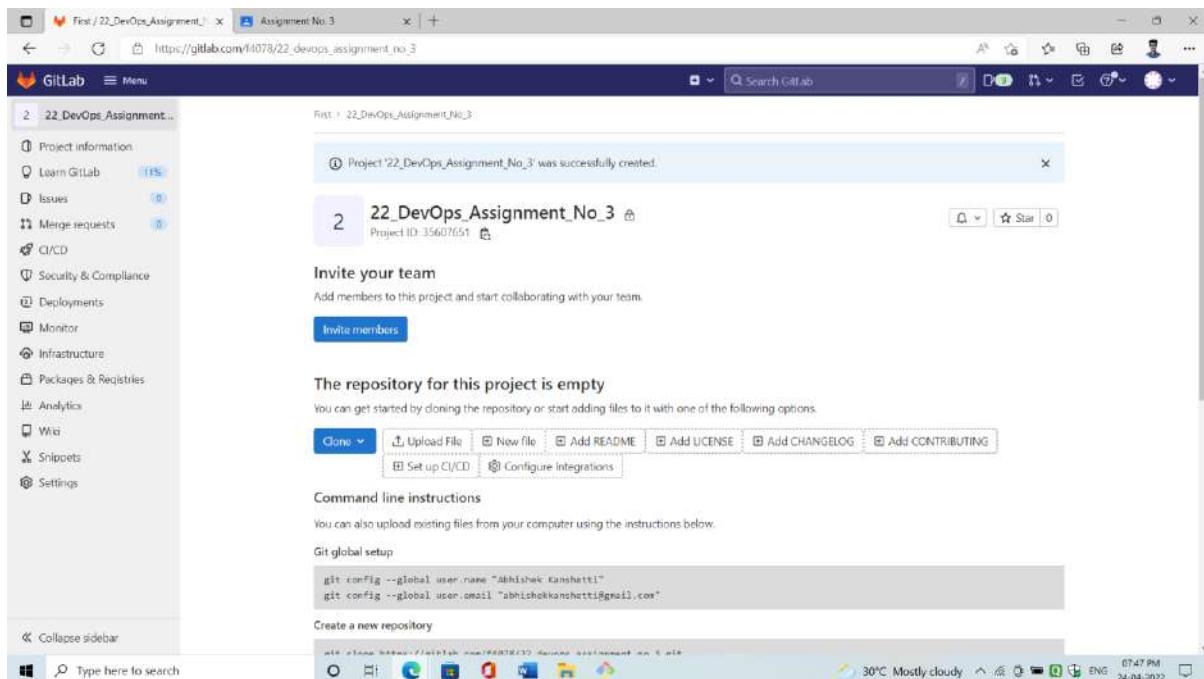


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DEVOPS

Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.
Created Repository as follow:

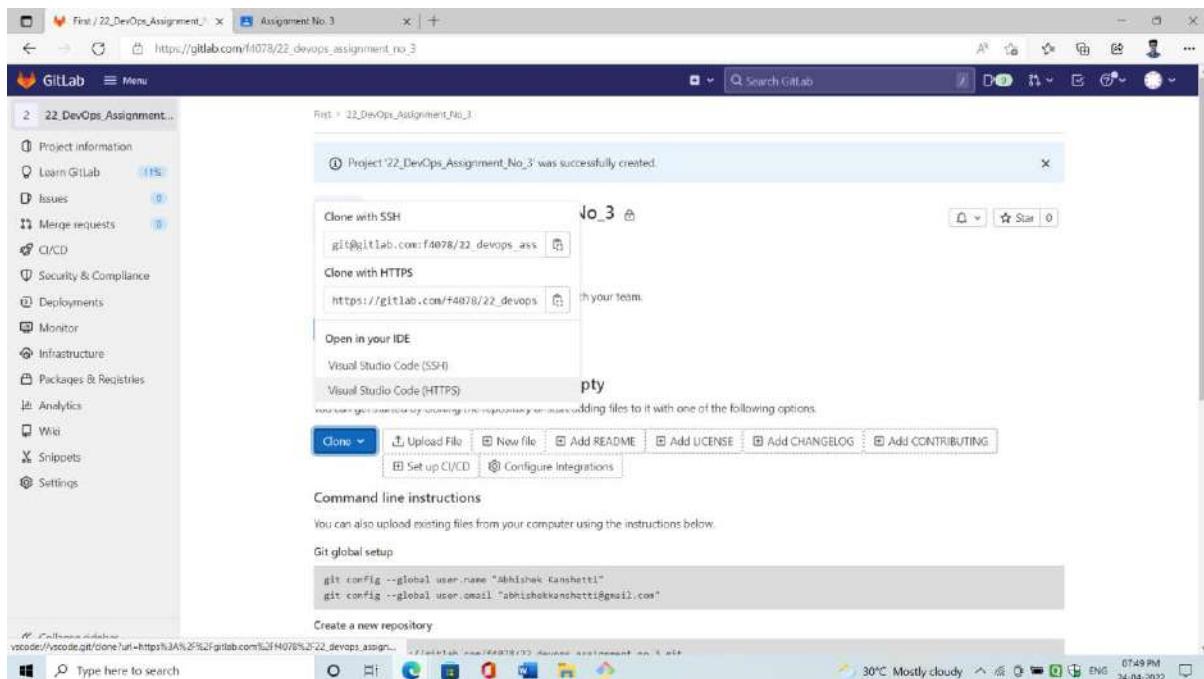


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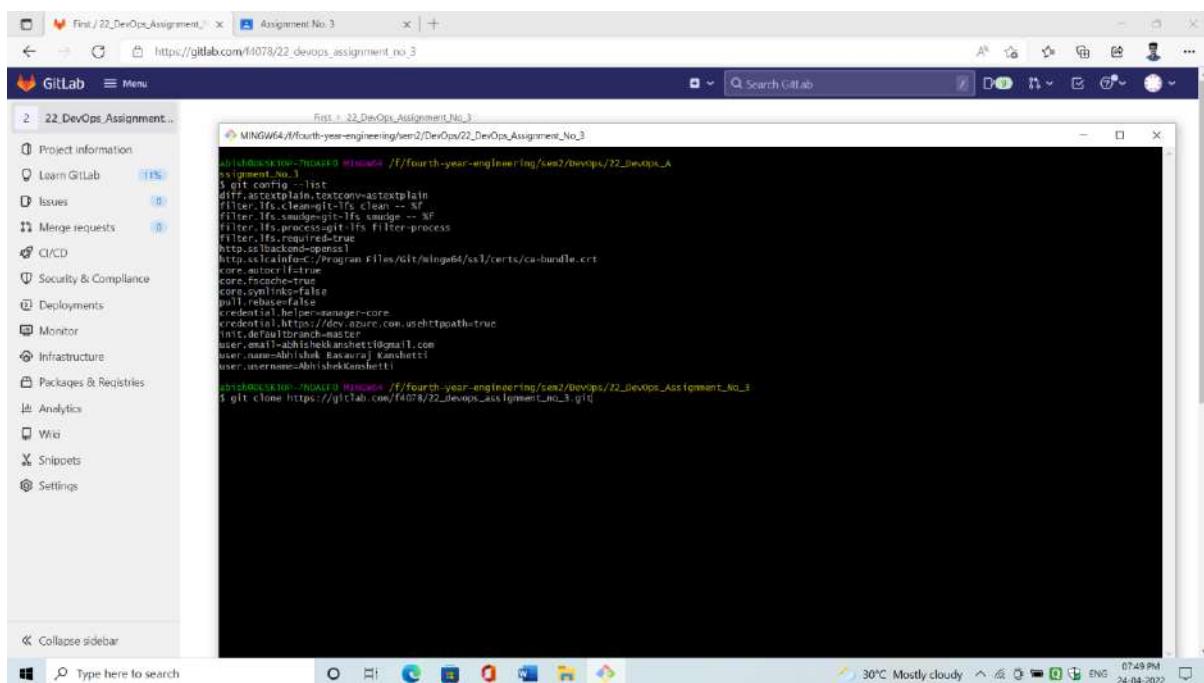
Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.



Cloning the Repository:

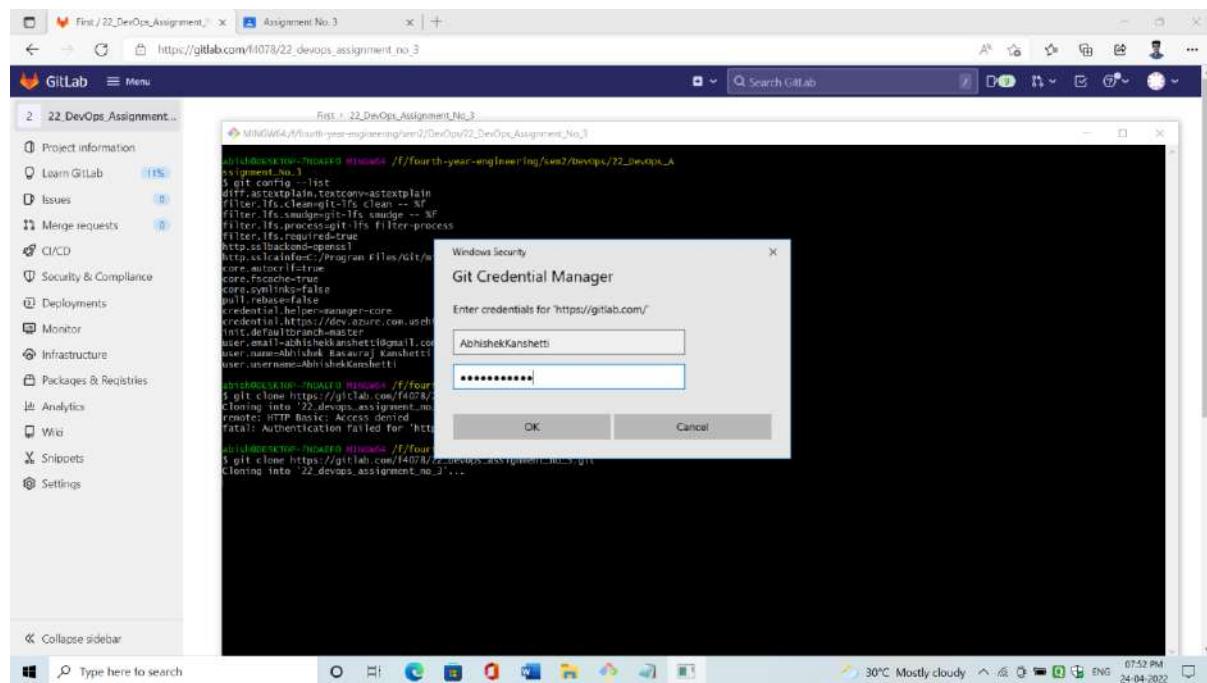
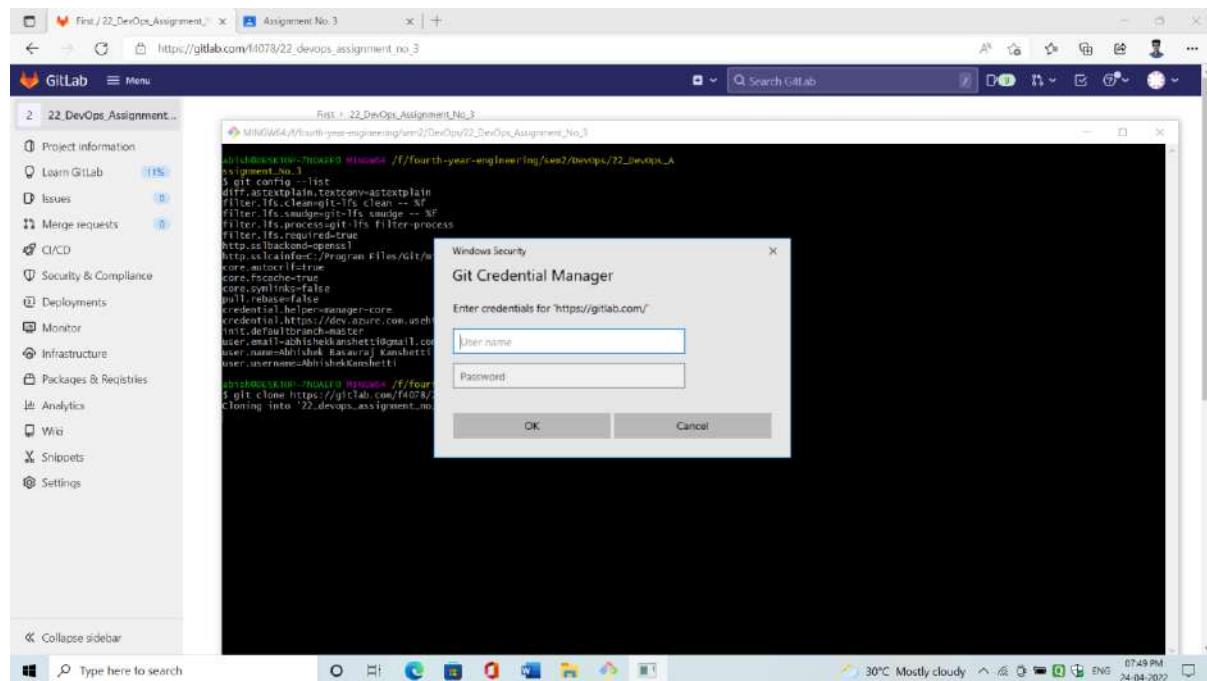


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DEVOPS

Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.
Entering the Credentials:

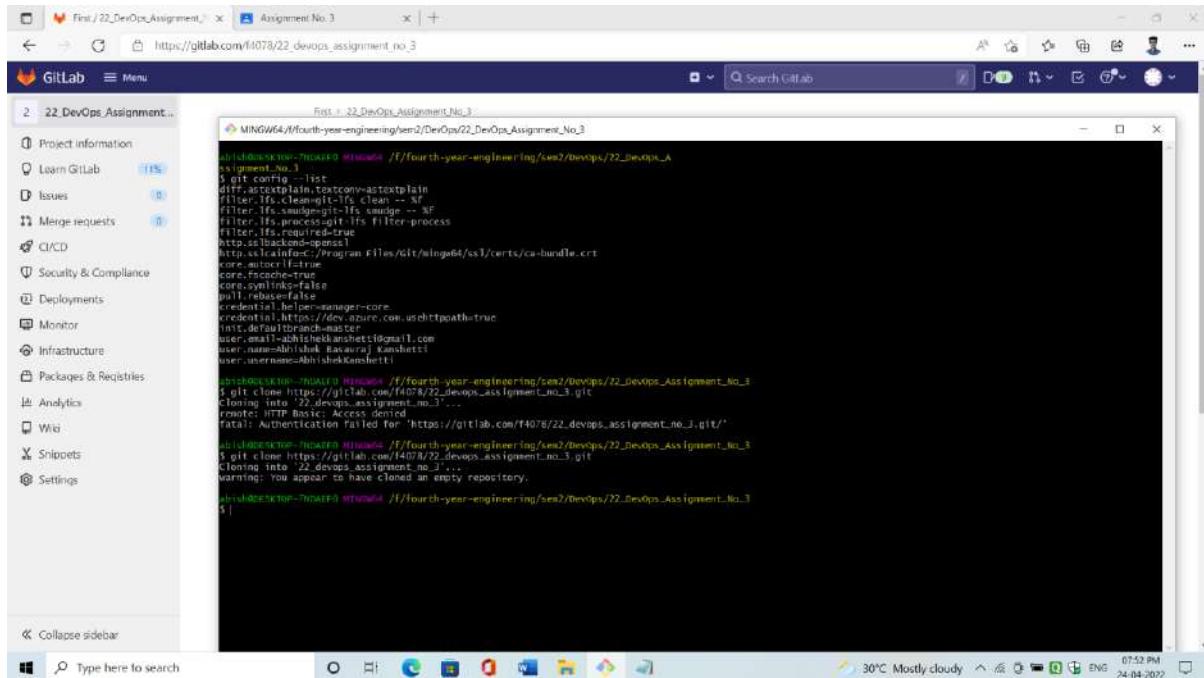


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DEVOPS

Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.



The screenshot shows a Windows desktop environment. In the center, there is a terminal window titled 'MINGW64 / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3'. It displays the command-line output of cloning a Git repository from GitLab:

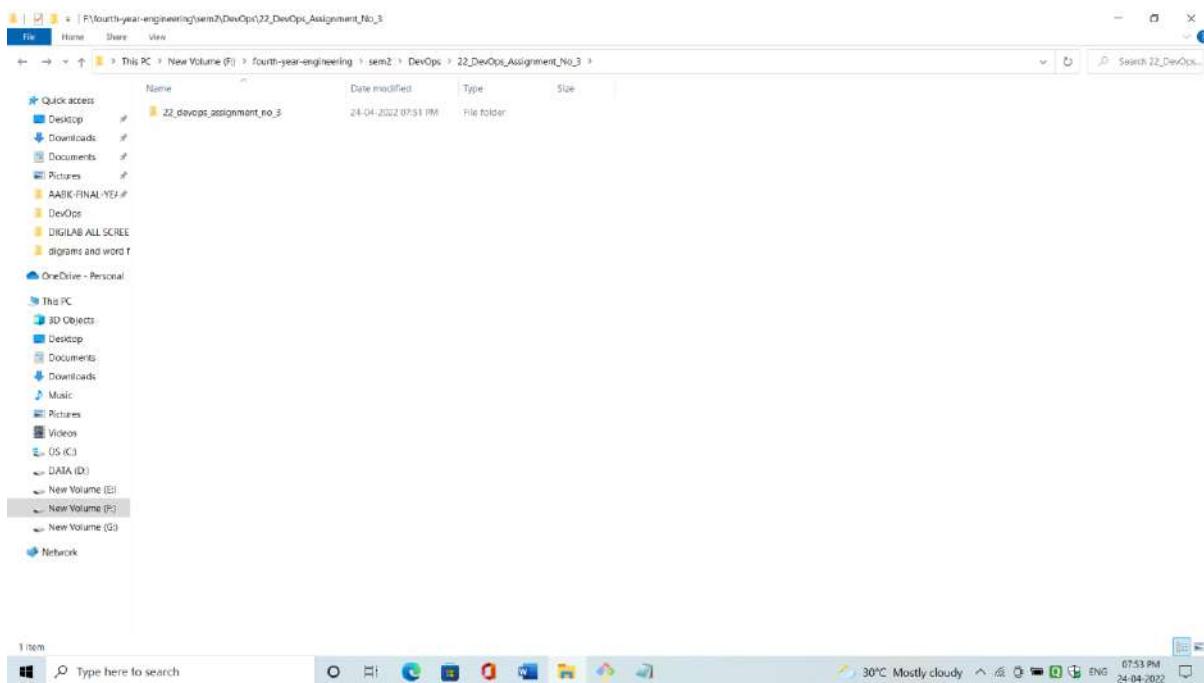
```

$ git clone https://gitlab.com/f4078/22_devops_assignment_no_3
Cloning into '22_devops_assignment_no_3'...
remote: Enumerating objects: 1, done.
remote: Total 1 (delta 0), reused 0 (delta 0)
warning: authentication failed for 'https://gitlab.com/f4078/22_devops_assignment_no_3.git'
$ 

```

At the top of the screen, a browser window is open with the URL https://gitlab.com/f4078/22_devops_assignment_no_3. The browser sidebar shows various project management and configuration options.

Cloned Repository as follow:



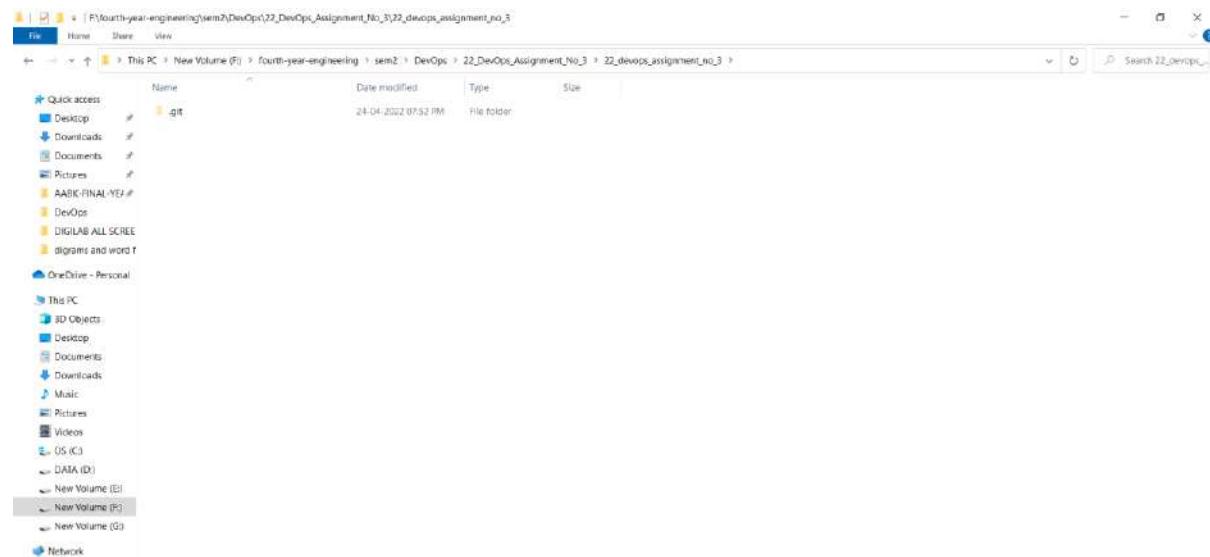
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

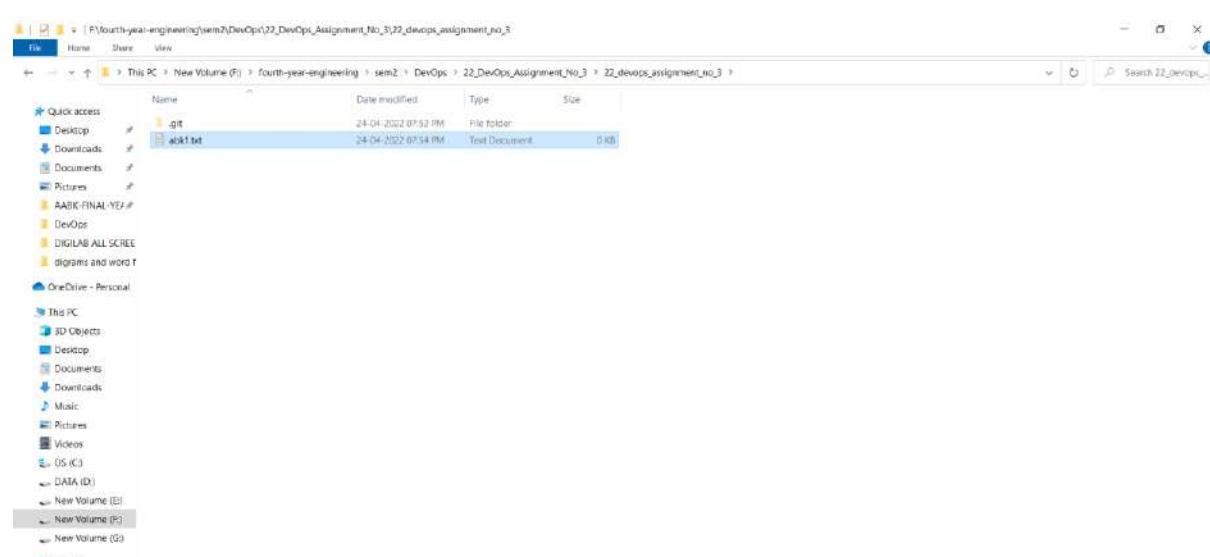
Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.



Adding the file:

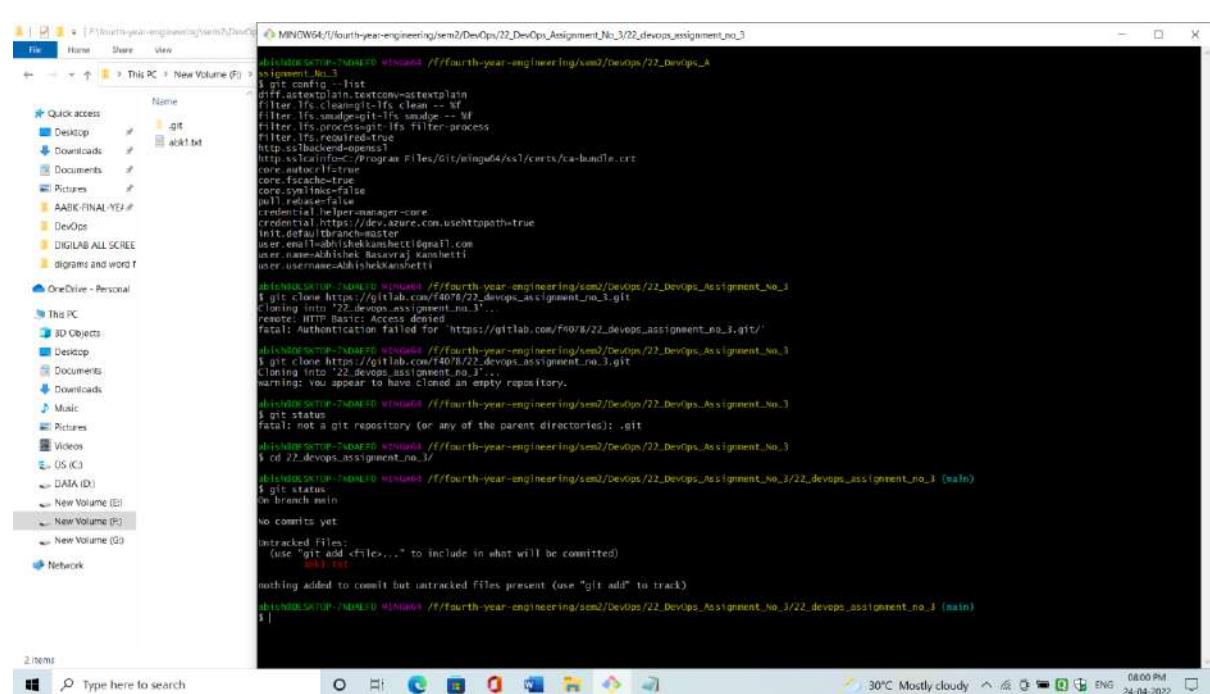
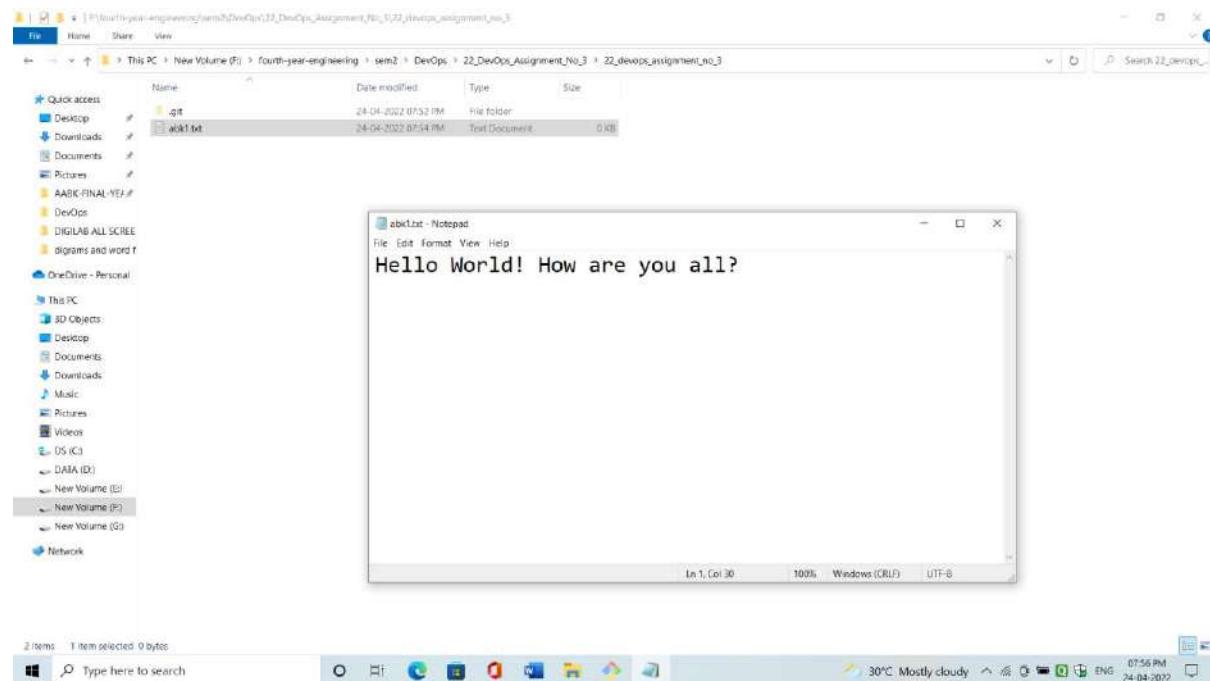


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Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.

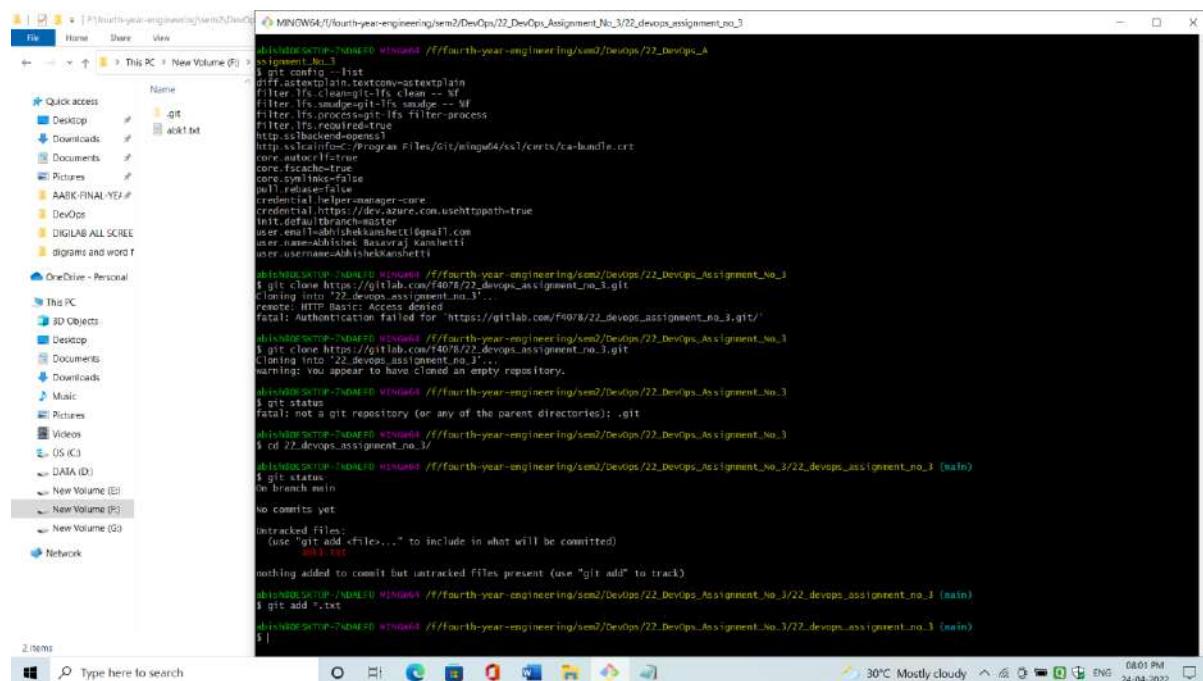


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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.
Adding the abk1.txt file:



```

$ git config --list
filter.lfs.clean=clean -- -Nf
filter.lfs.smudge=git-lfs smudge -- -Nf
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslCAInfo=C:/Program Files/Git/mingw64/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.ignoreCase=false
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential.url=https://dev.azure.com.useshotpth=true
http.extraHeader=Host
user.name=Abhishek Basavraj Kanshetti
user.username=AbhishekKanshetti

$ git clone https://gitlab.com/F4078/22_devsops_assignment_no_3.git
Cloning into '22_devsops_assignment_no_3'...
remote: Authentication failed for 'https://gitlab.com/F4078/22_devsops_assignment_no_3.git'
fatal: Authentication failed for 'https://gitlab.com/F4078/22_devsops_assignment_no_3.git'

$ git status
fatal: not a git repository (or any of the parent directories): .git

$ cd 22_devsops_assignment_no_3/
$ git status
$ git branch main
* main
No commits yet.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    abk1.txt

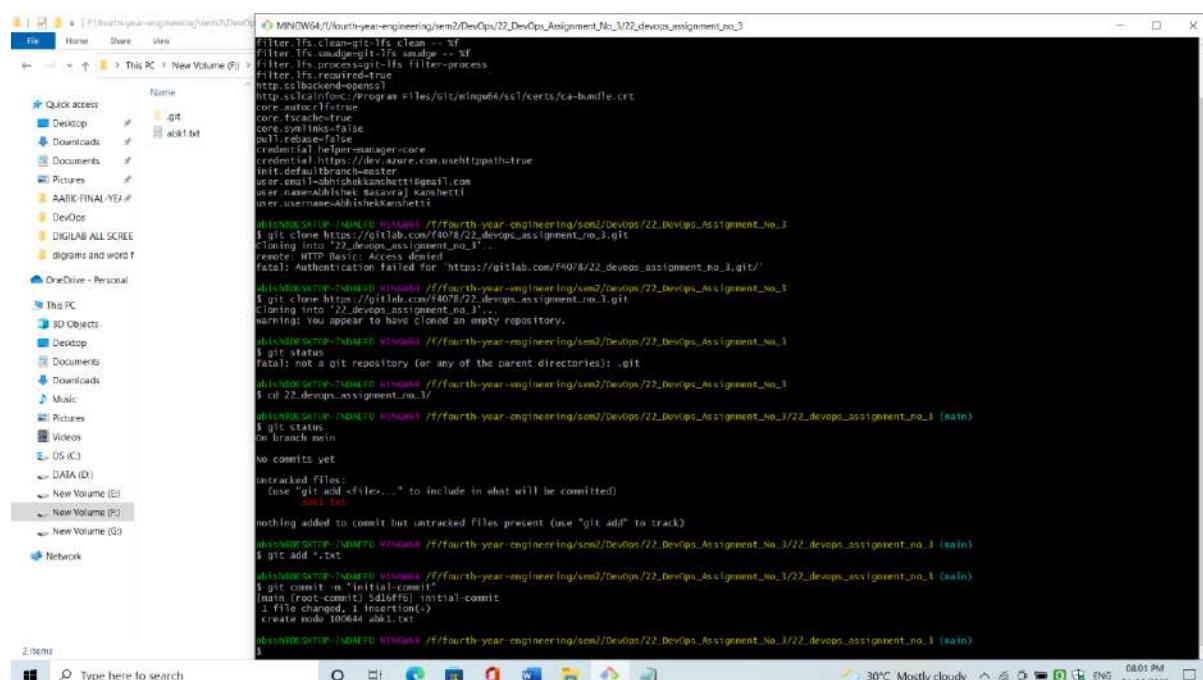
nothing added to commit but untracked files present (use "git add" to track)

$ git add *.txt
$ git add abk1.txt

$ git commit -m "Initial commit"
[main root commit] 5d10ff6 initial-commit
  1 file changed, 1 insertion(+)
  create mode 100644 abk1.txt

$ git push -u origin main
  
```

Committing the abk1.txt file:



```

$ git config --list
filter.lfs.clean=clean -- -Nf
filter.lfs.smudge=git-lfs smudge -- -Nf
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslCAInfo=C:/Program Files/Git/mingw64/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.ignoreCase=false
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential.url=https://dev.azure.com.useshotpth=true
http.extraHeader=Host
user.name=Abhishek Basavraj Kanshetti
user.username=AbhishekKanshetti

$ git clone https://gitlab.com/F4078/22_devsops_assignment_no_3.git
Cloning into '22_devsops_assignment_no_3'...
remote: Authentication failed for 'https://gitlab.com/F4078/22_devsops_assignment_no_3.git'
fatal: Authentication failed for 'https://gitlab.com/F4078/22_devsops_assignment_no_3.git'

$ git status
fatal: not a git repository (or any of the parent directories): .git

$ cd 22_devsops_assignment_no_3/
$ git status
$ git branch main
* main
No commits yet.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    abk1.txt

nothing added to commit but untracked FILES present (use "git add" to track)

$ git add abk1.txt

$ git commit -m "Initial commit"
[main root commit] 5d10ff6 initial-commit
  1 file changed, 1 insertion(+)
  create mode 100644 abk1.txt

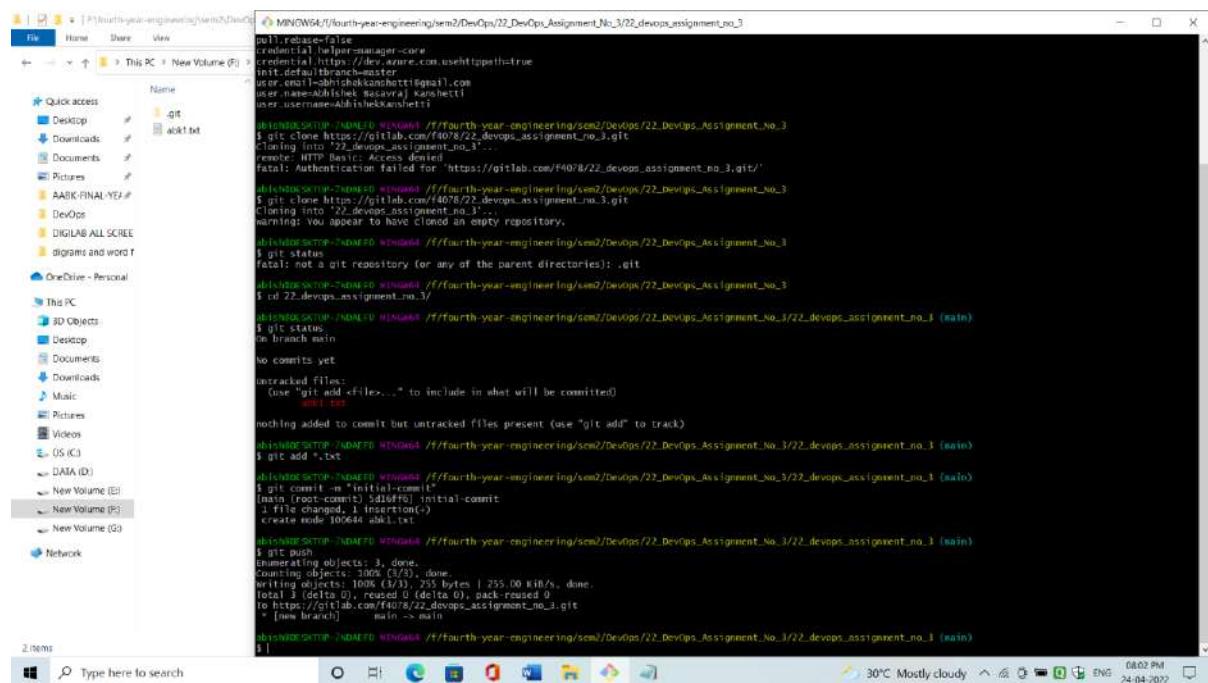
$ git push -u origin main
  
```

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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.
Pushing the abk1.txt:



```

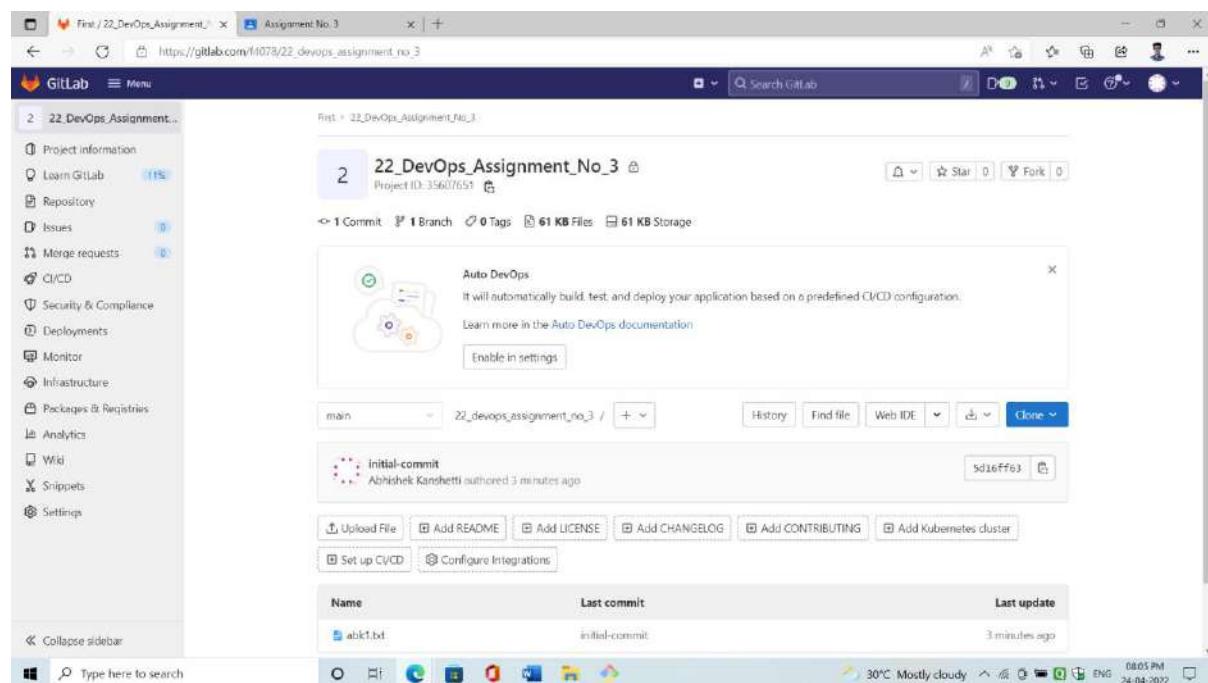
MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
$ git add abk1.txt
$ git commit -m "Initial commit"
$ git push https://gitlab.com/f4078/22_devops_assignment_no_3.git
AbhishekKanshetti@ABHIK-FINAL-YE:~/MINGW64 // / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ git clone https://gitlab.com/f4078/22_devops_assignment_no_3.git
Cloning into '22_devops_assignment_no_3'...
remote: HTTP Basic: Access denied
fatal: Authentication failed for 'https://gitlab.com/f4078/22_devops_assignment_no_3.git/'

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ git status
On branch main
No commits yet.
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore
nothing added to commit but untracked files present (use "git add" to track)

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ git add .
MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ git commit -m "Initial commit"
[main (root-commit) 5d1eff0] initial-commit
 1 file changed, 1 insertion(+)
 create mode 100644 abk1.txt
MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 255 bytes | 255.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/f4078/22_devops_assignment_no_3.git
 [new branch] main -> main
MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ 

```

Added abk1.txt on remote as follow:



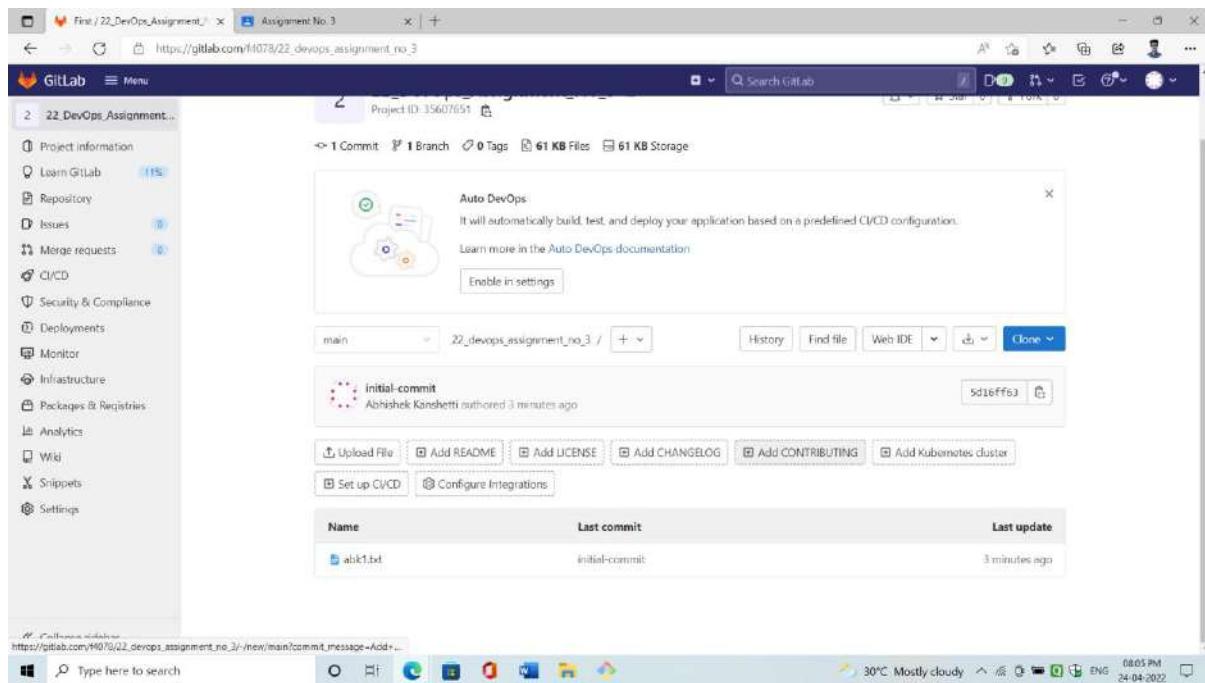
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.



The screenshot shows a Microsoft Edge browser window with the following details:

- Address Bar:** https://gitlab.com/f1078/22_devops_assignment_no_3
- GitLab Project Overview:** Project ID: 35607651. Statistics: 1 Commit, 1 Branch, 0 Tags, 61 KB Files, 61 KB Storage.
- Commit History:** main / 22_devops_assignment_no_3 / initial-commit (Abhishek Kanshetti, 3 minutes ago). Commit message: Add abk1.txt.
- Actions:** Upload File, Add README, Add LICENSE, Add CHANGELOG, Add CONTRIBUTING, Add Kubernetes cluster, Set up CI/CD, Configure Integrations.
- Modal Window:** Auto DevOps (Info: It will automatically build, test, and deploy your application based on a predefined CI/CD configuration. Learn more in the Auto DevOps documentation. Enable in settings).
- Taskbar:** Shows the date as 24-04-2022 and the time as 08:05 PM.

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2021-22 SEMESTER-II
DEVOPS**

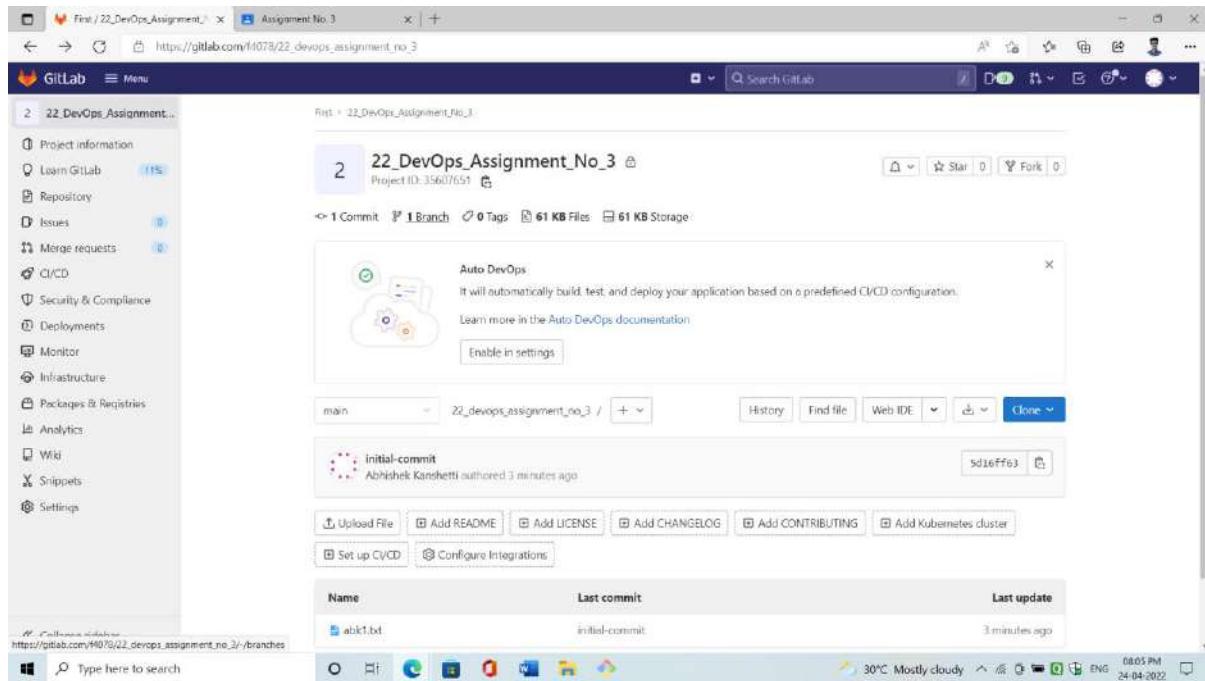
Name: Abhishek Basavraj Kanshetti

Roll No: 22

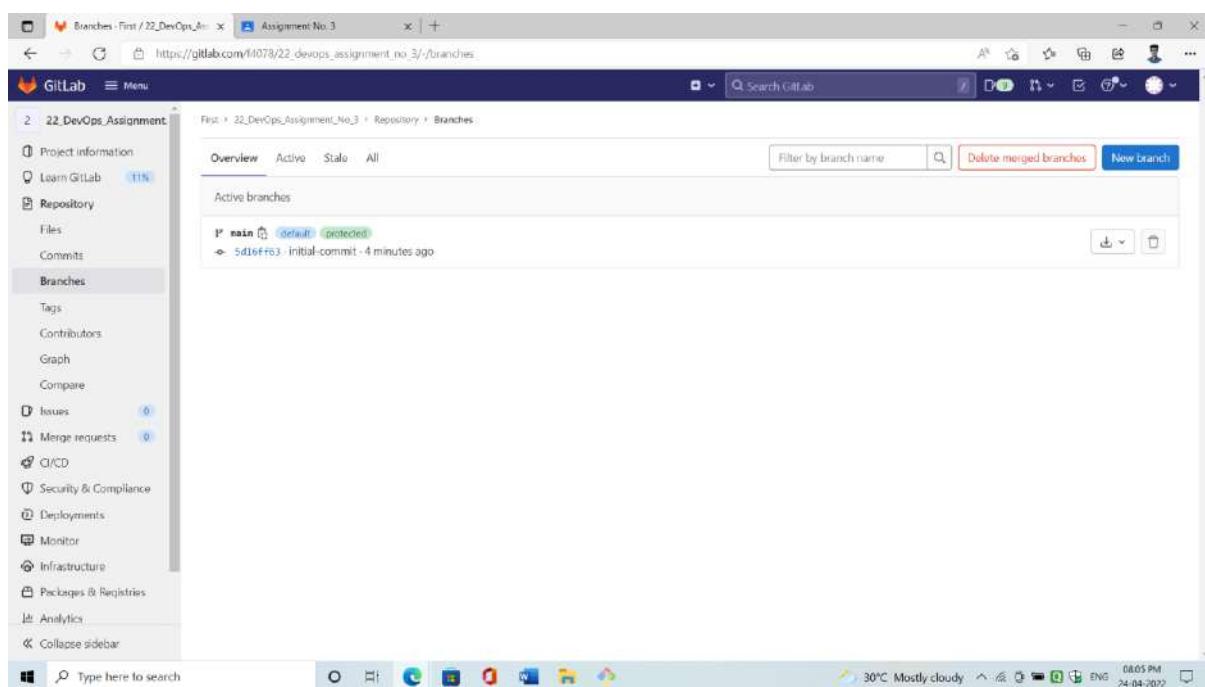
ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

2) Create a branch, to make changes to files stored in a project's repository



Checking the Current branches on remote:



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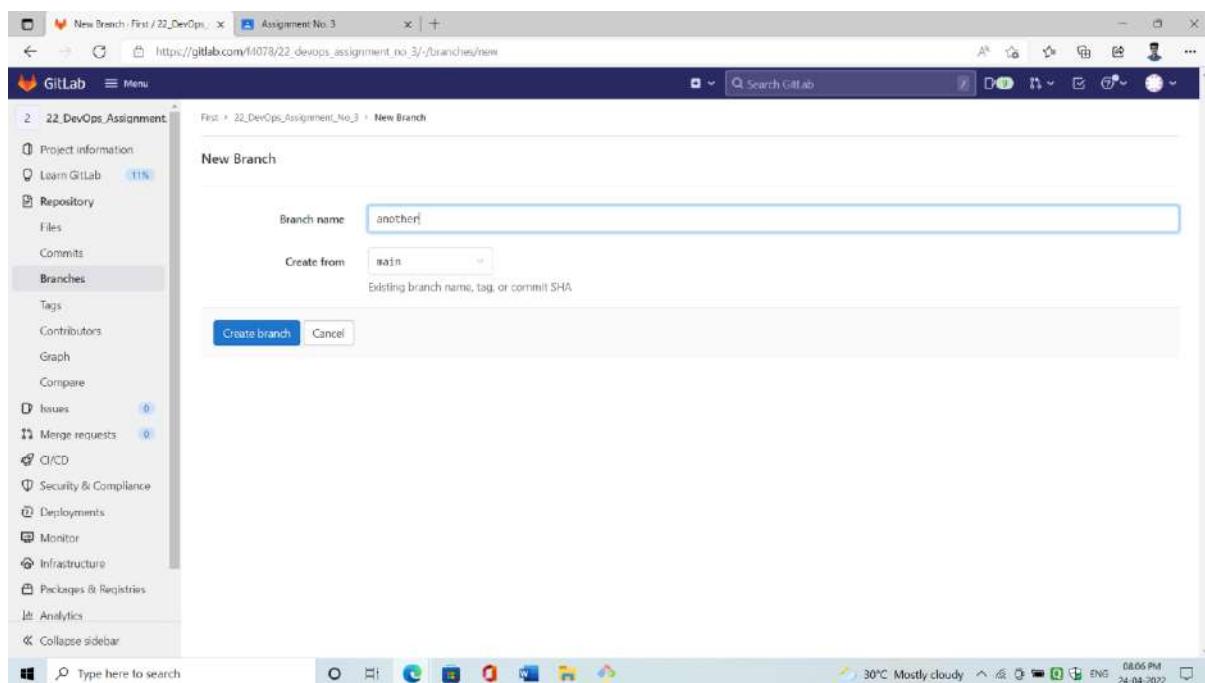
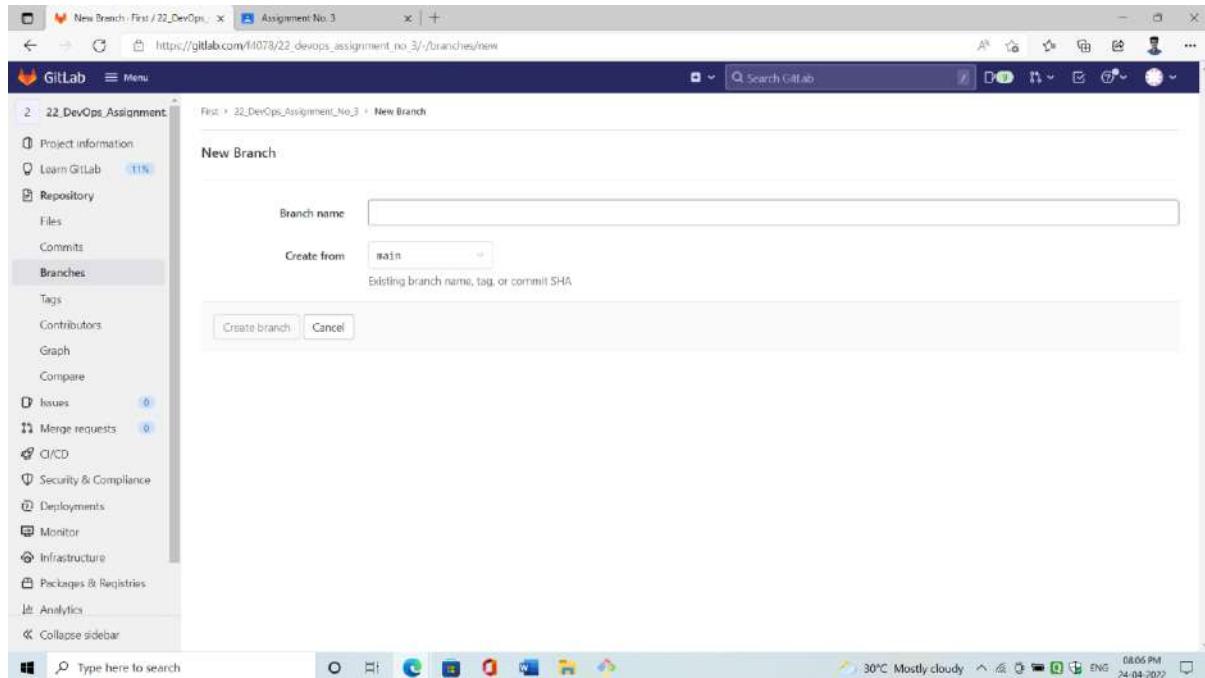
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Creating the New Branch Named “Another”:

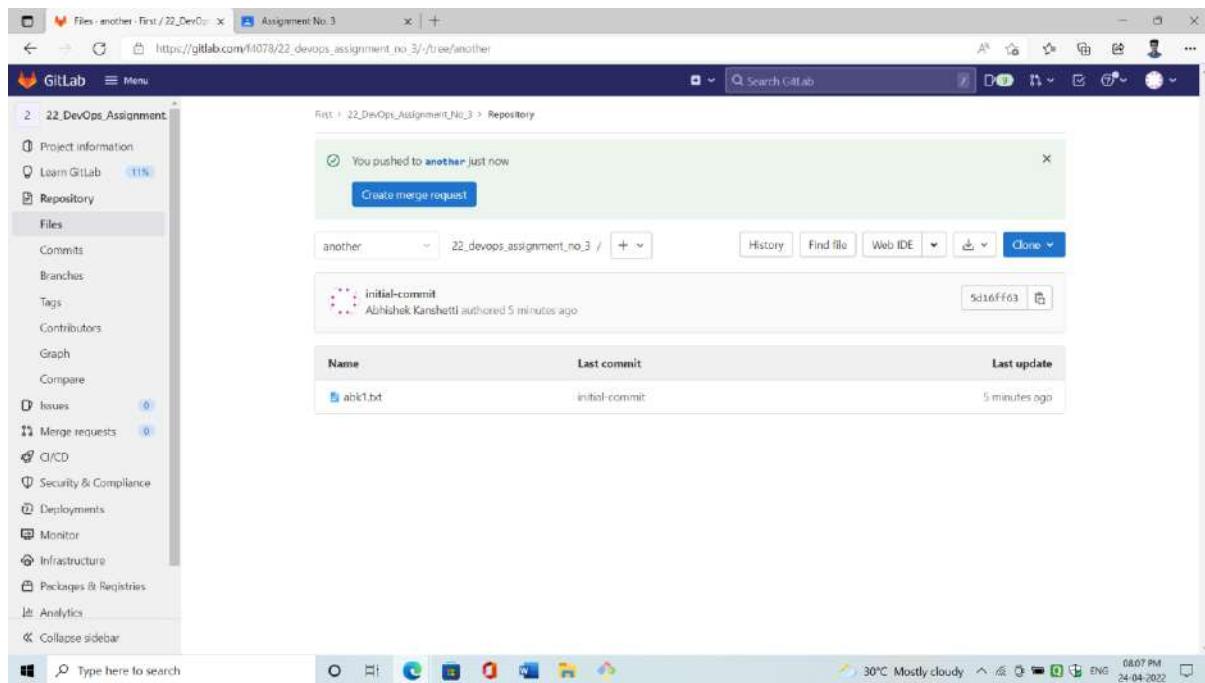


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Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

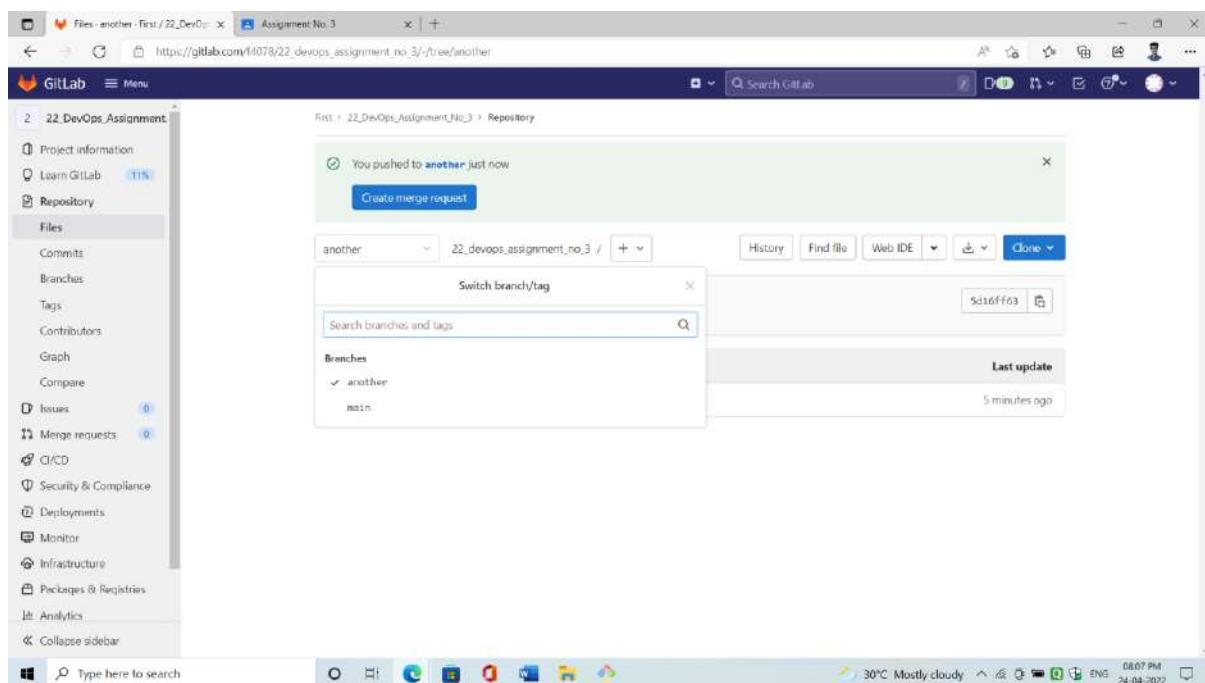
Roll No: 22

Title: Implement GitLab Operations.



The screenshot shows a GitLab repository page for '22_DevOps_Assignment'. A message at the top says 'You pushed to another just now'. Below it, a commit titled 'initial-commit' by 'Abhishek Kanshetti' is listed. The commit hash is '5d16ff63'. A table shows the file 'abk1.txt' with its last commit also being 'initial-commit' at '5 minutes ago'. The sidebar on the left lists various project management sections like Project information, Learn GitLab, Repository, Issues, Merge requests, CI/CD, Security & Compliance, Deployments, Monitor, Infrastructure, Packages & Registries, and Analytics.

Checking New Branch Named Another:



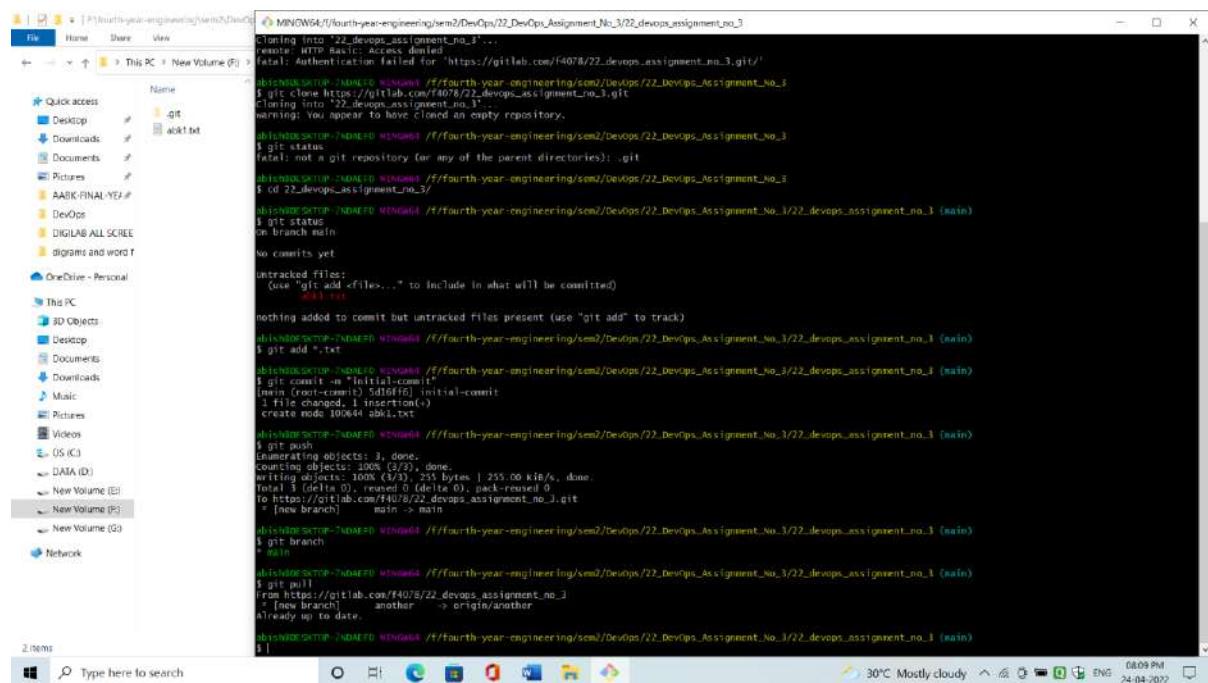
The screenshot shows the same GitLab repository page. A dropdown menu titled 'Switch branch/tag' is open, showing two branches: 'another' and 'main'. The rest of the interface is identical to the previous screenshot, displaying the commit history and repository details.

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Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.
 Pulling the Branch on Local Repository:



```

MINGW64 / / fourth-year-engineering/sem2/DevOps
File Home Share View
This PC New Volume (F) MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
fatal: Authentication failed for 'https://gitlab.com/F4078/22_devops_assignment_no_3.git/'

git clone https://gitlab.com/F4078/22_devops_assignment_no_3.git
Cloning into '22_devops_assignment_no_3'...
warning: you appear to have cloned an empty repository.

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ git status
fatal: not a git repository (or any of the parent directories): .git

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ cd 22_devops_assignment_no_3/
MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ git status
On branch main
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)

nothing added to commit but untracked files present (use "git add" to track)

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git add *.txt
MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git commit -m "Initial commit"
[abk1 FINAL-YES] Initial commit
 1 file changed, 1 insertion(+)
 create mode 100644 abk1.txt

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 255 bytes | 255.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/F4078/22_devops_assignment_no_3.git
 + [new branch]  main -> main

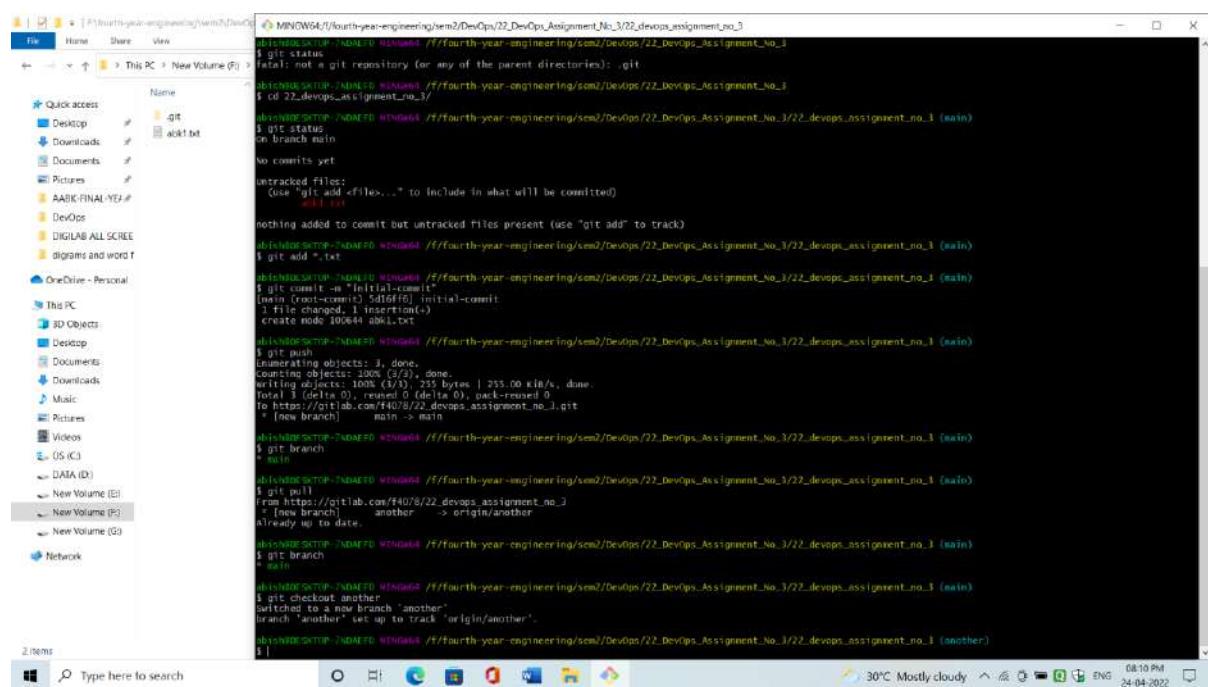
MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* main

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git pull
From https://gitlab.com/F4078/22_devops_assignment_no_3
 * [new branch] another -> origin/another
Already up-to-date.

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* main

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git checkout another
Switched to a new branch 'another'
Branch 'another' set up to track 'origin/another'.

```



```

MINGW64 / / fourth-year-engineering/sem2/DevOps
File Home Share View
This PC New Volume (F) MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
fatal: not a git repository (or any of the parent directories): .git

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3
$ git status
fatal: not a git repository (or any of the parent directories): .git

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
$ cd 22_devops_assignment_no_3/
MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git commit -m "Initial commit"
[abk1 FINAL-YES] Initial commit
 1 file changed, 1 insertion(+)
 create mode 100644 abk1.txt

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 235 bytes | 235.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/F4078/22_devops_assignment_no_3.git
 + [new branch]  main -> main

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* main

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git pull
From https://gitlab.com/F4078/22_devops_assignment_no_3
 * [new branch] another -> origin/another
Already up-to-date.

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* main

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git checkout another
Switched to a new branch 'another'
Branch 'another' set up to track 'origin/another'.

```

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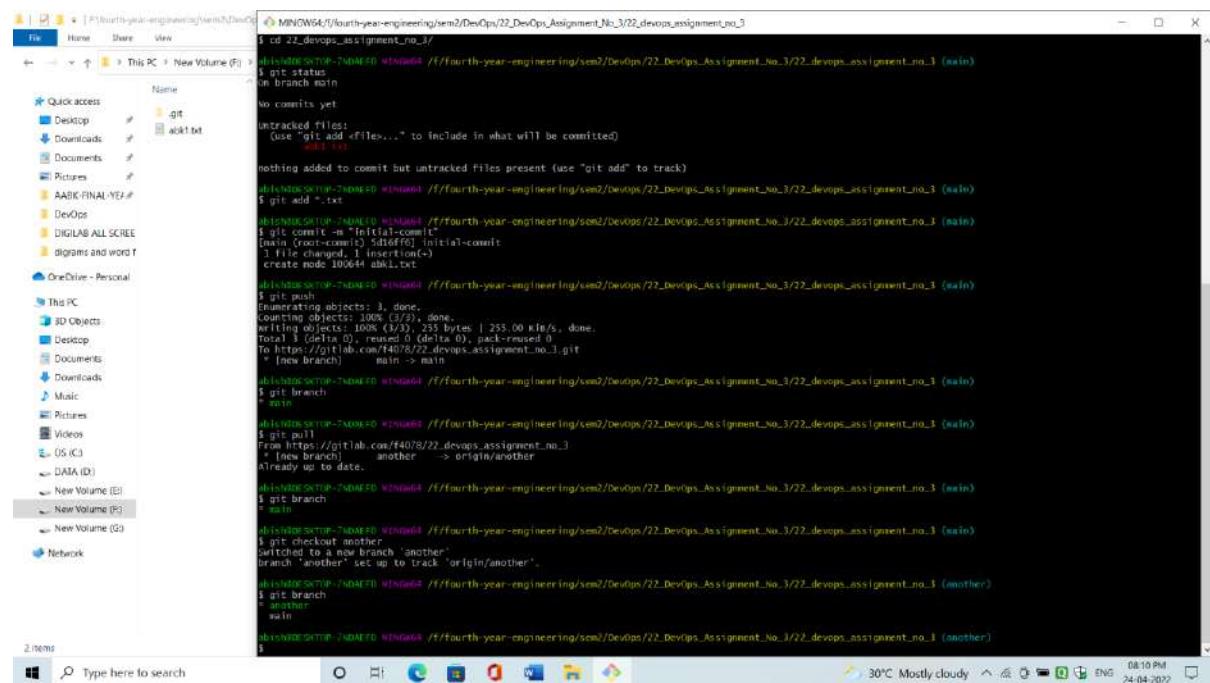
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Checking number of branches on Local Repository:



```
cd 22_devops_assignment_no_3/
$ git status
On branch main
No commits yet
Untracked files:
  (use "git add <file...>" to include in what will be committed)
    .git
nothing added to commit but untracked files present (use "git add" to track)

$ git add .
$ git commit -m "Initial commit"
[main (root-commit) 5d1d0ff] initial commit
  1 file changed, 1 insertion(+)
  create mode 100644 ab1.txt

$ git push
Counting objects: 3, done.
Writing objects: 3 (3/3), done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/f44073/22_devops_assignment_no_3.git
  [new branch] main -> main

$ git branch
* main

$ git checkout another
Switched to a new branch 'another'
Branch 'another' set up to track 'origin/another'.

$ git branch
* another
  main

$ git push
Counting objects: 3, done.
Writing objects: 3 (3/3), done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/f44073/22_devops_assignment_no_3.git
  [new branch] another -> origin/another

$ git branch
* another
  main
```

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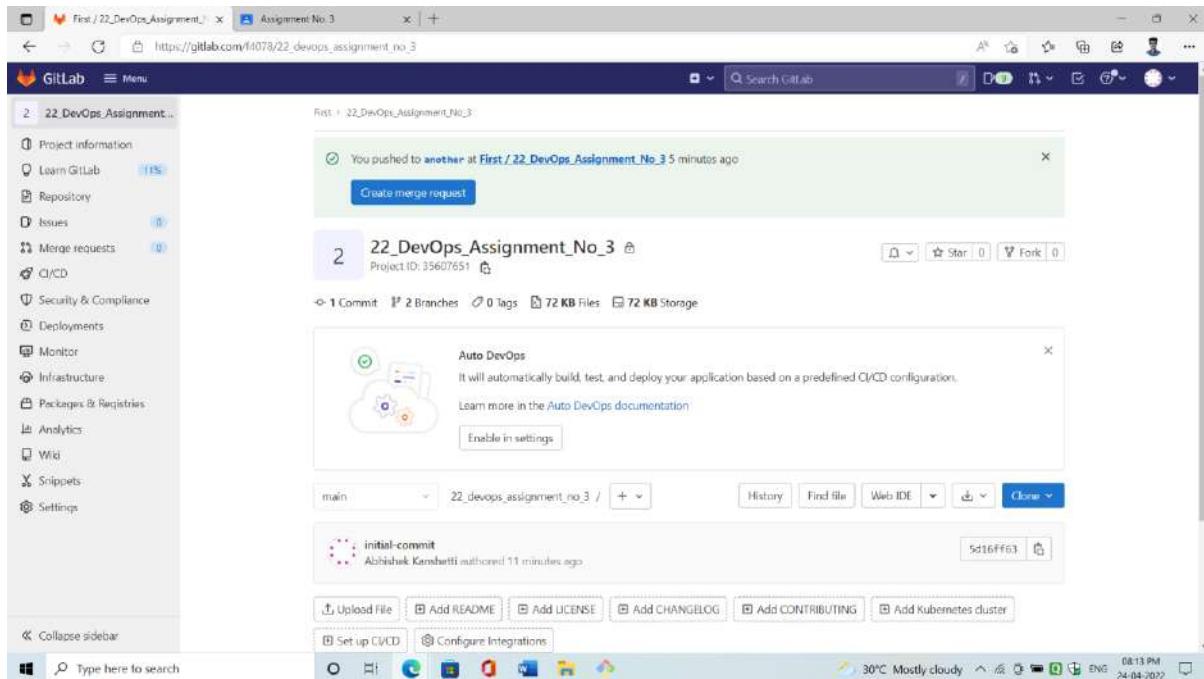
Name: Abhishek Basavraj Kanshetti

Roll No: 22

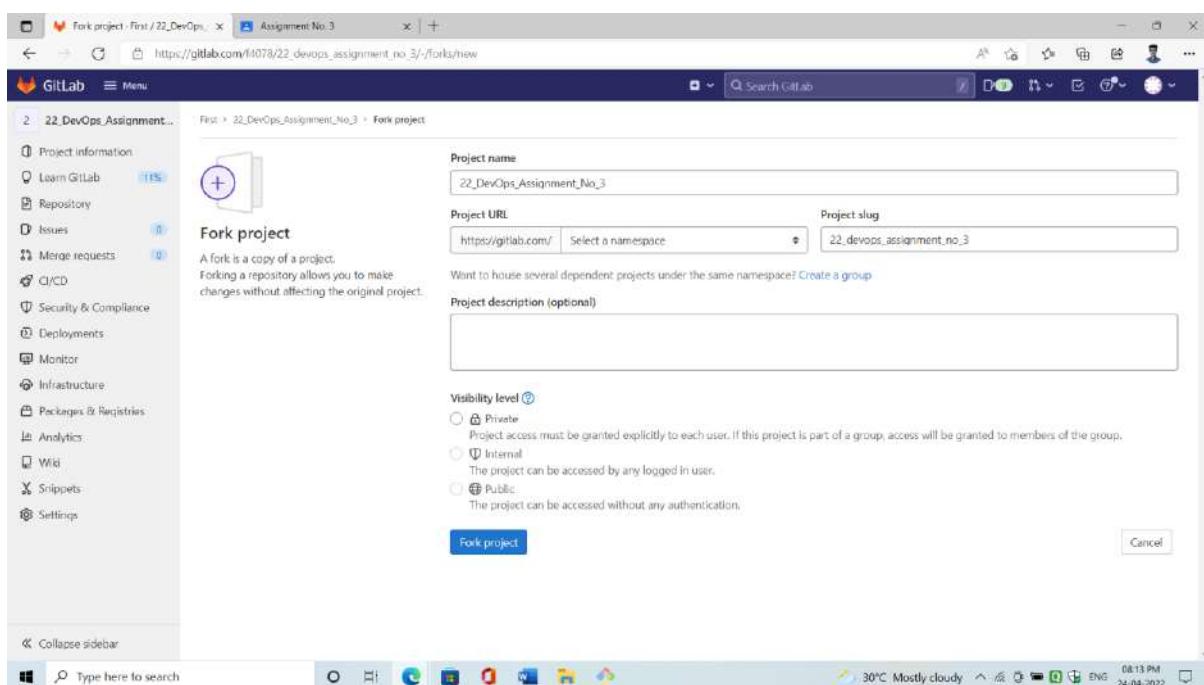
ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

3) Fork a project, to duplicate projects so they can be worked on in parallel



Forking the Project:

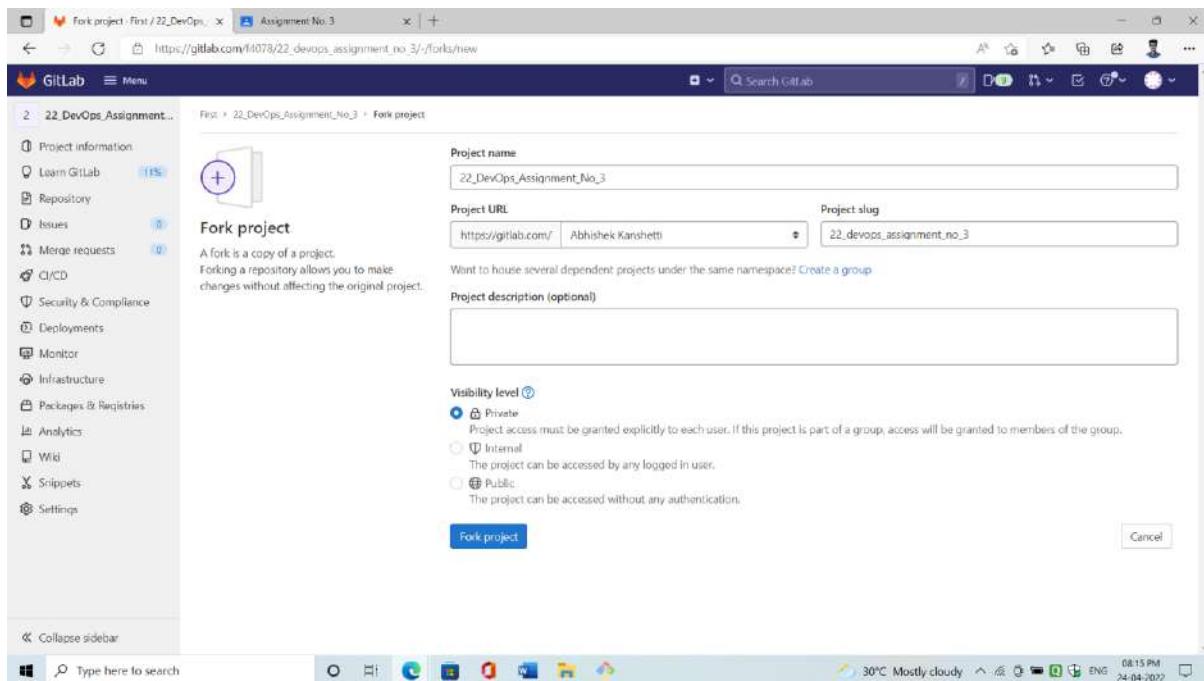


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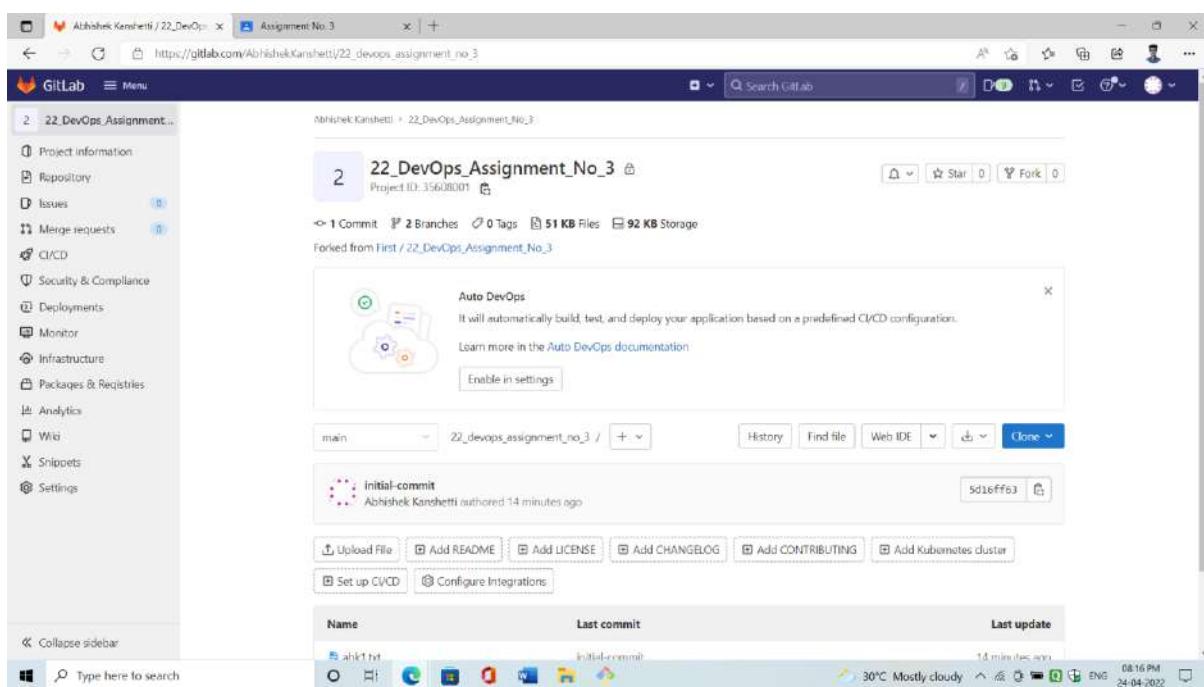
Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.



Forked the Project:



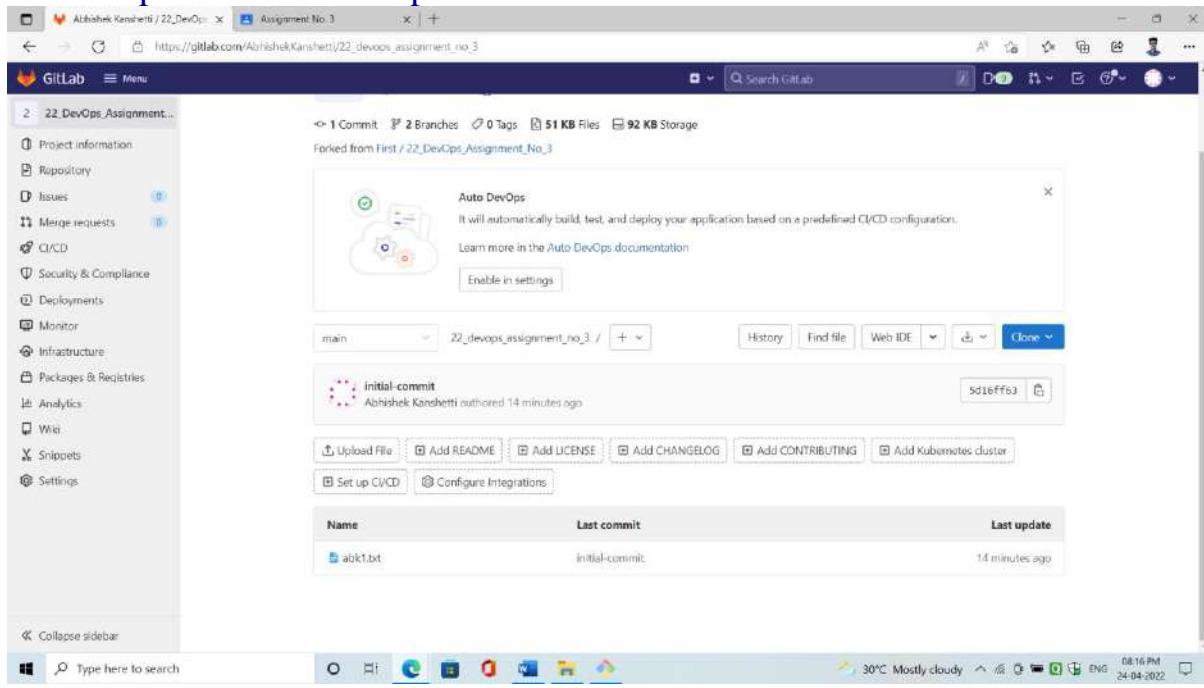
WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
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Name: Abhishek Basavraj Kanshetti

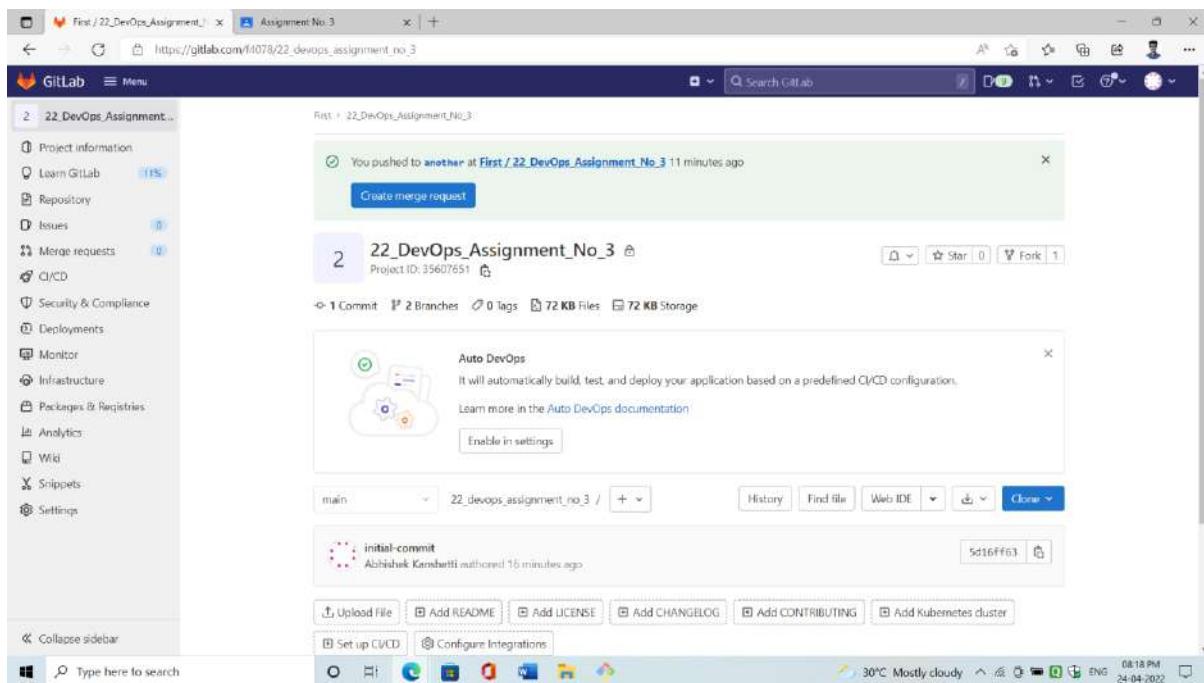
Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.



The screenshot shows a GitLab project page for 'Assignment No. 3'. The sidebar on the left lists various project management options like Project information, Repository, Issues, Merge requests, CI/CD, etc. The main content area displays basic project statistics: 1 Commit, 2 Branches, 0 Tags, 51 KB Files, 92 KB Storage. It also shows that the project was forked from 'First / 22_DevOps_Assignment_No_3'. A prominent feature is the 'Auto DevOps' section, which provides a summary of the CI/CD configuration and links to enable it. Below this, a commit history is shown with one entry: 'initial-commit' by 'Abhishek Kanshetti' 14 minutes ago. A file named 'abk1.txt' is listed under the commit. At the bottom of the page, there are buttons for Uploading files, Adding README, LICENSE, CHANGELOG, CONTRIBUTING, and Kubernetes cluster, along with Set up CI/CD and Configure Integrations.



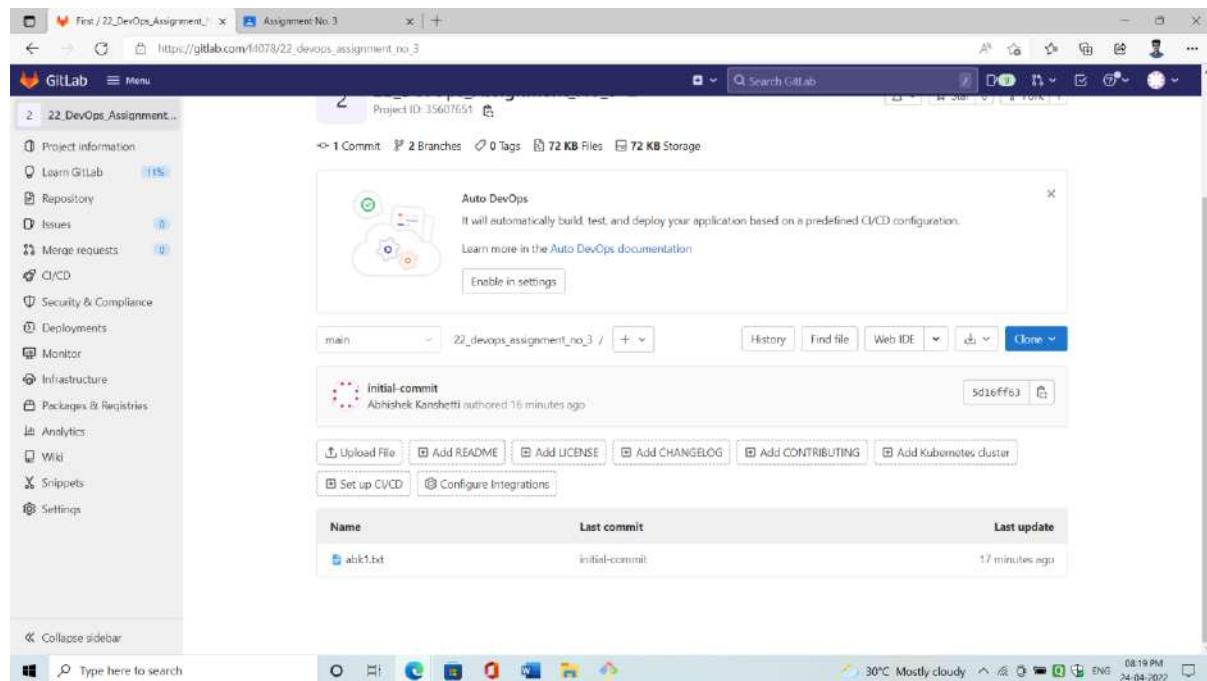
This screenshot shows the same 'Assignment No. 3' project page as above, but with a notification message: 'You pushed to another at First / 22_DevOps_Assignment_No_3' 11 minutes ago. A 'Create merge request' button is visible. The rest of the interface is identical to the first screenshot, including the Auto DevOps section and the commit history for 'initial-commit' by 'Abhishek Kanshetti' 16 minutes ago.

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Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

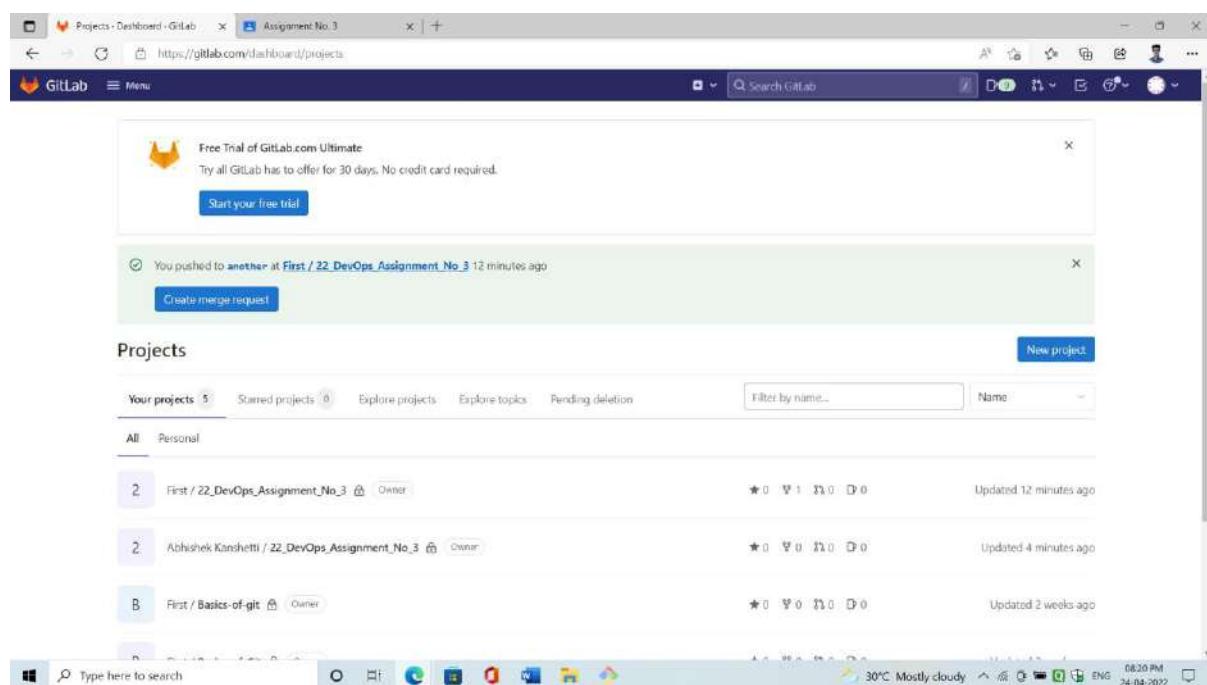
Roll No: 22

Title: Implement GitLab Operations.



A screenshot of a GitLab project page titled "Assignment No. 3". The sidebar on the left lists various project management sections. The main area shows a single commit named "initial-commit" by "Abhishek Kanshetti" made 16 minutes ago. A modal window titled "Auto DevOps" is open, explaining that it will automatically build, test, and deploy the application based on predefined CI/CD configuration. It includes a "Enable in settings" button. Below the commit, there are options to upload files, add README, LICENSE, CHANGELOG, CONTRIBUTING, and Kubernetes cluster. A table at the bottom shows the file "ahk1.txt" with its details: Name, Last commit, and Last update.

Forked Project Can be seen in our Repository:



A screenshot of the GitLab dashboard. A prominent pop-up window offers a "Free Trial of GitLab.com Ultimate" for 30 days with no credit card required, with a "Start your free trial" button. Below this, a message通知 says "You pushed to another at First / 22_DevOps_Assignment_No_3 12 minutes ago" with a "Create merge request" button. The main dashboard shows a list of projects under "Your projects": "First / 22_DevOps_Assignment_No_3" (Owner), "Abhishek Kanshetti / 22_DevOps_Assignment_No_3" (Owner), and "First / Basics-of-git" (Owner). Each project has a star rating of 0, 1 review, 31.0 stars, and 0 forks. The last update for each was 12 minutes ago, 4 minutes ago, and 2 weeks ago respectively. The status bar at the bottom indicates it's 30°C, mostly cloudy, and the date is 24-04-2022.

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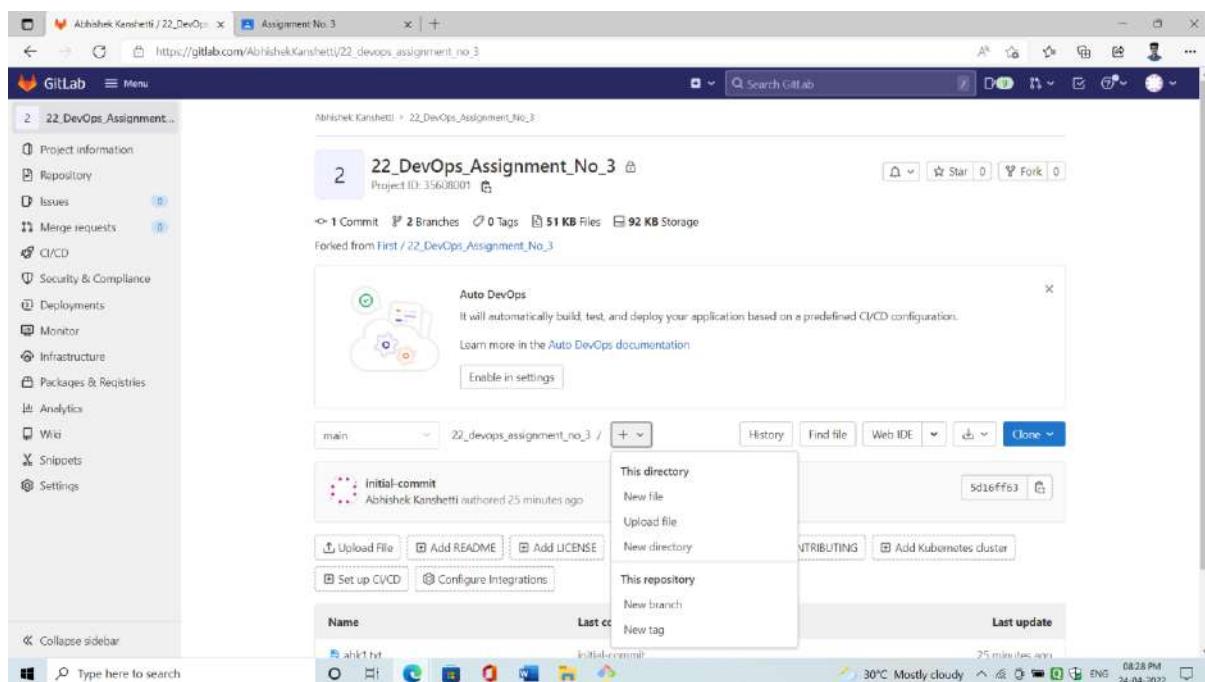
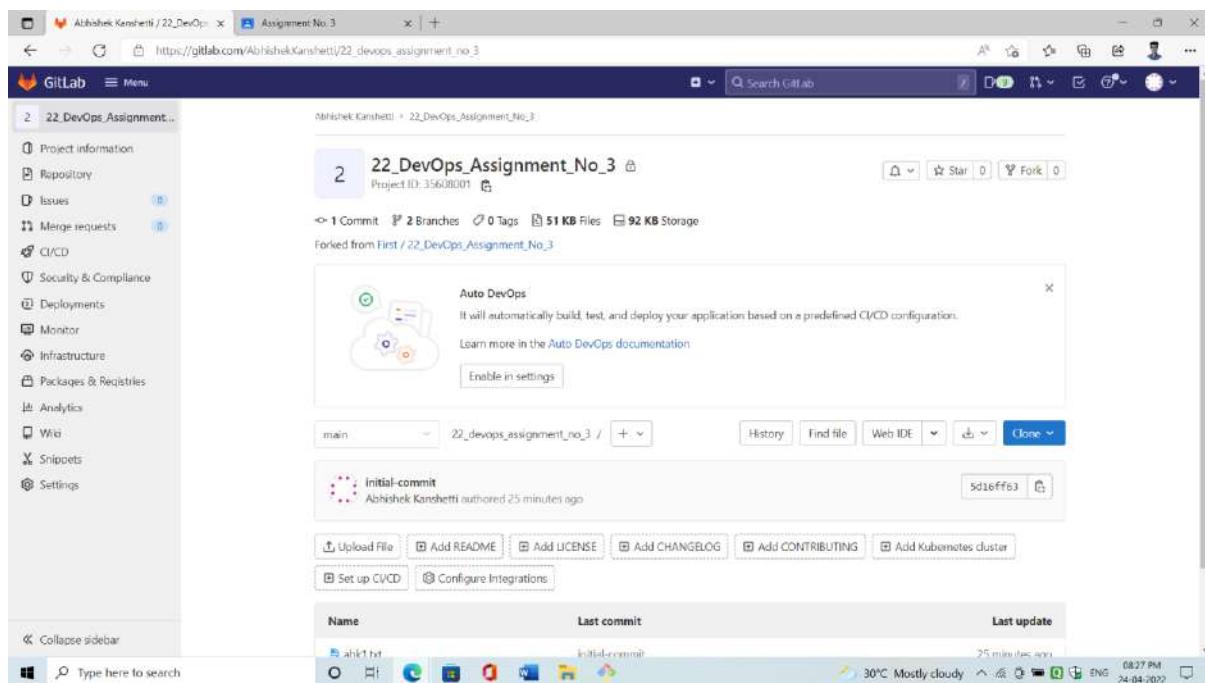
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

4)Add a file, to add new files to a project's repository



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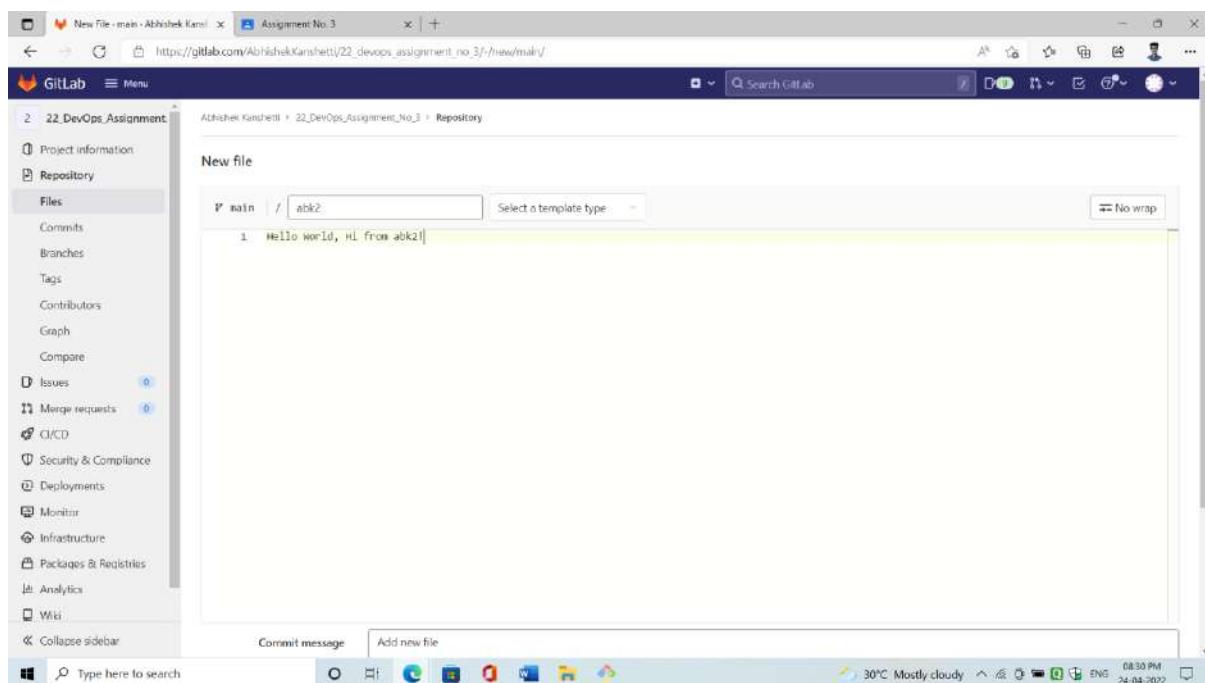
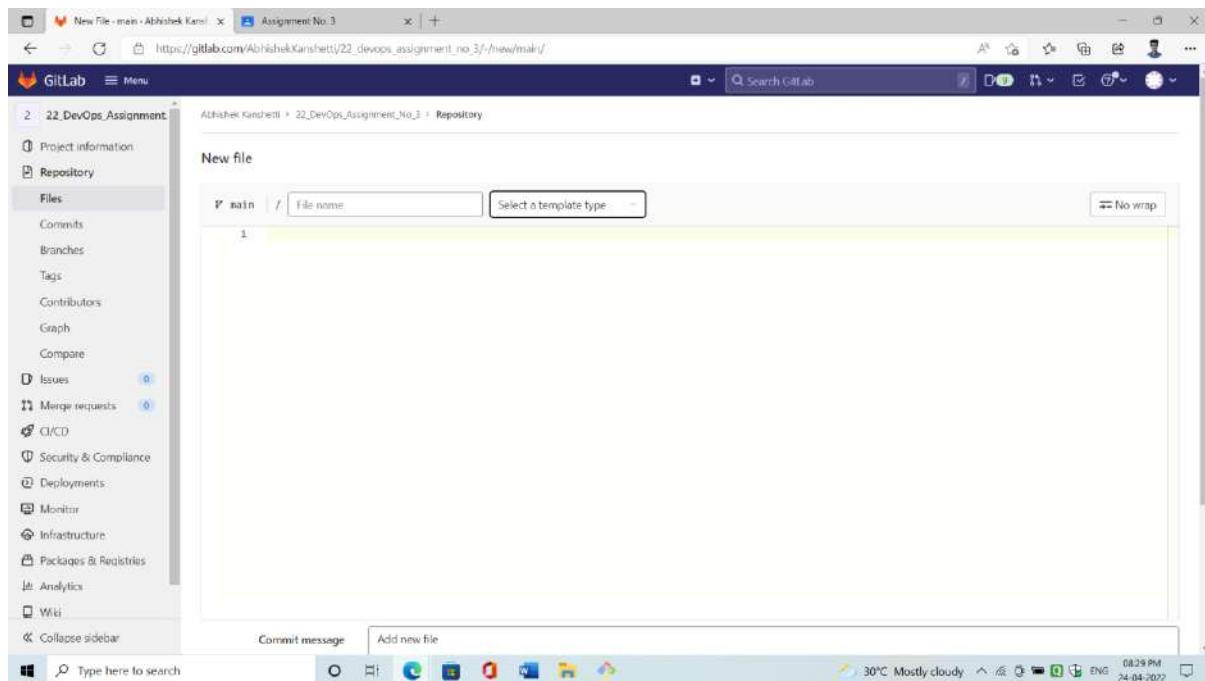
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Adding the new file:



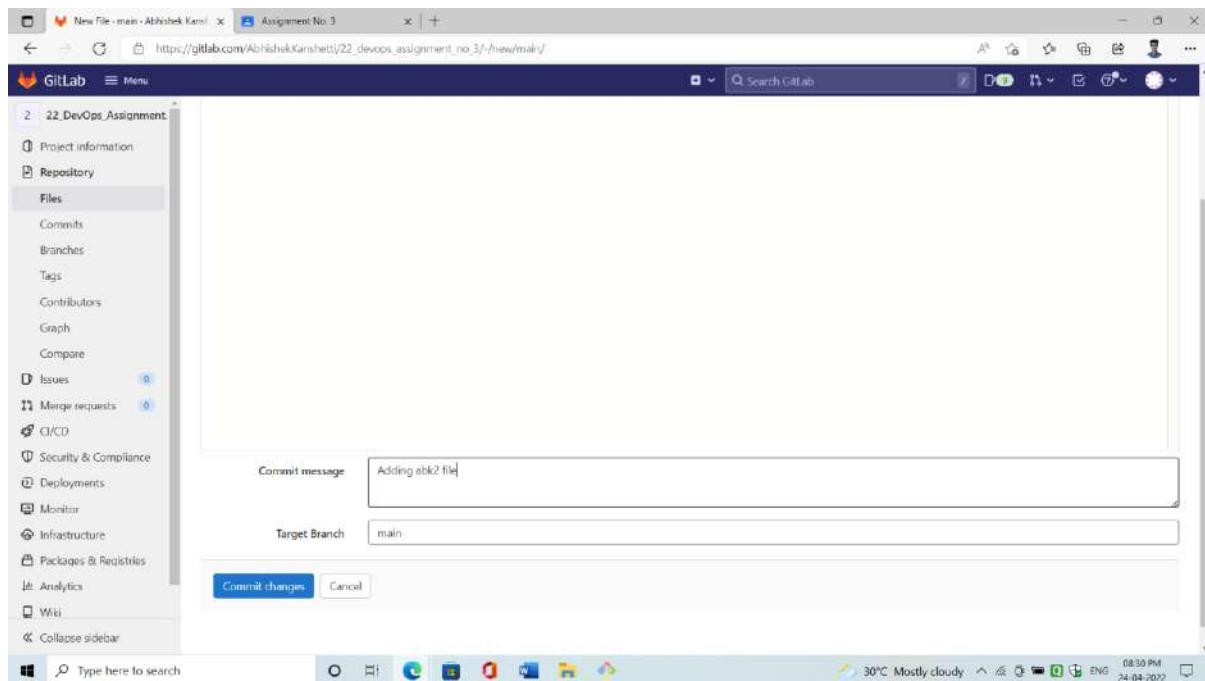
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DEVOPS

Name: Abhishek Basavraj Kanshetti

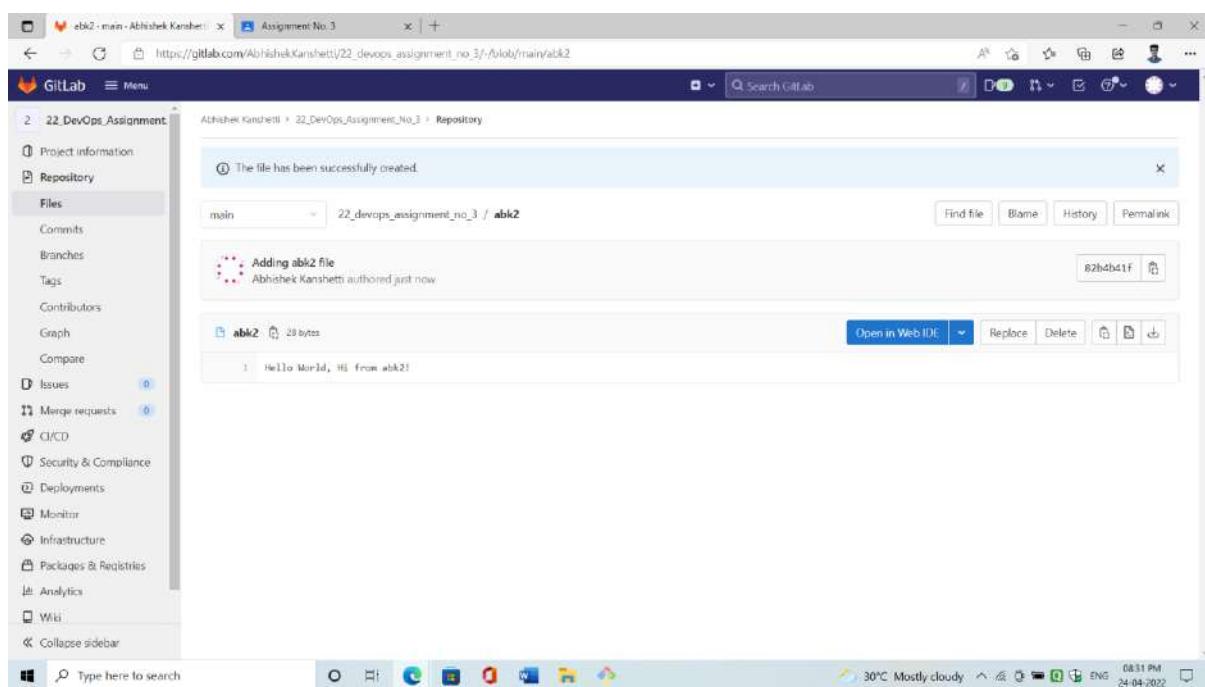
Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.



Added the new file abk2



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ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.

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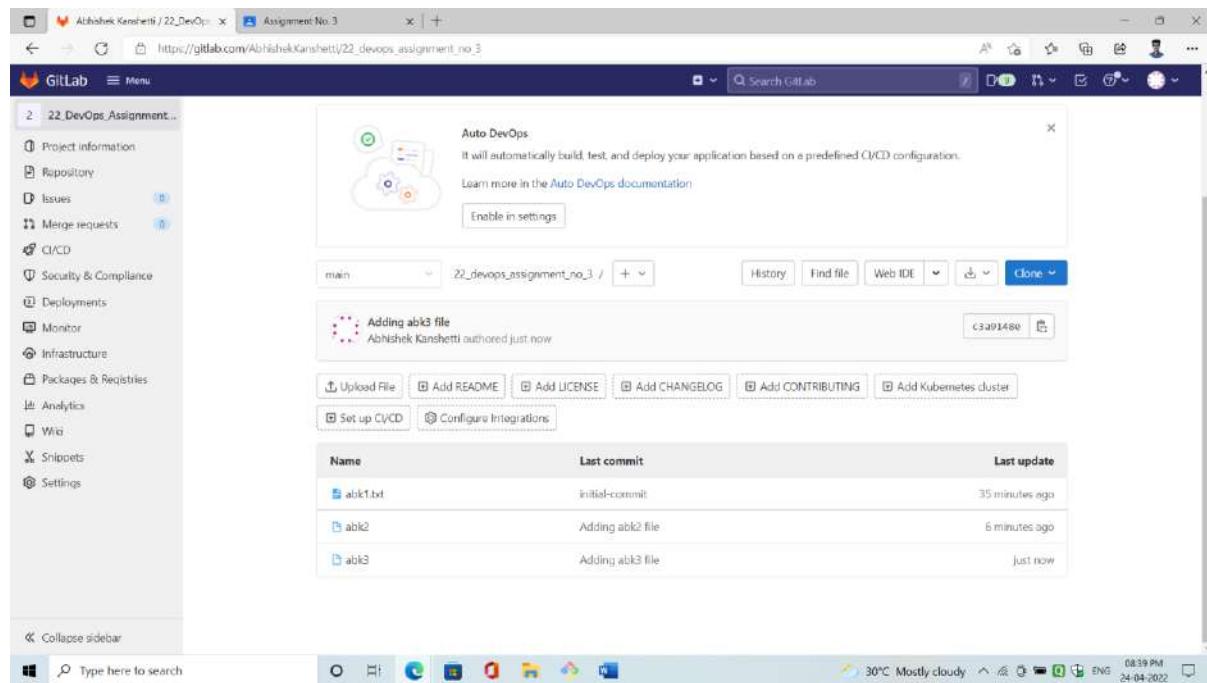
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Added another file Named abk3:



The screenshot shows a Microsoft Edge browser window with a GitLab project titled "Assignment No. 3". The main content area displays a commit message: "Adding abk3 file" by "Abhishek Kanshetti" just now. Below the commit message are several buttons: "Upload File", "Add README", "Add LICENSE", "Add CHANGELOG", "Add CONTRIBUTING", "Add Kubernetes cluster", "Set up CI/CD", and "Configure Integrations". To the left, a sidebar lists project navigation options: Project information, Repository, Issues, Merge requests, CI/CD, Security & Compliance, Deployments, Monitor, Infrastructure, Packages & Registries, Analytics, Wiki, Snippets, and Settings. A tooltip for "Auto DevOps" is displayed, stating: "It will automatically build, test, and deploy your application based on a predefined CI/CD configuration." The status bar at the bottom shows system information: 30°C Mostly cloudy, ENG, 08:39 PM, 24-04-2022.

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Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.

5)Rebase Operation

```

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
$ git config -l
diff.guitool=git-diff-highlight
filter.lfs.smudge=git-lfs smudge -- -Sf
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslcainfo=/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential https://dev.azure.com.uschtopath=true
http.sslcainfo=/etc/ssl/certs/ca-bundle.crt
user.name=Abhishek Basavraj Kanshetti
user.username=AbhishekKanshetti
user.password=https://gitlab.com/provider-generic
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.ignoreupdates=true
core.symlinks=false
core.ignorecase=true
remote.origin.url=https://gitlab.com/F4078/22_devops_assignment_no_3.git
remote.origin.fetch+=refs/heads/*:refs/origin/*
branch.main.remote=origin
branch.main.merge=refs/heads/main

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git status
On branch main
your branch is up to date with 'origin/main'.
nothing to commit, working tree clean

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* main

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git checkout -b another
Switched to a new branch 'another'

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (another)
$ git rebase -i HEAD~2
[rebase]

```

Creating new branch Named another:

```

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
$ git config -l
filter.lfs.smudge=git-lfs smudge -- -Sf
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslcainfo=/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential https://dev.azure.com.uschtopath=true
http.sslcainfo=/etc/ssl/certs/ca-bundle.crt
user.name=Abhishek Basavraj Kanshetti
user.username=AbhishekKanshetti
user.password=https://gitlab.com/provider-generic
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.ignoreupdates=true
core.symlinks=false
core.ignorecase=true
remote.origin.url=https://gitlab.com/F4078/22_devops_assignment_no_3.git
remote.origin.fetch+=refs/heads/*:refs/origin/*
branch.main.remote=origin
branch.main.merge=refs/heads/main

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git status
On branch main
your branch is up to date with 'origin/main'.
nothing to commit, working tree clean

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* main

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git checkout -b another
Switched to a new branch 'another'

MINGW64 /f/fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (another)
$ git rebase -i HEAD~2
[rebase]

```

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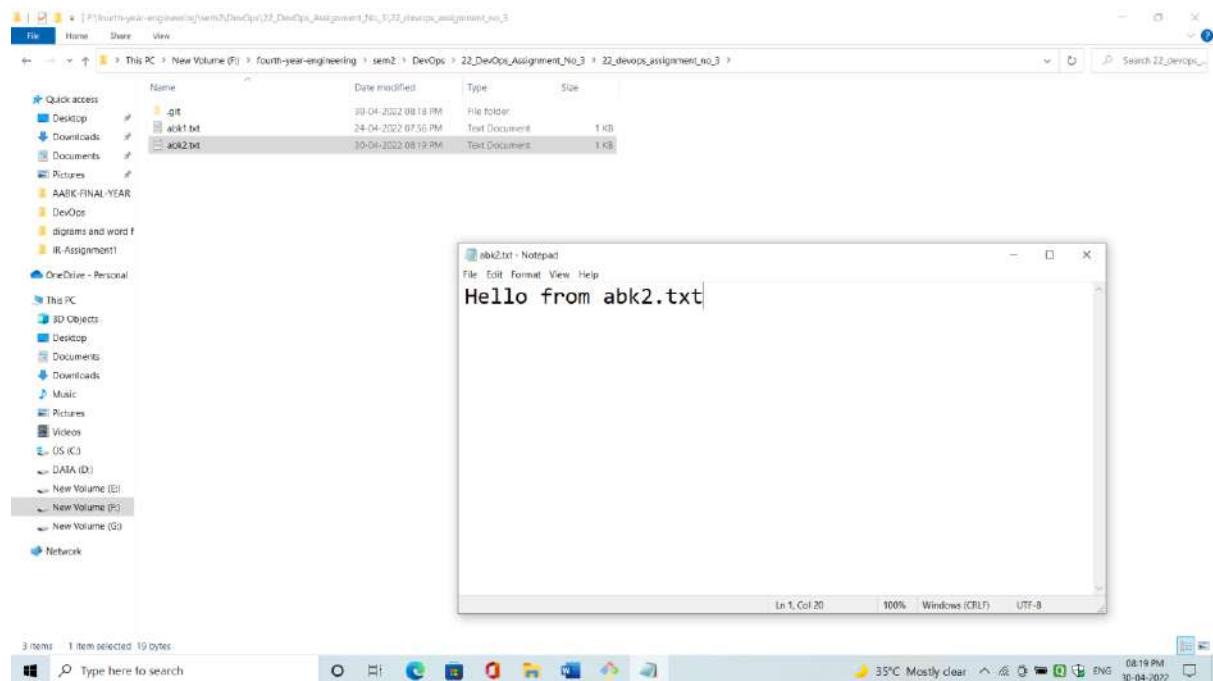
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Creating new file named abk2.txt:



Pushing the file abk2.txt:

```

MINGW64 / fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 % git add .
MINGW64 / fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 % git commit -m "adding abk2.txt file"
MINGW64 / fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 % git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), done.
Total 4 (delta 0), reused 0 from pack.
To https://gitlab.com/f407872/devops_assignment_no_3.git
   5d16f16..2b785a7 main > main
MINGW64 / fourth-year-engineering/sen2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 %

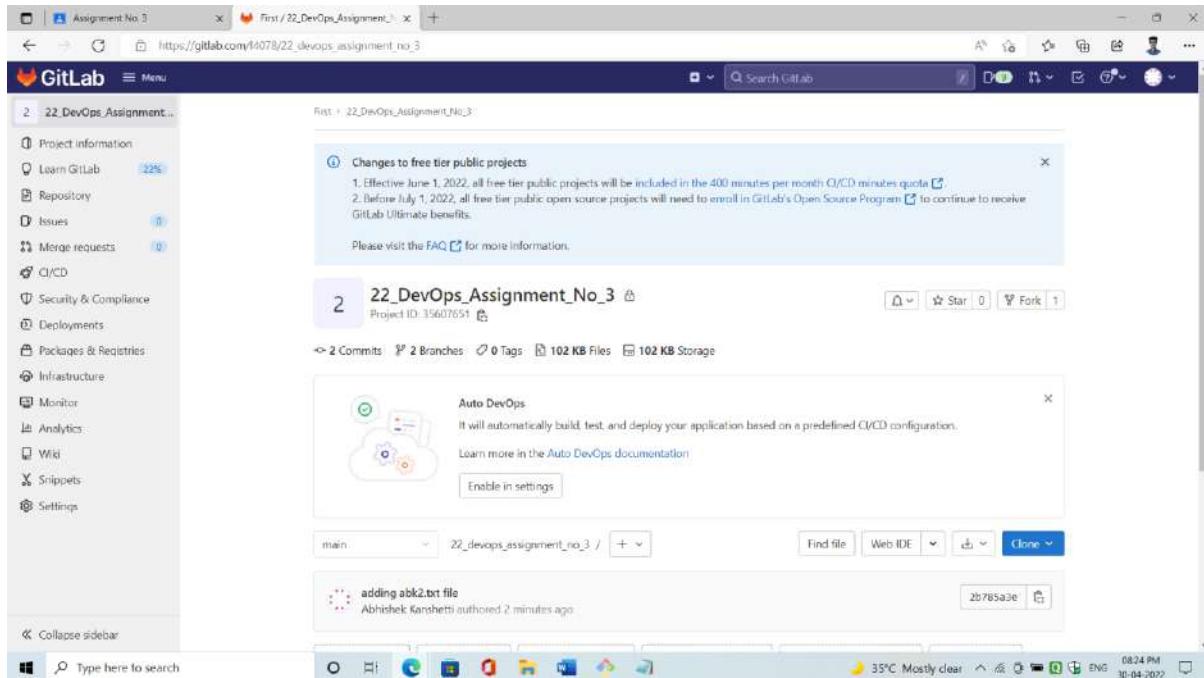
```

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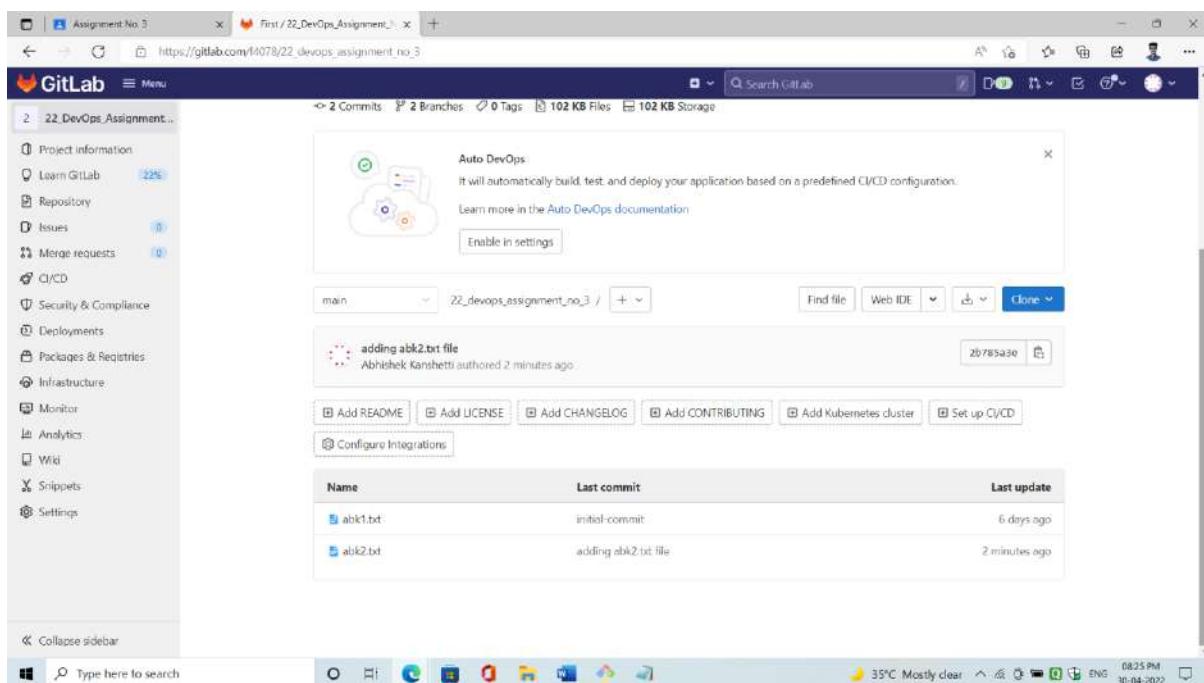
Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.



Checking file on remote Repository:

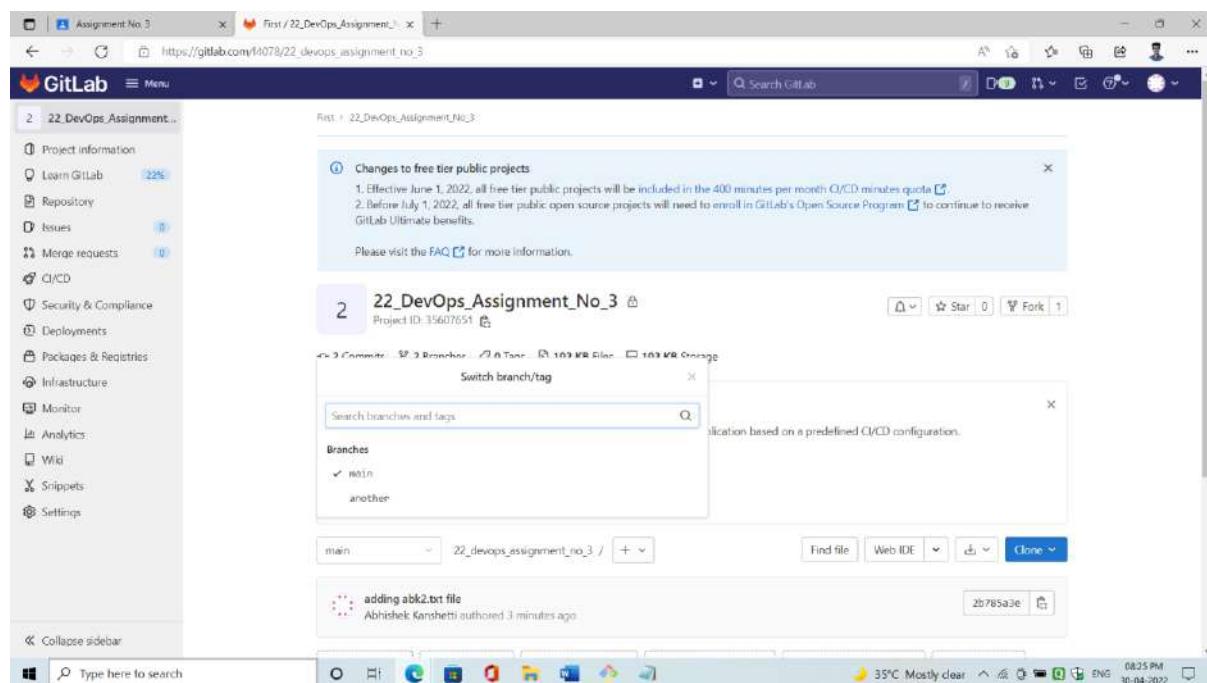
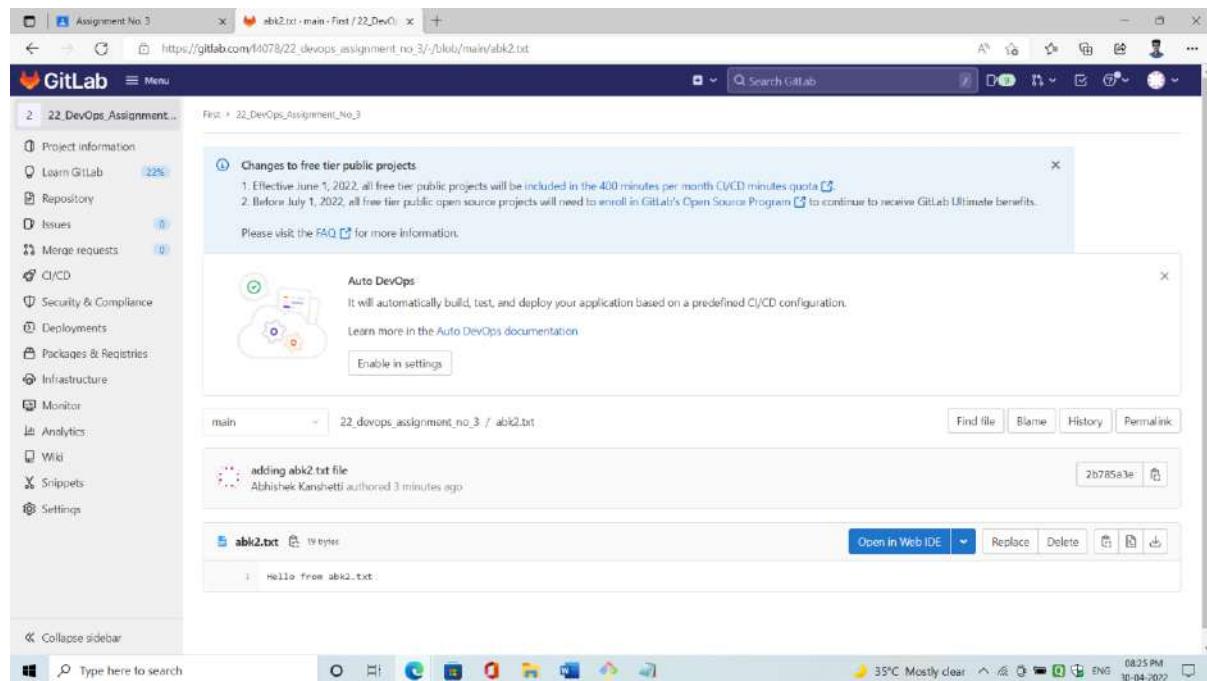


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Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.

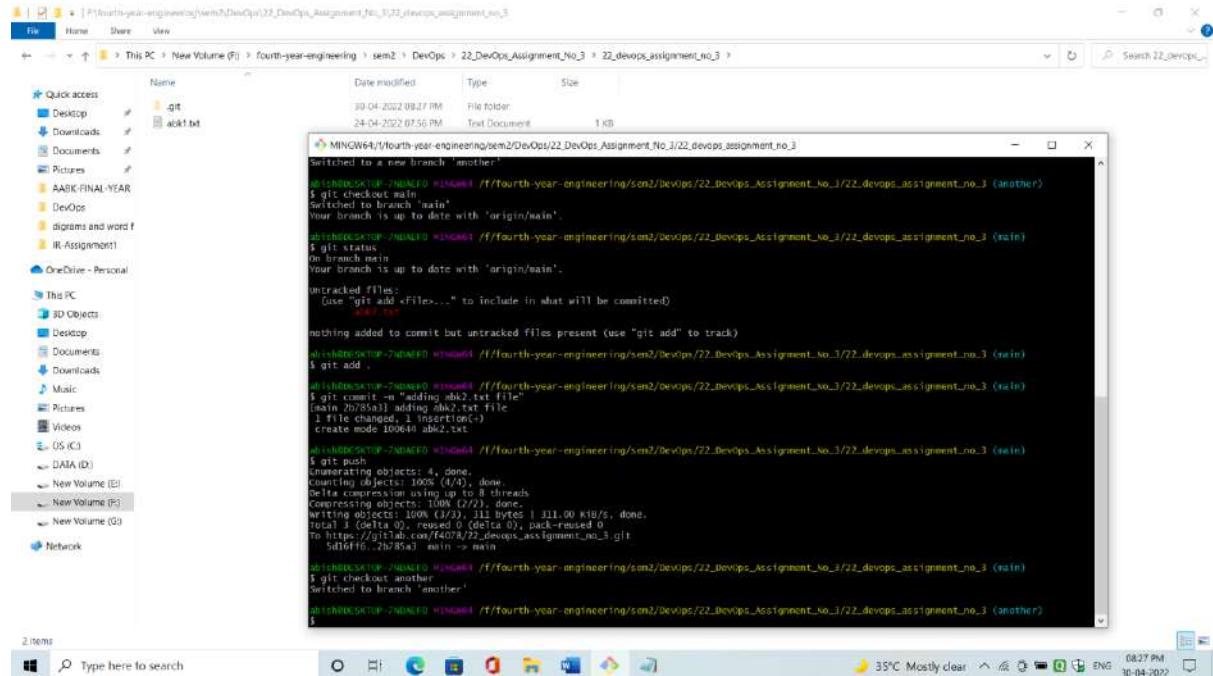


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Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.



```

MINGH64\1\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3> git status
Switched to a new branch 'another'
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
nothing added to commit but untracked file present (use "git add" to track)

MINGH64\1\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3> git add .
nothing added to commit (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked file present (use "git add" to track)

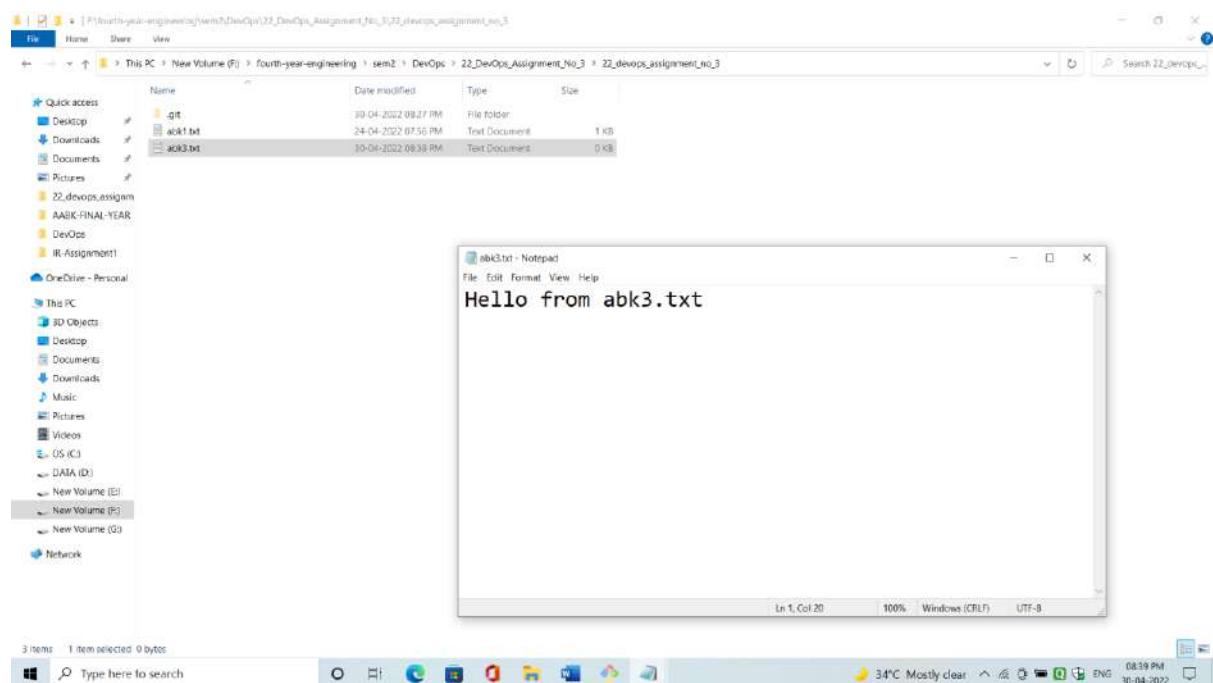
MINGH64\1\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3> git commit -m "adding abk2.txt file"
[main 2b755e3] adding abk2.txt file
1 file changed, 1 insertion(+)
create mode 100644 abk2.txt

MINGH64\1\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3> git push
Enumerating objects: 4, done.
Counting objects: 4 (Delta: 0), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), done.
Total 3 (delta 0), pack-reused 0
To https://gitlab.com/f4078/22_devops_assignment_no_3.git
  8d16f6c..2b755e3  main -> main

MINGH64\1\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3> git checkout another
Switched to branch 'another'

MINGH64\1\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3>

```



```

Hello from abk3.txt

```

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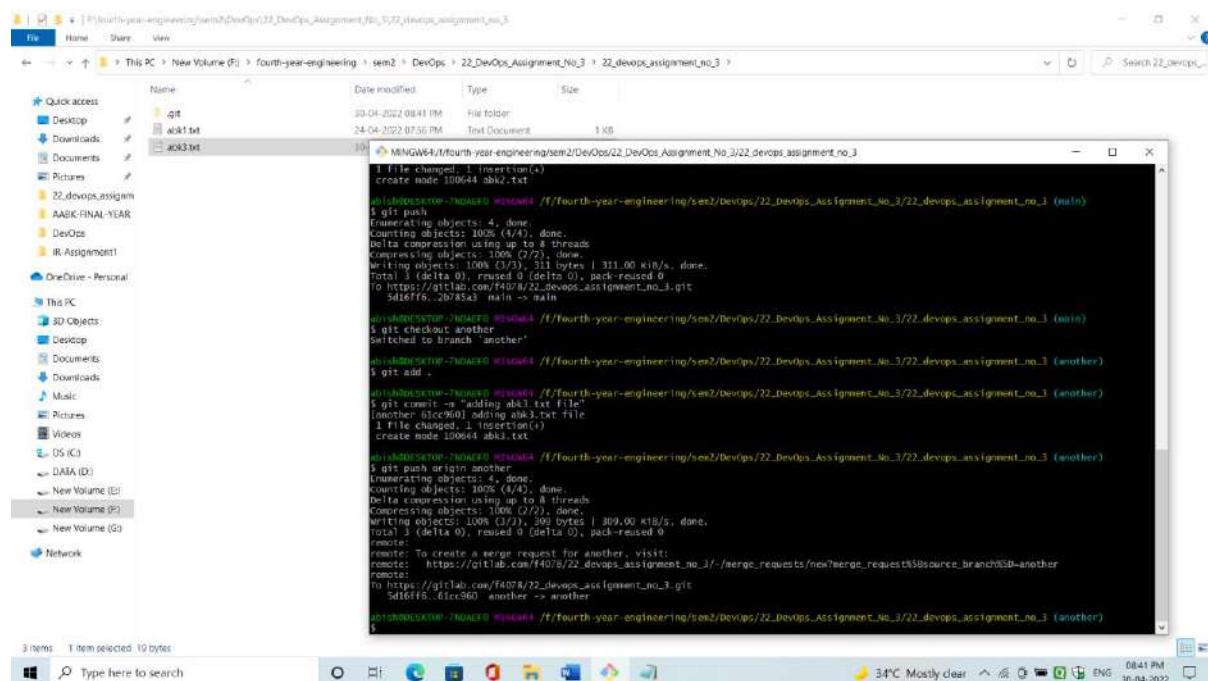
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Created new file and pushed file through Branch Named “another”:



```

        MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
        I 1 file changed, 1 insertion(+)
        create mode 100644 abk1.txt

        git push
        Counting objects: 4, done.
        Delta compression using up to 8 threads
        Compressing objects: 100% (4/4), done.
        Writing objects: 100% (4/4), done.
        Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
        To https://gitlab.com/F4076/22_devops_assignment_no_3.git
          5d16f16... another > main -> main

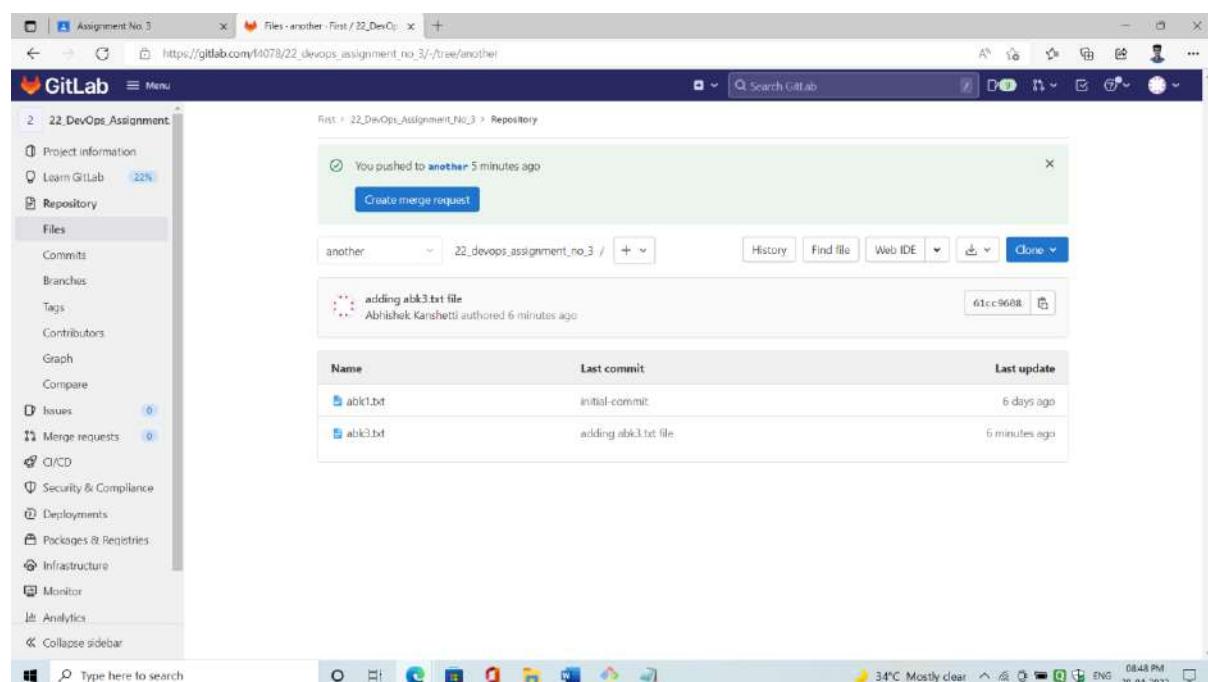
        git checkout another
        Switched to branch 'another'

        git add .
        git commit -m "adding abk3.txt file"
        another 61cc9680 adding abk3.txt file
        1 file changed, 1 insertion(+)
        create mode 100644 abk3.txt

        git push
        Counting objects: 4, done.
        Delta compression using up to 8 threads
        Compressing objects: 100% (2/2), done.
        Writing objects: 100% (2/2), done.
        Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
        remote: To create a merge request for another, visit:
        remote:   https://gitlab.com/F4076/22_devops_assignment_no_3/-/merge_requests/new?merge_request%5Bsource_branch%5D=another
        remote: To push an update to another, visit:
        remote:   https://gitlab.com/F4076/22_devops_assignment_no_3.git
          5d16f16... another -> another

        git push -u another
        Pushed to another
    
```

Checking the file on remote Repository:



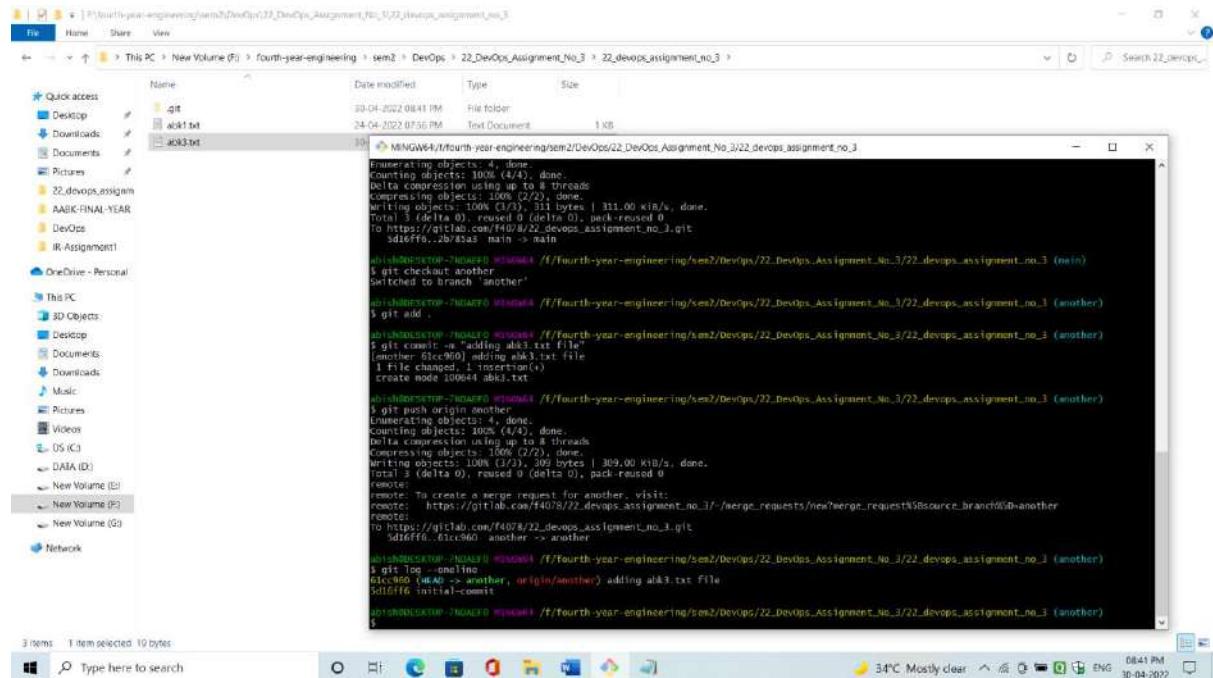
Name	Last commit	Last update
abk1.txt	initial-commit	6 days ago
abk3.txt	adding abk3.txt file	6 minutes ago

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INFORMATION TECHNOLOGY
2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.



```

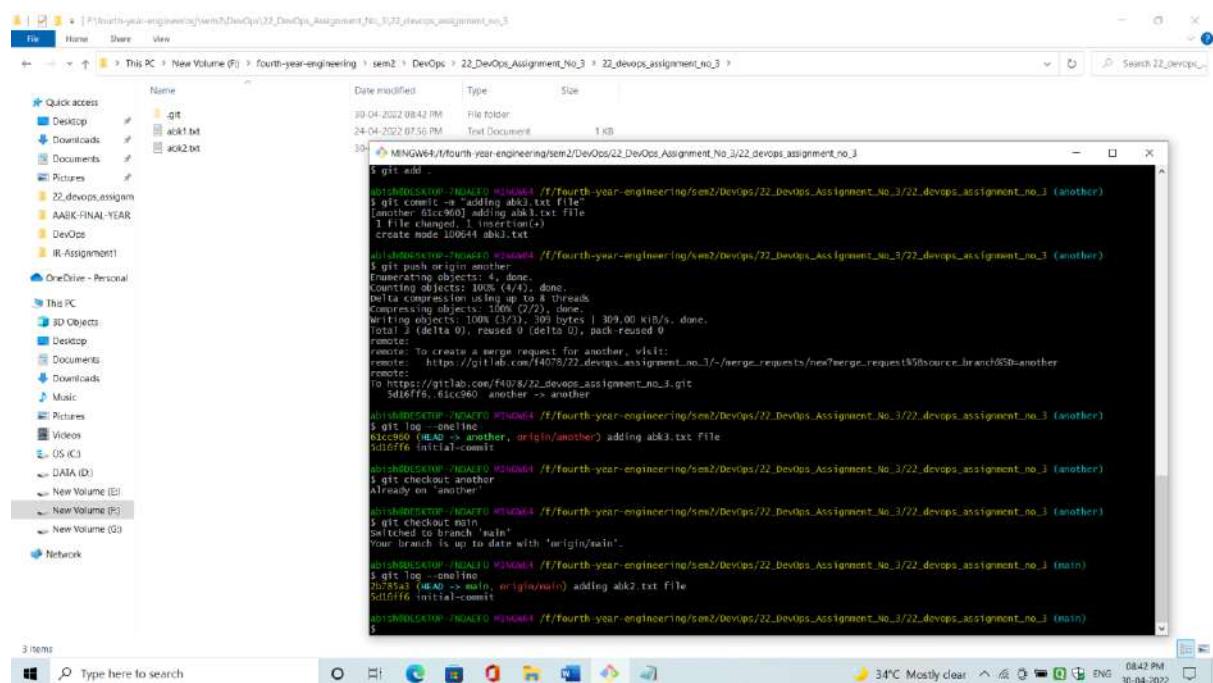
Fourth year engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3

git add .
git commit -m "adding abk3.txt file"
git push origin another
remote: To create a merge request for another, visit:
remote: https://github.com/f4078/22_devops_assignment_no_3/-/merge_requests/new?source_branch=origin/another
remote: f4078/22_devops_assignment_no_3.git
  abk3.txt (HEAD -> another) adding abk3.txt
  1 file changed, 1 insertion(+)
  create mode 100644 abk3.txt

branch 'origin/another' (remote) @ 4078/22_devops_assignment_no_3 (another)
branch 'origin/main' (local) @ 4078/22_devops_assignment_no_3 (main)
  abk3.txt (HEAD -> main) adding abk3.txt
  1 file changed, 1 insertion(+)
  create mode 100644 abk3.txt

branch 'origin/main' @ 4078/22_devops_assignment_no_3 (main)
  abk3.txt (HEAD -> main, origin/main) adding abk3.txt
  1 file changed, 1 insertion(+)
  create mode 100644 abk3.txt

```



```

Fourth year engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3

git add .
git commit -m "adding abk2.txt file"
git push origin another
remote: To create a merge request for another, visit:
remote: https://github.com/f4078/22_devops_assignment_no_3/-/merge_requests/new?source_branch=origin/another
remote: f4078/22_devops_assignment_no_3.git
  abk2.txt (HEAD -> another) adding abk2.txt
  1 file changed, 1 insertion(+)
  create mode 100644 abk2.txt

branch 'origin/another' (remote) @ 4078/22_devops_assignment_no_3 (another)
branch 'origin/main' (local) @ 4078/22_devops_assignment_no_3 (main)
  abk2.txt (HEAD -> main) adding abk2.txt
  1 file changed, 1 insertion(+)
  create mode 100644 abk2.txt

branch 'origin/main' @ 4078/22_devops_assignment_no_3 (main)
  abk2.txt (HEAD -> main, origin/main) adding abk2.txt
  1 file changed, 1 insertion(+)
  create mode 100644 abk2.txt

```

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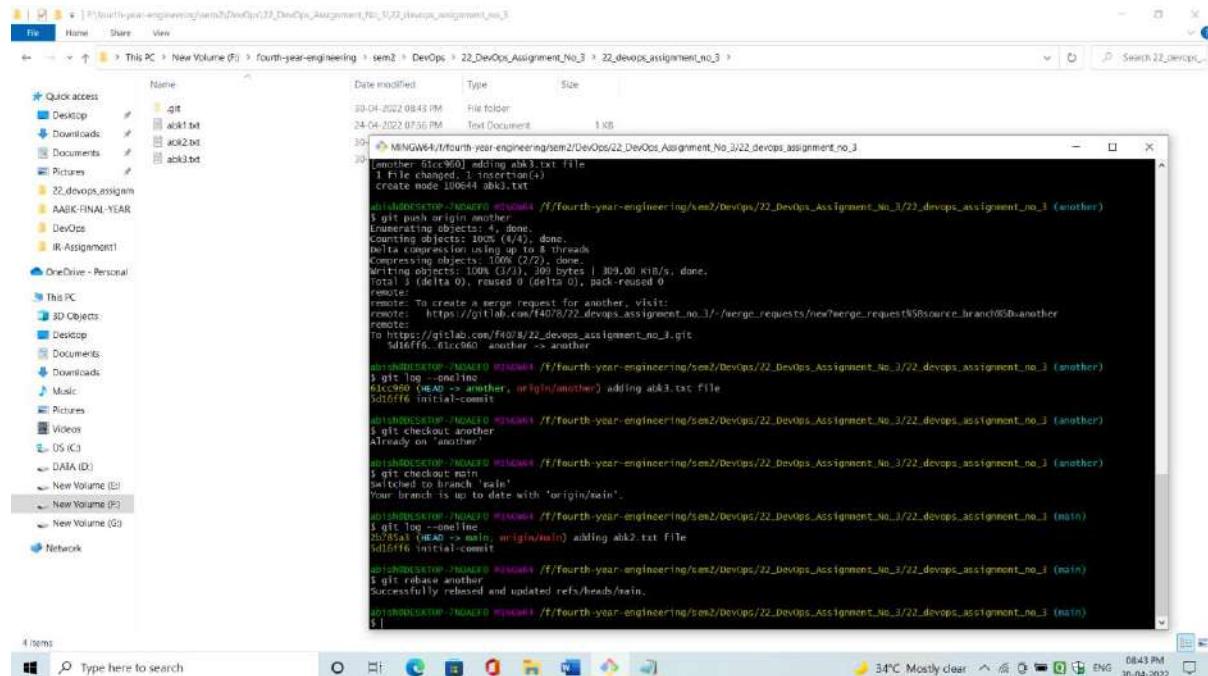
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

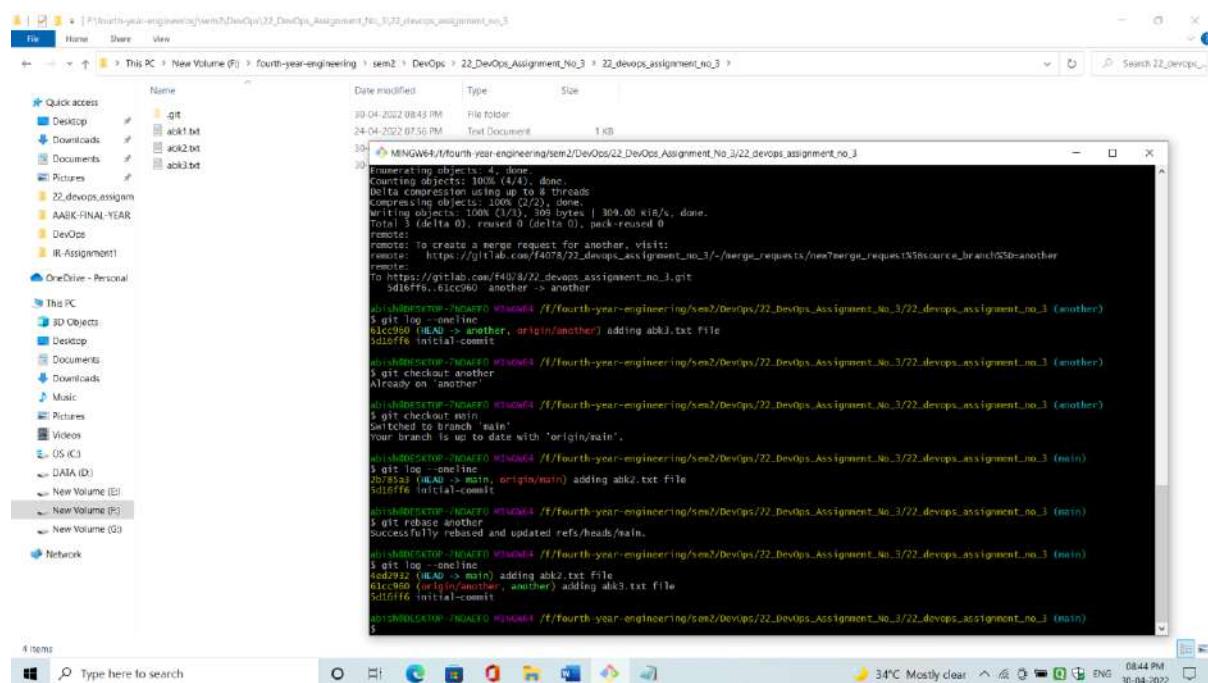
Checked out to main branch and rebased the branch named another:



```

git clone https://gitlab.com/14078/22_devops_assignment_no_3/22_devops_assignment_no_3.git
git checkout another
git add abk1.txt
git add abk2.txt
git add abk3.txt
git commit -m "Adding abk3 file"
git checkout main
git merge --no-ff another
git add abk2.txt
git add abk3.txt
git commit -m "Adding abk2 and abk3 file"
git rebase another
git push origin main

```



```

git clone https://gitlab.com/14078/22_devops_assignment_no_3/22_devops_assignment_no_3.git
git checkout another
git add abk1.txt
git add abk2.txt
git add abk3.txt
git commit -m "Adding abk3 file"
git checkout main
git merge --no-ff another
git add abk2.txt
git add abk3.txt
git commit -m "Adding abk2 and abk3 file"
git rebase another
git push origin main

```

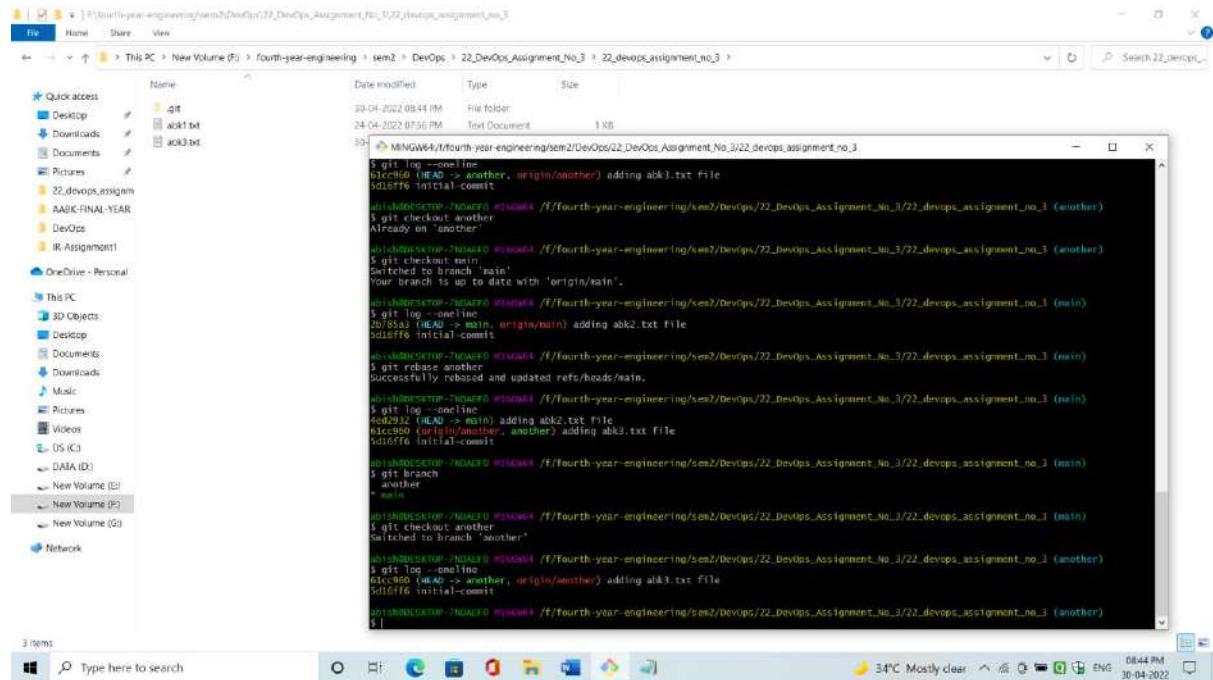
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The screenshot shows a Windows desktop environment. In the foreground, a terminal window is open with the following command history:

```
git add -A
git commit -m "another, origin/another3 adding abk1.txt file"
git diff --initial-commit
git checkout another
Already on 'another'
git add -A
git commit -m "another, origin/another3 adding abk2.txt file"
git checkout main
Your branch is up to date with 'origin/main'.
git add -A
git commit -m "main, origin/main adding abk2.txt file"
git diff --initial-commit
git checkout main
Successfully rebased and updated refs/heads/main.
git add -A
git commit -m "main, origin/main adding abk3.txt file"
git diff --initial-commit
git branch
* another
...
git checkout another
Switched to branch 'another'
git add -A
git commit -m "another, origin/another3 adding abk3.txt file"
git diff --initial-commit
git checkout main
Your branch is up to date with 'origin/main'.
```

Below the terminal, a File Explorer window is open at the path: This PC > New Volume (F) > fourth-year-engineering > sem2 > DevOps > 22_DevOps_Assignment_No_3 > 22_devops_assignment_no_3. It shows two files: abk1.txt and abk3.txt.

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6) Squashing Commits

Checking the log:

This PC > New Volume (F) > fourth-year-engineering > sem2 > DevOps > 22_DevOps_Assignment_(No_3) > 22_devops_assignment_no_3

Quick access	Name	Date modified	Type	Size
Desktop	# git	20-04-2022 08:51 PM	File folder	
Downloads	ak01.txt	24-04-2022 07:56 PM	Text Document	1 KB
Documents	ak02.txt			
Pictures	ak03.txt			
22_devops_assignment				
AABIK-FINAL-YEAR				
DevOps				
IR-Assignment1				
OneDrive - Personal				
This PC				
3D Objects				
Desktop				
Documents				
Downloads				
Music				
Pictures				
Videos				
OS (C)				
DATA (D)				
New Volume (E)				
New Volume (F)				
Network				

```
MINGW64\~/fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_(No_3)\22_devops_assignment_no_3
$ git log --oneline
<dd232 (HEAD -> main) adding ak02.txt file
6cc950 (origin/another, another) adding ak03.txt file
5d16f6 initial-commit

MINGW64\~/fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_(No_3)\22_devops_assignment_no_3 (main)
$ git branch
* main
another
* main

MINGW64\~/fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_(No_3)\22_devops_assignment_no_3 (main)
$ git checkout another
Switched to branch 'another'

MINGW64\~/fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_(No_3)\22_devops_assignment_no_3 (another)
$ git log --oneline
6cc950 (HEAD -> another, origin/another) adding ak03.txt file
5d16f6 initial-commit

MINGW64\~/fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_(No_3)\22_devops_assignment_no_3 (another)
$ git checkout main
Already on 'main'

MINGW64\~/fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_(No_3)\22_devops_assignment_no_3 (another)
$ git checkout main
Switched to branch 'main'
Your branch and 'origin/main' have diverged.
They have 2 and 1 different commits each, respectively.
  (use 'git pull' to merge the remote branch into yours)

MINGW64\~/fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_(No_3)\22_devops_assignment_no_3 (main)
$ git pull
Merge made by the 'ort' strategy.

MINGW64\~/fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_(No_3)\22_devops_assignment_no_3 (main)
$ git log --oneline
<dd232 (HEAD -> main) Merge branch 'main' of https://github.com/f4078/22-devops_assignment_no_3
<dd232 adding ak02.txt file
6cc950 (origin/another, another) adding ak03.txt file
7078fa3 (origin/main) adding ak02.txt file
5d16f6 initial-commit

MINGW64\~/fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_(No_3)\22_devops_assignment_no_3 (main)
$
```

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ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Given the command for squashing the two commits as follow:

This PC > fourth-year-engineering > sem2 > DevOps > 22_DevOps_Assignment_No_3 > 22_devops_assignment_no_3

Quick access	Name	Date modified	Type	Size
Desktop	# .git	30-04-2022 08:51 AM	File folder	
Downloads	ak01.txt	24-04-2022 07:56 PM	Text Document	1 KB
Documents	ak02.txt			
Pictures	ak03.txt			
22_demos_assignment				
AAIK-FINAL-YEAR				
DevOps				
IR-Assessment1				
OneDrive - Personal				
This PC				
3D Objects				
Desktop				
Documents				
Downloads				
Music				
Pictures				
Videos				
OS (C)				
DATA (D)				
New Volume (E)				
New Volume (F)				
New Volume (G)				
Network				

```
MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_3 / 22_devops_assignment_no_3
$ git log --oneline
4ed2932 (HEAD -> main) adding ak02.txt file
61cc960 (origin/another, another) adding ak03.txt file
5d0f7f6 initial-commit

MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_3 / 22_devops_assignment_no_3 (main)
$ git branch
* main
  another

MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_3 / 22_devops_assignment_no_3 (main)
$ git checkout another
Switched to branch 'another'

MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_3 / 22_devops_assignment_no_3 (another)
$ git add .
61cc960 (HEAD -> another, origin/another) adding ak03.txt file
5d0f7f6 initial-commit

MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_3 / 22_devops_assignment_no_3 (another)
$ git checkout main
Switched to branch 'main'
Already on 'main'

MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_3 / 22_devops_assignment_no_3 (another)
$ git checkout main
Switched to branch 'main'
Your branch and 'origin/main' have diverged,
and have 2 and 0 different commits each, respectively.
  (use "git pull" to merge the remote branch into yours)

MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_3 / 22_devops_assignment_no_3 (main)
$ git add .
4d2d32c adding ak02.txt file
61cc960 (origin/another, another) adding ak03.txt file
5d0f7f6 (origin/main) adding ak02.txt file
5d0f7f6 initial-commit

MINGW64 / / fourth-year-engineering / sem2 / DevOps / 22_DevOps_Assignment_No_3 / 22_devops_assignment_no_3 (main)
$ git release -1 HEAD~2
```

Press i to insert:

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Roll No: 22

Title: Implement GitLab Operations.
 Replaced the second pick by “squash”:

```

git
ak1.txt
ak2.txt
ak3.txt
MINGW64/fourth-year-engineering/nmr2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
pick 4ab942 adding ak2.txt
squash 26f63a adding ak3.txt
Rebase b1cc960...22bbad8 onto b1cc960 (2 commands)

Commands:
p, pick <commit> - use commit
r, reward <commit> - use commit, but edit the commit message
e, edit <commit> - use commit, but stop for amending
a, add <commit> - use commit, but stop for amending
f, fixup <commit> - like "squash" but keep only the previous
x, exec <command> - run command (the rest of the line) using shell
b, break - stop here (continue rebase later with "git rebase --continue")
d, drop <commit> - remove commit
l, label <label> - label current HEAD with a name
t, reset <label> - reset HEAD to a label
m, merge <[<commit> | -c <commit>]> <label> [<oneline>]
      create a merge commit using the original merge commit's
      message (or the oneline, if no original merge commit was
      specified); use <-c <commit>> to reward the commit message

These lines can be re-ordered; they are executed from top to bottom.
IF you remove a line here THAT COMMIT WILL BE LOST.
However, if you remove everything, the rebase will be aborted.

```

Then Entered Esc and then “:wq”:

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ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.
 Press i to Insert:

```

P:\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3> git rebase -i HEAD~2
pick abd2912 adding abk2.txt file
squash 2b785a3 adding abk2.txt file
# This is a combination of 2 commits.
# This is the 1st commit message.

# This is the commit message #2:
combination of two commits

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# Date: Sat Apr 30 20:22:14 2022 -0530
# interactive rebase in progress onto 61cc960
# Last commands done (2 commands done):
#   pick abd2912 adding abk2.txt file
#   squash 2b785a3 adding abk2.txt file
# No commands remaining
# You are currently rebasing branch 'main' on '61cc960'.
# Changes to be committed:
#   new file: abk2.txt
#
```

Remove the first commit message and modified the second commit message by “combination of Two commits”:

```

P:\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3> git rebase -i HEAD~2
pick abd2912 adding abk2.txt file
squash 2b785a3 adding abk2.txt file
# This is a combination of 2 commits.
# This is the 1st commit message.

# This is the commit message #2:
combination of two commits

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# Date: Sat Apr 30 20:22:14 2022 -0530
# interactive rebase in progress onto 61cc960
# Last commands done (2 commands done):
#   pick abd2912 adding abk2.txt file
#   squash 2b785a3 adding abk2.txt file
# No commands remaining
# You are currently rebasing branch 'main' on '61cc960'.
# Changes to be committed:
#   new file: abk2.txt
#
```

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Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.

Then Entered Esc and then “:wq”:

```

P:\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3>
File Home Share View
This PC > New Volume (F) > fourth-year-engineering > sem2 > DevOps > 22_DevOps_Assignment_No_3 > 22_devops_assignment_no_3 >
Name Date modified Type Size
git 30-04-2022 08:53 PM File folder
abk1.txt 24-04-2022 07:56 PM Text Document 1 KB
abk2.txt
abk3.txt
MINGW64\>/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3>
This is a combination of 2 commits.
This is the 1st commit message.

This is the commit message #2:
combination of two commits

Please enter the commit message for your changes. Lines starting
with '#' will be ignored, and an empty message aborts the commit.
Date: Sat Apr 30 20:22:14 2022 +0530
interactive rebase in progress; onto 61cc960
Last commands done (2 commands done):
 pick abd2912 adding abk2.txt file
 squash abd2912 adding abk2.txt file
No commits remaining.
You are currently rebasing branch 'main' on '61cc960'.
Changes to be committed:
 new file: abk2.txt

#<empty>

```

Then pressed enter and Screenshot shows Successful Squashing of the commits:

```

P:\fourth-year-engineering\sem2\DevOps\22_DevOps_Assignment_No_3\22_devops_assignment_no_3>
File Home Share View
This PC > New Volume (F) > fourth-year-engineering > sem2 > DevOps > 22_DevOps_Assignment_No_3 > 22_devops_assignment_no_3 >
Name Date modified Type Size
git 30-04-2022 08:53 PM File folder
abk1.txt 24-04-2022 07:56 PM Text Document 1 KB
abk2.txt
abk3.txt
MINGW64\>/f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 >(main)
git checkout main
Switched to branch 'main'
git add abk2.txt
git commit -m "combination of two commits"
git checkout -b another
Switched to branch 'another'
git add abk3.txt
git commit -m "another"
git checkout main
Already on 'main'
git merge another
Merge made by the 'ort' strategy.
git add abk2.txt
git commit -m "main"
Switched to branch 'main'
Your branch and 'origin/main' have diverged.
And have 1 and 1 different commits each (respectively).
(Use 'git pull' to merge the remote branch into yours)
git add abk3.txt
git commit -m "another"
git push -u origin main
Pushed 2 new commits to main (id: 61cc960 / abd2912)
git checkout -b another
git merge main
Merge made by the 'ort' strategy.
git add abk2.txt
git commit -m "another"
git push -u origin another
Pushed 2 new commits to another (id: 61cc960 / abd2912)
git checkout main
git merge another
Merge made by the 'ort' strategy.
git add abk2.txt
git commit -m "main"
git push -u origin main
Pushed 2 new commits to main (id: 61cc960 / abd2912)

```

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Now checking the log and log shows the squashing of the commits:

This screenshot shows a Windows File Explorer window with a Git repository structure. The path is `This PC > New Volume (F) > fourth-year-engineering > sem2 > DevOps > 22_DevOps_Assignment_No_3 > 22_devops_assignment_no_3`. The left sidebar lists drives and network locations. The main pane shows a file named `git` with a detailed terminal log of a Git merge operation.

```
+ git merge -s ours --no-merges abk2.txt
  hint: Waiting for your editor to close the file...
  (detached HEAD f0079e6) combination of two commits
  Date:   Mon Apr 24 13:23:14 2022 +0530
  1 file created, 1 file merged, 0 files removed
  create mode 100644 abk2.txt
successfully rebased and updated refs/heads/main.

+ git log --oneline
f0079e6 (HEAD -> main) combination of two commits
ab1c950 (origin/another, another) adding abk3.txt file
ab1c950 initial-commit

+ git checkout main
Switched to branch 'main'
Your branch and 'origin/main' have diverged.
and have 2 and 0 different commits each, respectively.
  (use 'git pull' to merge the remote branch into yours)

+ git merge -s ours --no-merges abk3.txt
  hint: Waiting for your editor to close the file...
  (detached HEAD f0079e6) combination of two commits
  Date:   Mon Apr 24 13:23:14 2022 +0530
  1 file created, 1 file merged, 0 files removed
  create mode 100644 abk3.txt
successfully rebased and updated refs/heads/main.

+ git log --oneline
f0079e6 (HEAD -> main) combination of two commits
ab1c950 (origin/another, another) adding abk3.txt file
ab1c950 initial-commit

+ git checkout -b main
Switched to a new branch 'main'

+ git merge -s ours --no-merges abk3.txt
  hint: Waiting for your editor to close the file...
  (detached HEAD f0079e6) combination of two commits
  Date:   Mon Apr 24 13:23:14 2022 +0530
  1 file created, 1 file merged, 0 files removed
  create mode 100644 abk3.txt
successfully rebased and updated refs/heads/main.

+ git log --oneline
f0079e6 (HEAD -> main) combination of two commits
ab1c950 (origin/another, another) adding abk3.txt file
ab1c950 initial-commit

+ git checkout main
Switched to branch 'main'

+ git merge -s ours --no-merges abk3.txt
  hint: Waiting for your editor to close the file...
  (detached HEAD f0079e6) combination of two commits
  Date:   Mon Apr 24 13:23:14 2022 +0530
  1 file created, 1 file merged, 0 files removed
  create mode 100644 abk3.txt
successfully rebased and updated refs/heads/main.

+ git log --oneline
f0079e6 (HEAD -> main) combination of two commits
ab1c950 (origin/another, another) adding abk3.txt file
ab1c950 initial-commit
```

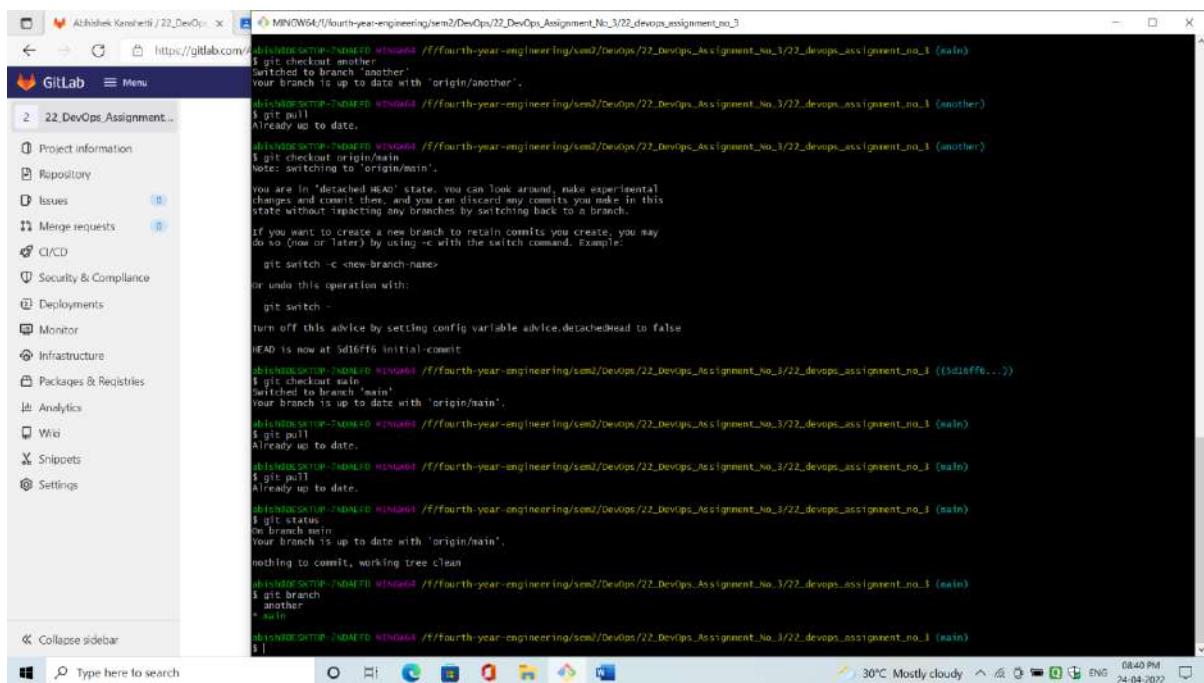
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7)Delete a branch



```

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
$ git checkout another
Switched to branch 'another'
Your branch is up to date with 'origin/another'.

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (another)
$ git pull
Already up to date.

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (another)
$ git checkout origin/main
Note: switching to 'origin/main'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.
If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:
  git switch -c <new-branch-name>
Or undo this operation with:
  git switch -
Turn off this advice by setting config variable advice.detachedHead to false
HEAD is now at 5d16ff6 initial-commit

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git pull
Already up to date.

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean

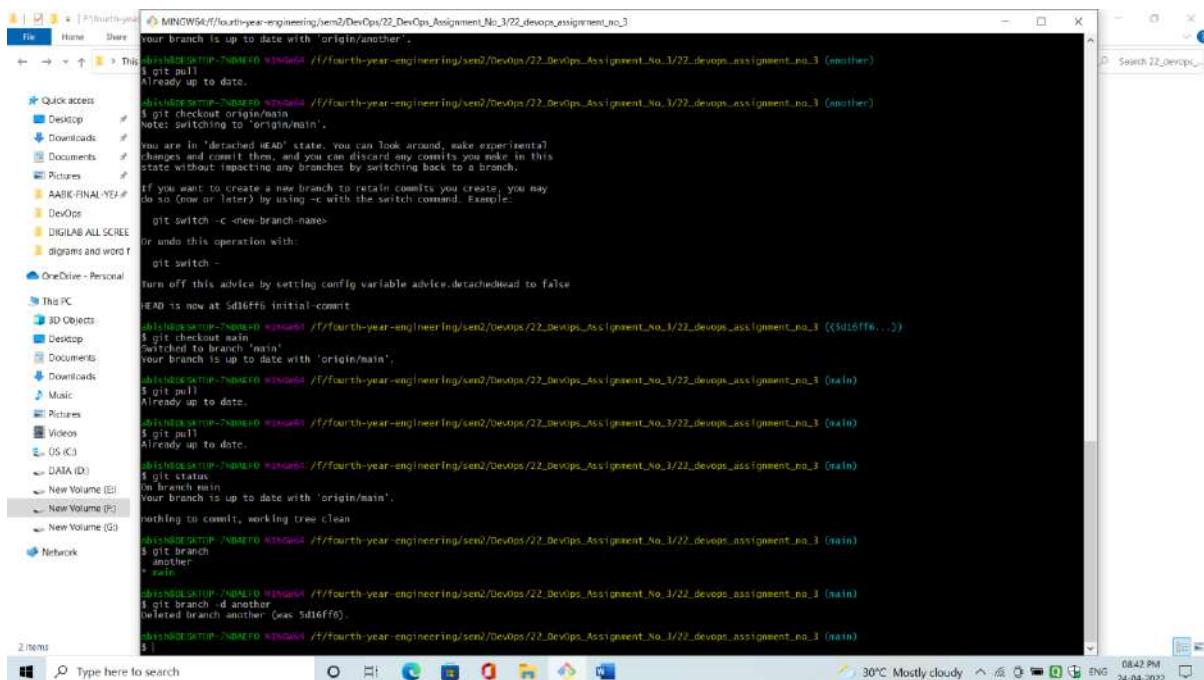
MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* another
  main

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch -d another
Deleted branch another (was 5d16ff6).

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ 

```

Deleted the branch on Local Repository As follow:



```

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
Your branch is up to date with 'origin/another'.

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (another)
$ git pull
Already up to date.

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (another)
$ git checkout origin/main
Note: switching to 'origin/main'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.
If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:
  git switch -c <new-branch-name>
Or undo this operation with:
  git switch -
Turn off this advice by setting config variable advice.detachedHead to false
HEAD is now at 5d16ff6 initial-commit

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git pull
Already up to date.

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* another
  main

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch -d another
Deleted branch another (was 5d16ff6).

MINGW64 /f/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ 

```

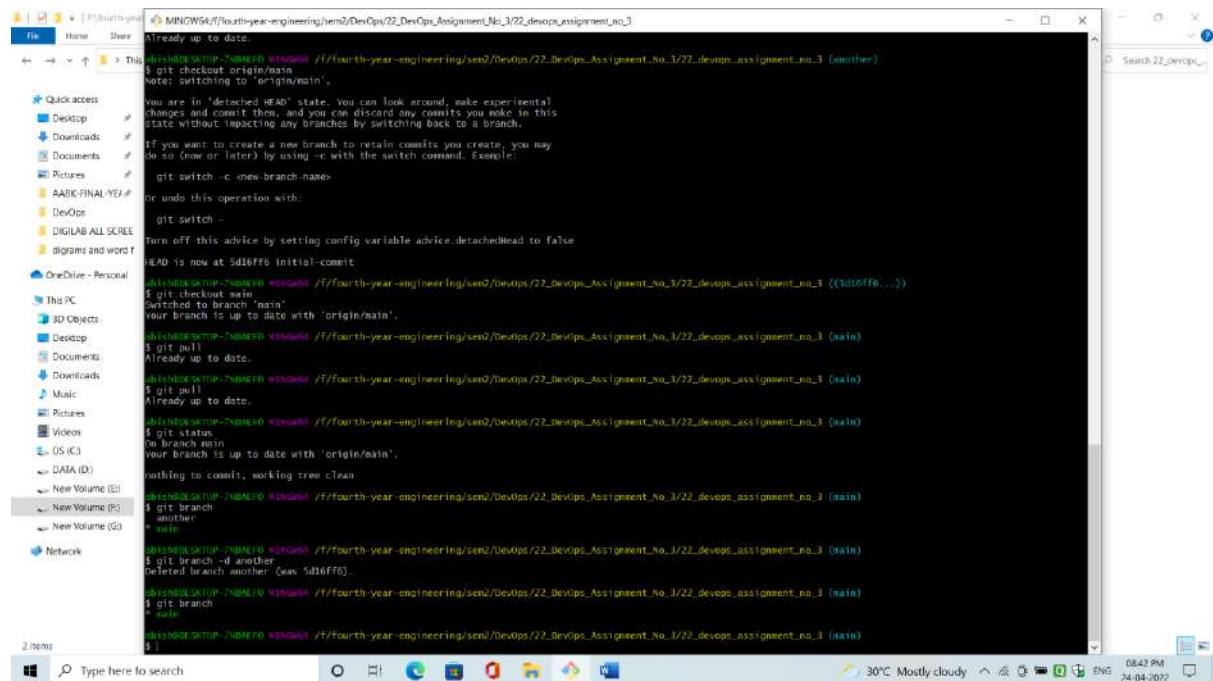
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.

Checking the branches present on Local Repository:

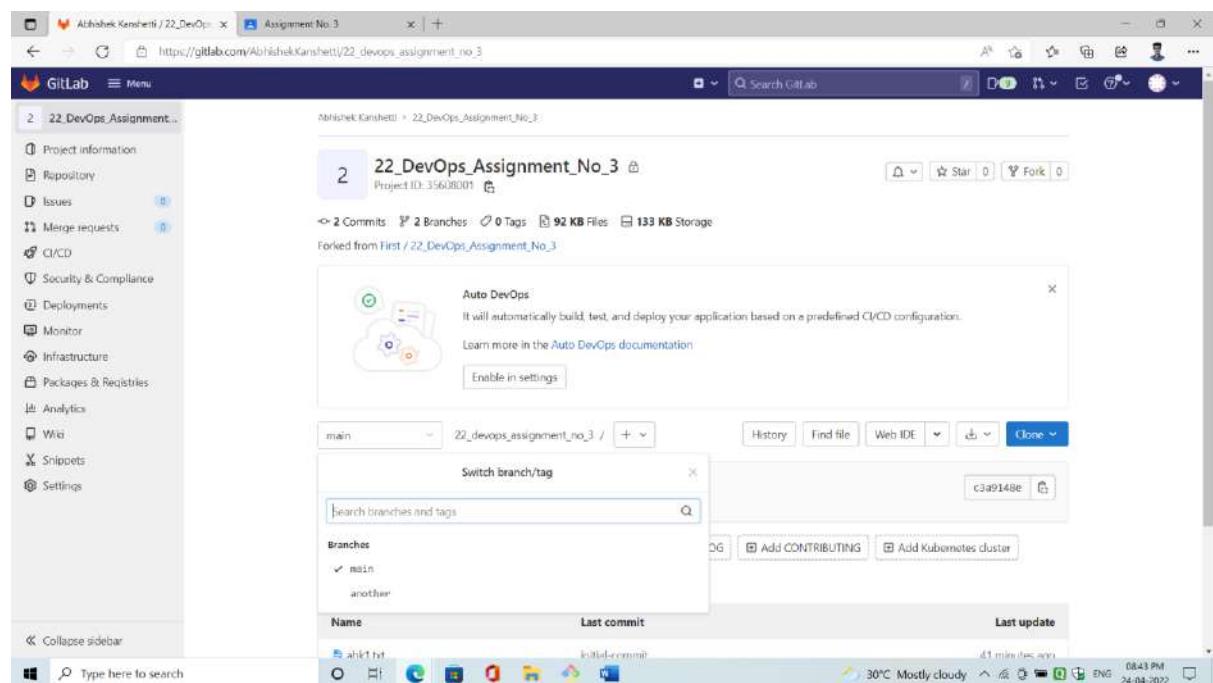


```

MINGW64 / / fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3
$ git checkout origin/main
Switched to branch 'origin/main'.
You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.
If you want to create a new branch to retain commits you create, you may
do so (know or later) by using --c with the switch command. Example:
git switch -c <new-branch-name>
Or undo this operation with:
git switch -
Turn off this advice by setting config variable advice.detachedHead to false
HEAD is now at 5d16ff6 initial-commit
git@DESKTOP-7NBMED0:~/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 ((5d16ff6...))
$ git checkout main
Switched to branch 'main'.
Your branch is up to date with 'origin/main'.
git@DESKTOP-7NBMED0:~/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git pull
Already up to date.
git@DESKTOP-7NBMED0:~/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* main
  another
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
git@DESKTOP-7NBMED0:~/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* main
  another
git@DESKTOP-7NBMED0:~/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch -d another
Deleted branch another (was 5d16ff6...).
git@DESKTOP-7NBMED0:~/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ git branch
* main
git@DESKTOP-7NBMED0:~/fourth-year-engineering/sem2/DevOps/22_DevOps_Assignment_No_3/22_devops_assignment_no_3 (main)
$ ]

```

Now Removing the Remote branch:



2 22_DevOps_Assignment_No_3

Project ID: 35608001

2 Commits 2 Branches 0 Tags 92 KB Files 133 KB Storage

Forked from First / 22_DevOps_Assignment_No_3

Auto DevOps

It will automatically build, test, and deploy your application based on a predefined CI/CD configuration.

Learn more in the Auto DevOps documentation

Enable in settings

main 22_devops_assignment_no_3 / +

Switch branch/tag

search branches and tags

Branches

- main
- another

History Find file Web IDE Clone

c3a9148e

Last commit

ahkt1.txt Initial commit

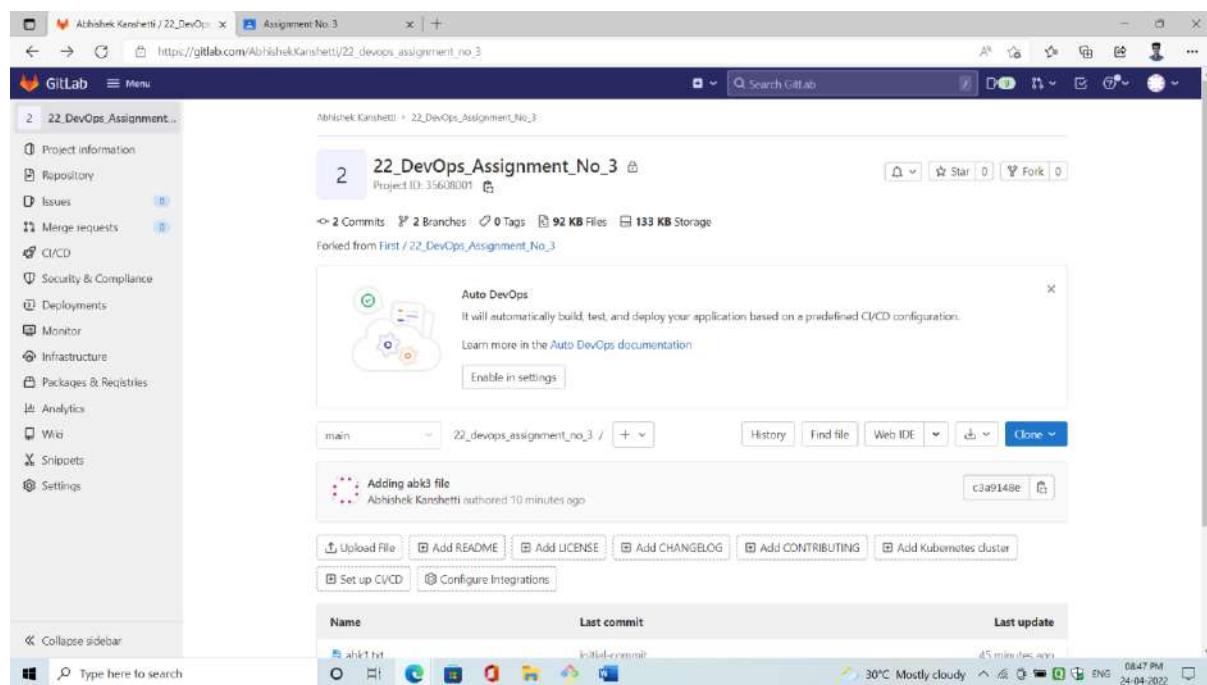
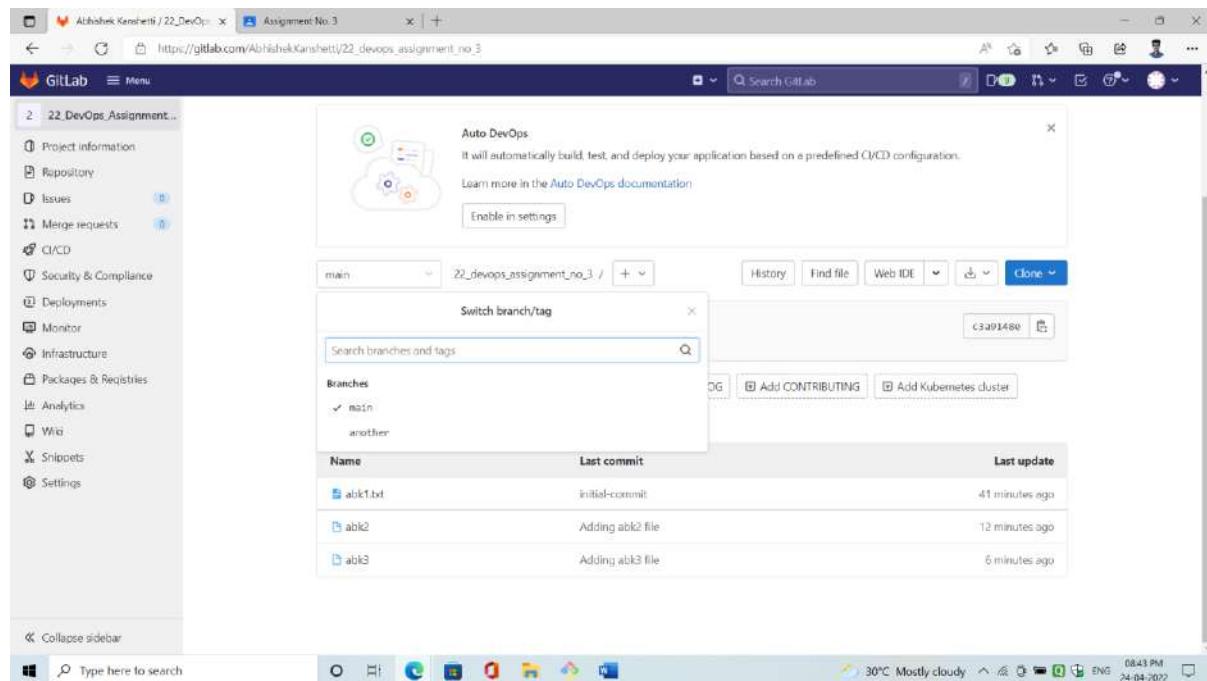
Last update

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ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.

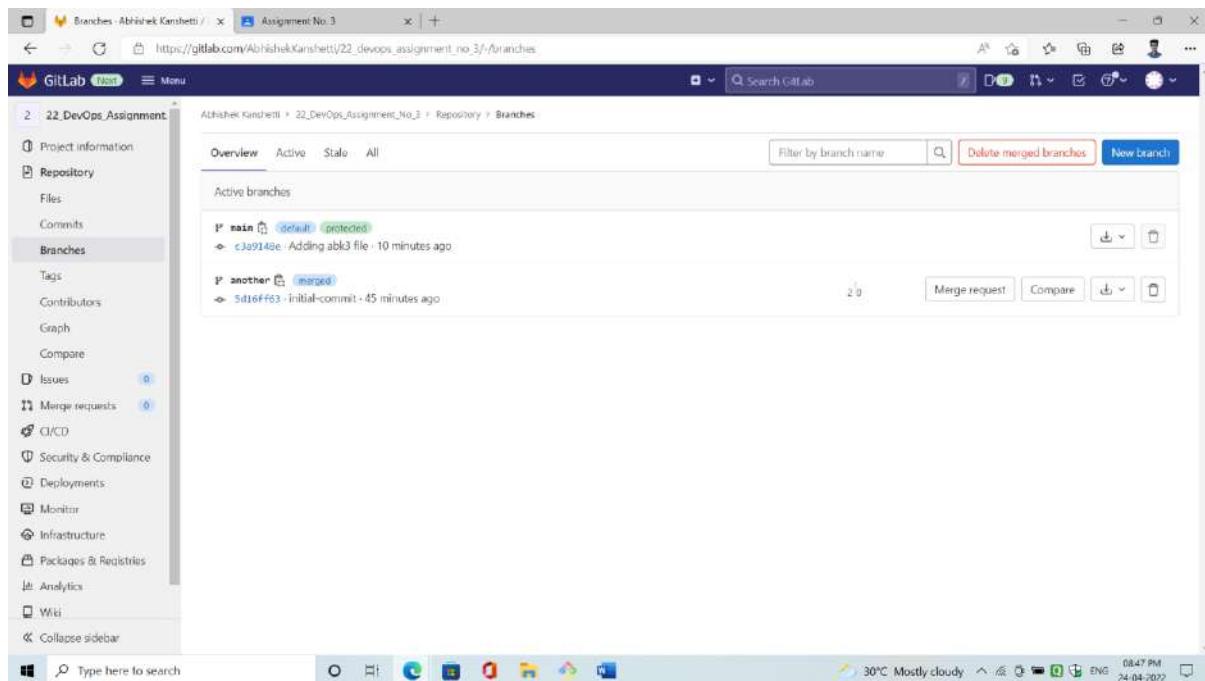


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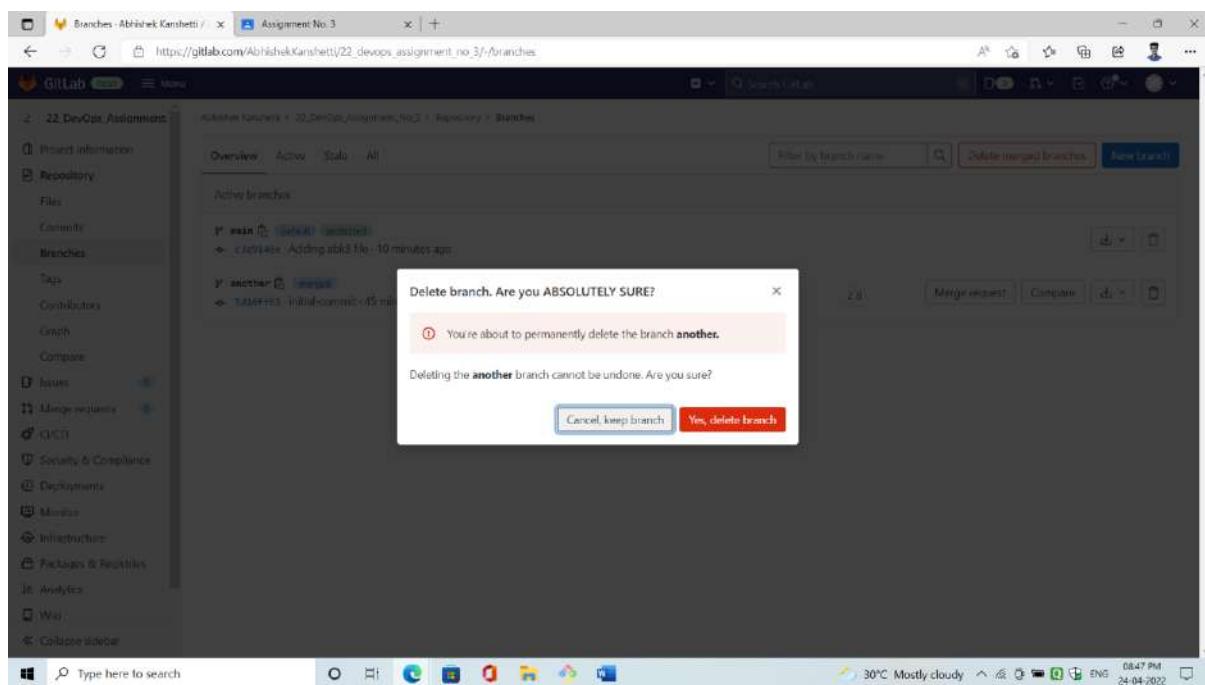
Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

Title: Implement GitLab Operations.



The screenshot shows the GitLab web interface. The URL is https://gitlab.com/AbhishekKanshetti/22_devops_assignment_no_3/-/branches. The sidebar on the left is collapsed. The main content area shows the 'Branches' page for the 'Assignment No. 3' repository. It lists two branches: 'main' (marked as 'default' and 'protected') and 'another'. A tooltip for 'another' says 'Created 45 minutes ago'. There are buttons for 'Merge request' and 'Compare' at the bottom right of the branch list. The top navigation bar includes links for 'Project information', 'Repository', 'Files', 'Commits', 'Branches', 'Tags', 'Contributors', 'Graph', 'Compare', 'Issues', 'Merge requests', 'CI/CD', 'Security & Compliance', 'Deployments', 'Monitor', 'Infrastructure', 'Packages & Registries', 'Analytics', 'Wiki', and 'Collapse sidebar'. The status bar at the bottom shows the date as 24-04-2022 and the time as 08:47 PM.



This screenshot shows the same GitLab interface as the previous one, but with a modal dialog box in the foreground. The dialog is titled 'Delete branch. Are you ABSOLUTELY SURE?' and contains a message: 'You're about to permanently delete the branch another.' Below the message is a note: 'Deleting the another branch cannot be undone. Are you sure?'. At the bottom of the dialog are two buttons: 'Cancel, keep branch' (grayed out) and 'Yes, delete branch' (highlighted in red). The background of the dialog shows the same branches page with the 'another' branch listed.

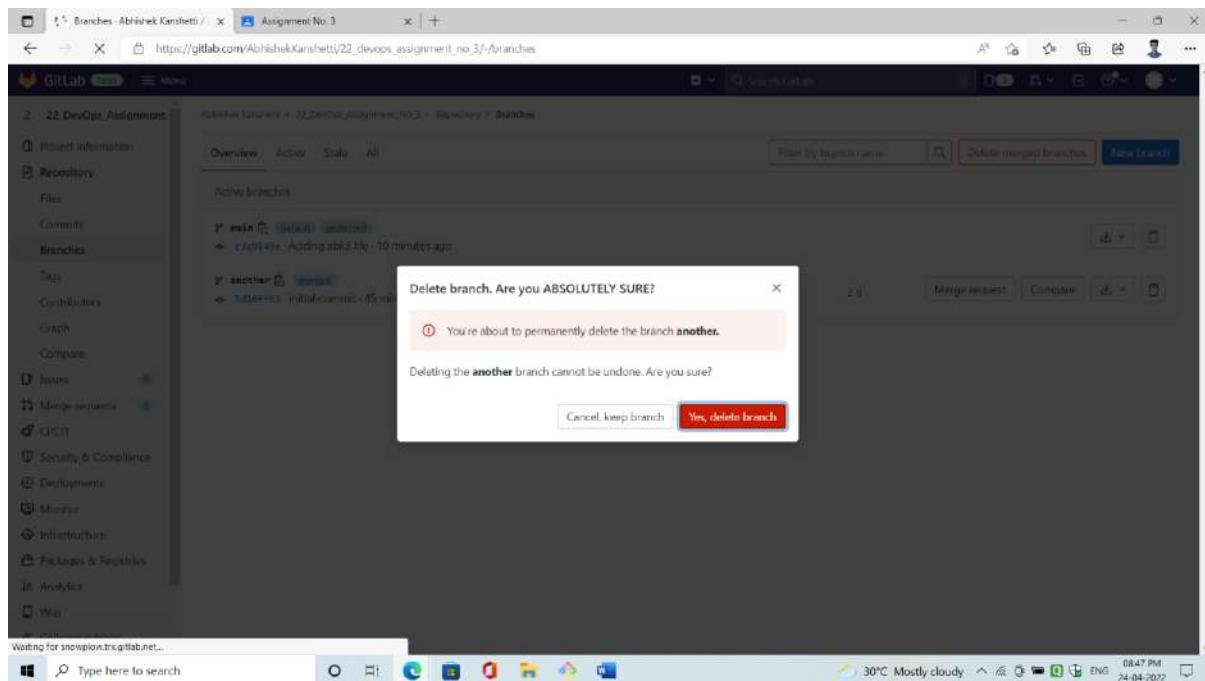
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Name: Abhishek Basavraj Kanshetti

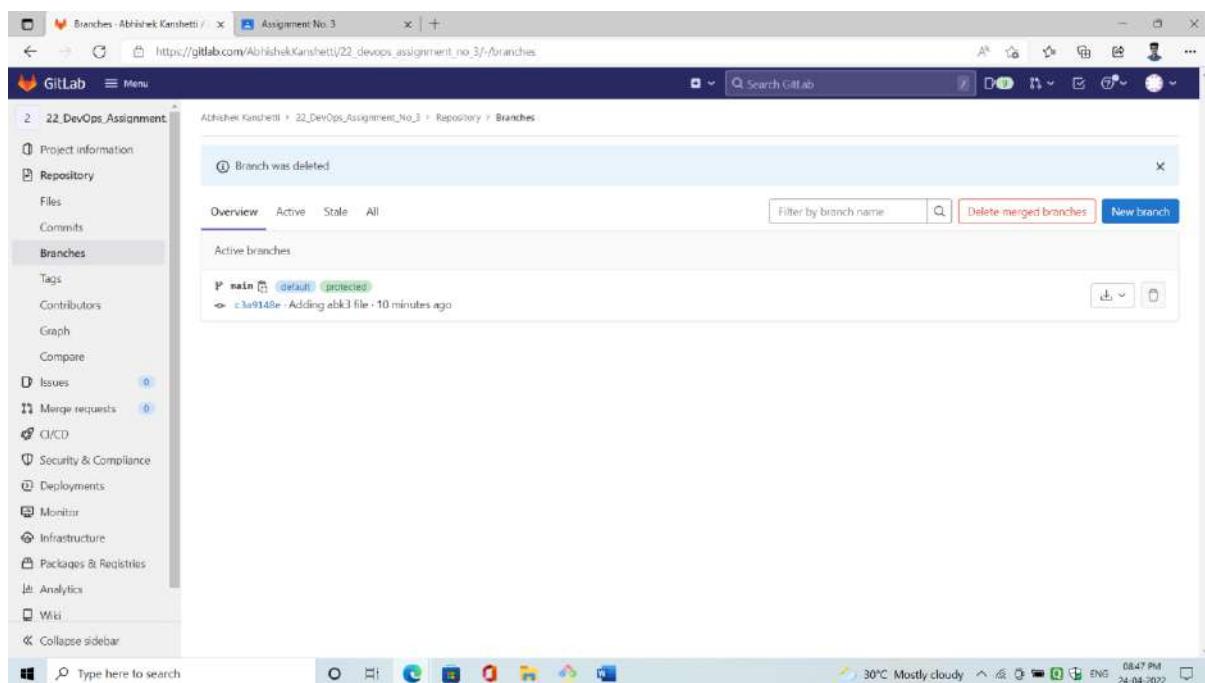
Roll No: 22

ASSIGNMENT NO: 3

Title: Implement GitLab Operations.



Deleted the Branch Successfully:

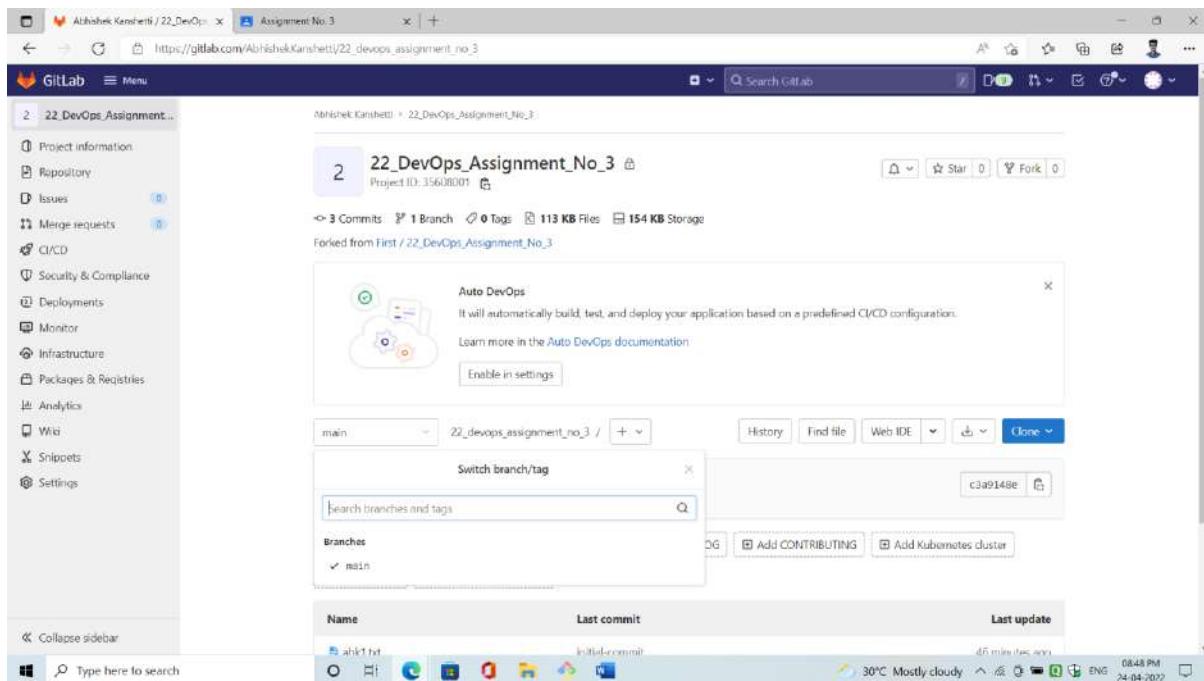


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Name: Abhishek Basavraj Kanshetti
ASSIGNMENT NO: 3

Roll No: 22

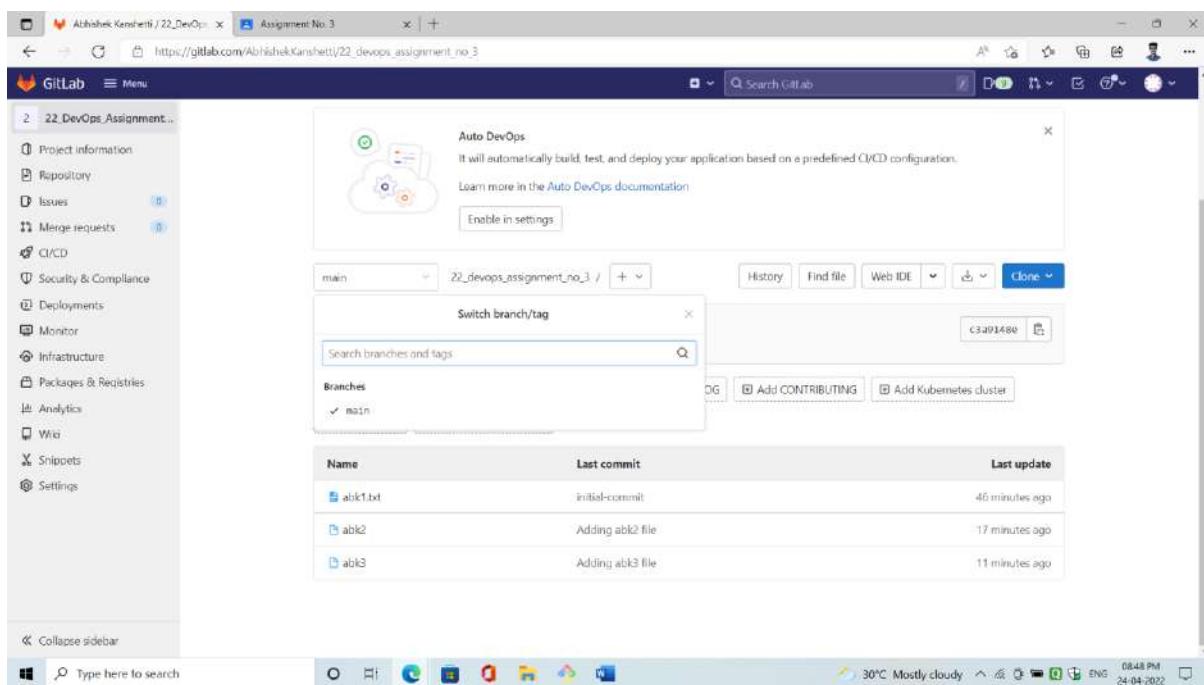
Title: Implement GitLab Operations.



The screenshot shows the GitLab web interface for a repository named '22_DevOps_Assignment_No_3'. The sidebar on the left includes links for Project information, Repository, Issues, Merge requests, CI/CD, Security & Compliance, Deployments, Monitor, Infrastructure, Packages & Registries, Analytics, Wiki, Snippets, and Settings. The main content area displays the repository details: 3 commits, 1 branch, 0 tags, 113 KB files, and 154 KB storage. A modal window titled 'Auto DevOps' is open, explaining its function: 'It will automatically build, test, and deploy your application based on a predefined CI/CD configuration.' It includes a 'Learn more in the Auto DevOps documentation' link and a 'Enable in settings' button. Below the modal, there's a 'Switch branch/tag' dropdown set to 'main', a search bar for branches and tags, and a table showing the current branches:

Name	Last commit	Last update
ahk1.txt	initial-commit	45 minutes ago
main	c3a9148e	08:48 PM 24-04-2022

Only One Branch Can be Seen on Remote:



This screenshot shows the same GitLab repository interface as the previous one, but with three branches listed in the table:

Name	Last commit	Last update
ahk1.txt	initial-commit	46 minutes ago
ahk2	Adding ahk2 file	17 minutes ago
ahk3	Adding ahk3 file	11 minutes ago

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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 4

Title: GitLab CI/CD

Aim:

To Implement GitLab CI/CD.

Problem statement:

To use GitLab CI/CD:

Ensure you have runners available to run your jobs. If you don't have a runner, install GitLab Runner and register a runner for your instance, project, or group. Create a .gitlab-ci.yml file at the root of your repository. This file is where you define your CI/CD jobs.

When you commit the file to your repository, the runner runs your jobs. The job results are displayed in a pipeline.

View the status of your pipeline and jobs.

Output Screenshots:

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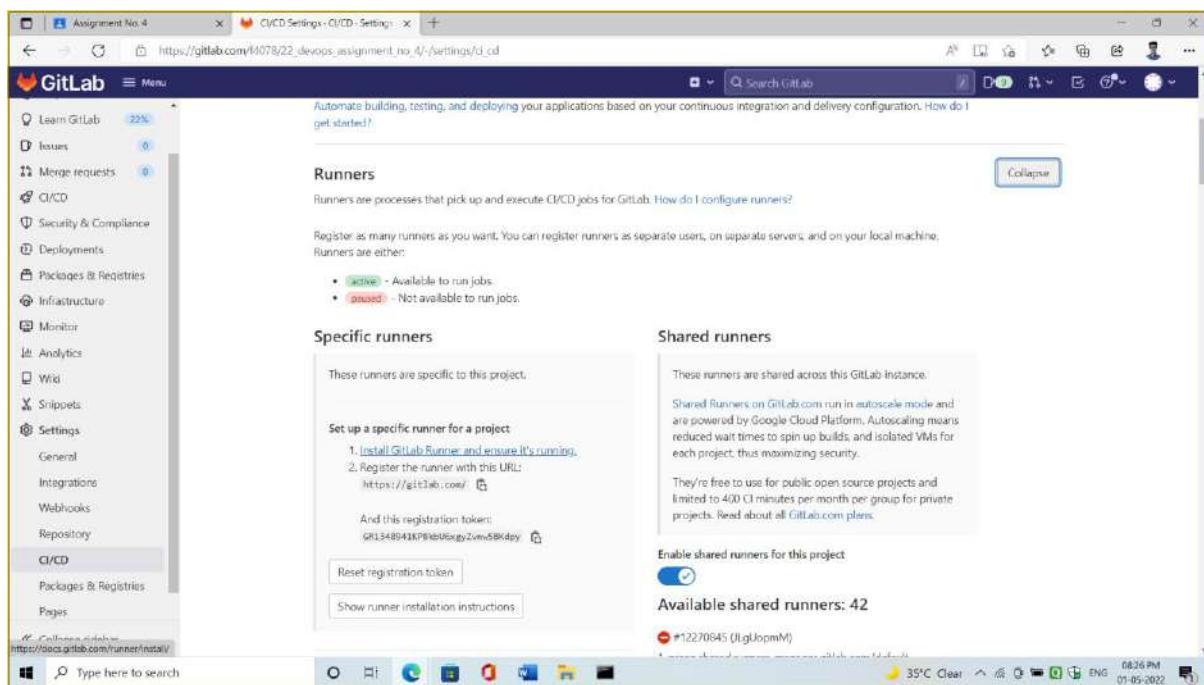
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 4

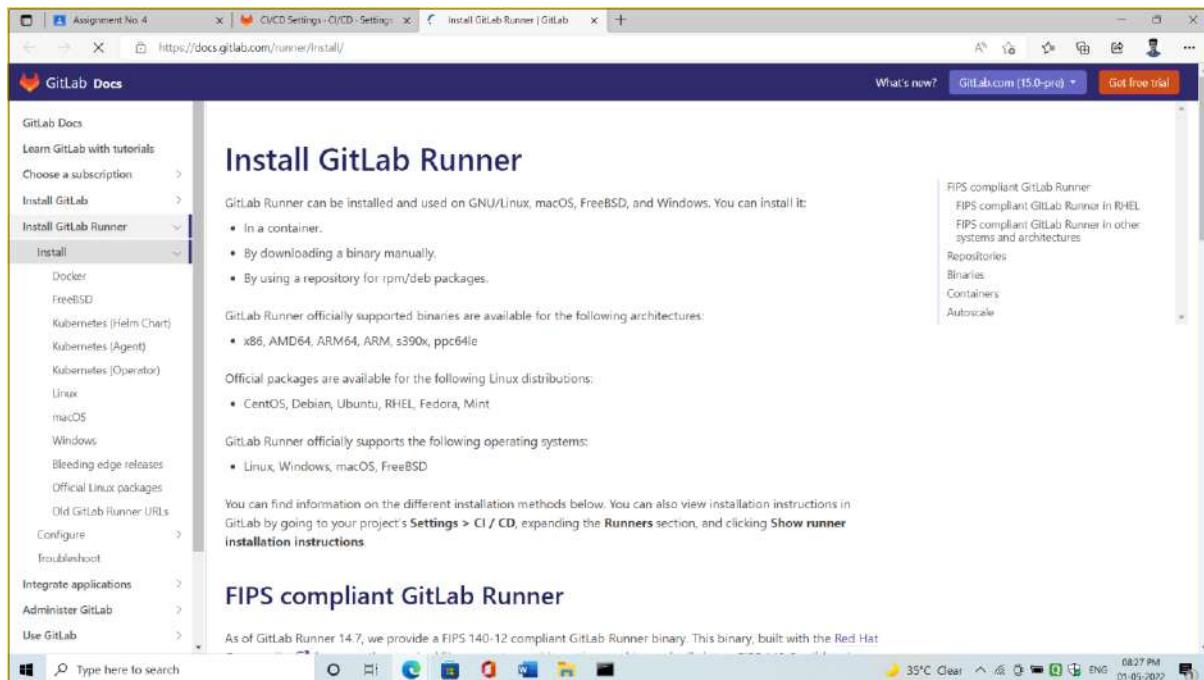
Title: GitLab CI/CD

First Checking for Runners:



The screenshot shows the GitLab interface for managing CI/CD settings. On the left, there's a sidebar with various project management options like Learn GitLab, Issues, Merge requests, CI/CD, Security & Compliance, Deployments, Packages & Registries, Infrastructure, Monitor, Analytics, Wiki, Snippets, and Settings. Under Settings, the 'CI/CD' tab is selected. The main content area is titled 'Runners'. It explains what runners are (processes that pick up and execute CI/CD jobs) and how to configure them. It also provides instructions for setting up specific runners for the project and shared runners across the instance. A registration token is shown, and there's a link to 'Show runner installation instructions'. A toggle switch allows enabling shared runners for the project, and it indicates there are 42 available shared runners.

Installing the GitLab Runner:



The screenshot shows the GitLab Documentation page for 'Install GitLab Runner'. The left sidebar has a 'Install GitLab Runner' section with a 'Install' dropdown menu open, showing options like Docker, FreeBSD, Kubernetes (Helm Chart), Kubernetes (Agent), Kubernetes (Operator), Linux, macOS, Windows, Bleeding edge releases, Official Linux packages, Old GitLab Runner URLs, Configure, Troubleshoot, Integrate applications, Administer GitLab, and Use GitLab. The main content area is titled 'Install GitLab Runner'. It explains that the runner can be installed on various platforms and provides instructions for installing it in a container, manually, or using a repository. It lists supported architectures (x86, AMD64, ARM64, ARM, s390x, ppc64le) and operating systems (CentOS, Debian, Ubuntu, RHEL, Fedora, Mint). It also mentions FIPS compliant runner binaries for RHEL and other systems. At the bottom, there's a section for 'FIPS compliant GitLab Runner' which states that as of GitLab Runner 14.7, a FIPS 140-2 compliant binary is provided.

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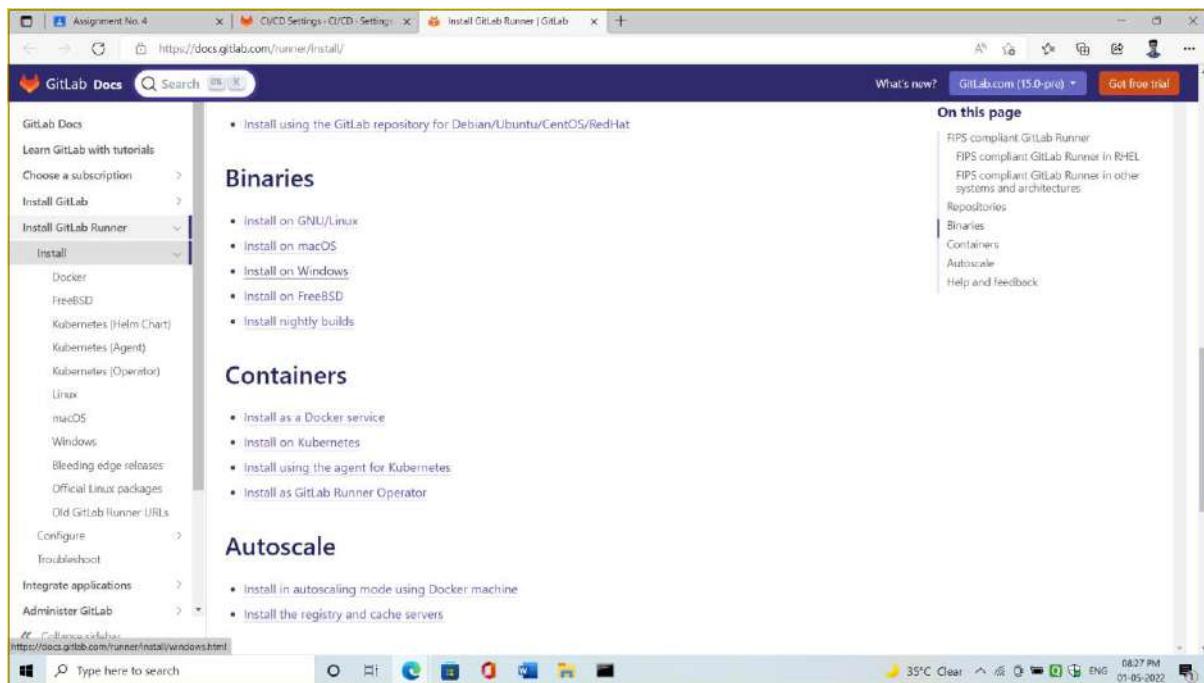
Name: Abhishek Basavraj Kanshetti

Roll No: 22

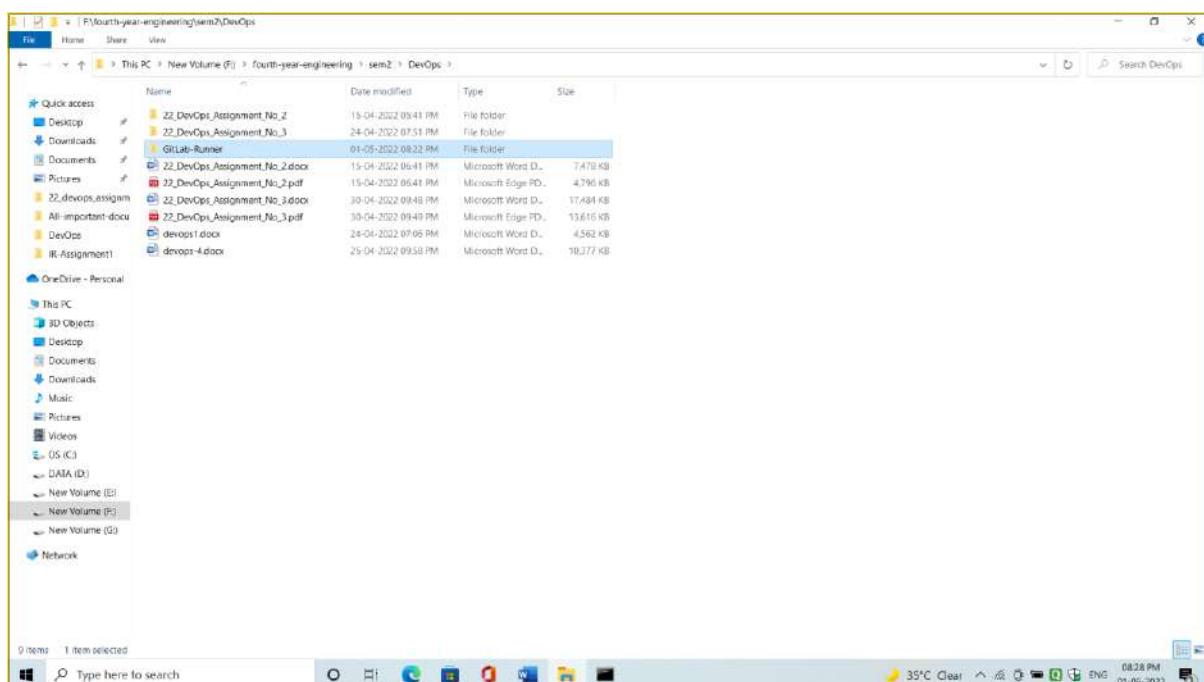
ASSIGNMENT NO: 4

Title: GitLab CI/CD

Clicking on “Install on Windows” in Binaries:



Creating the “GitLab-Runner” Folder and Putting the Downloaded .exe file in this Folder:



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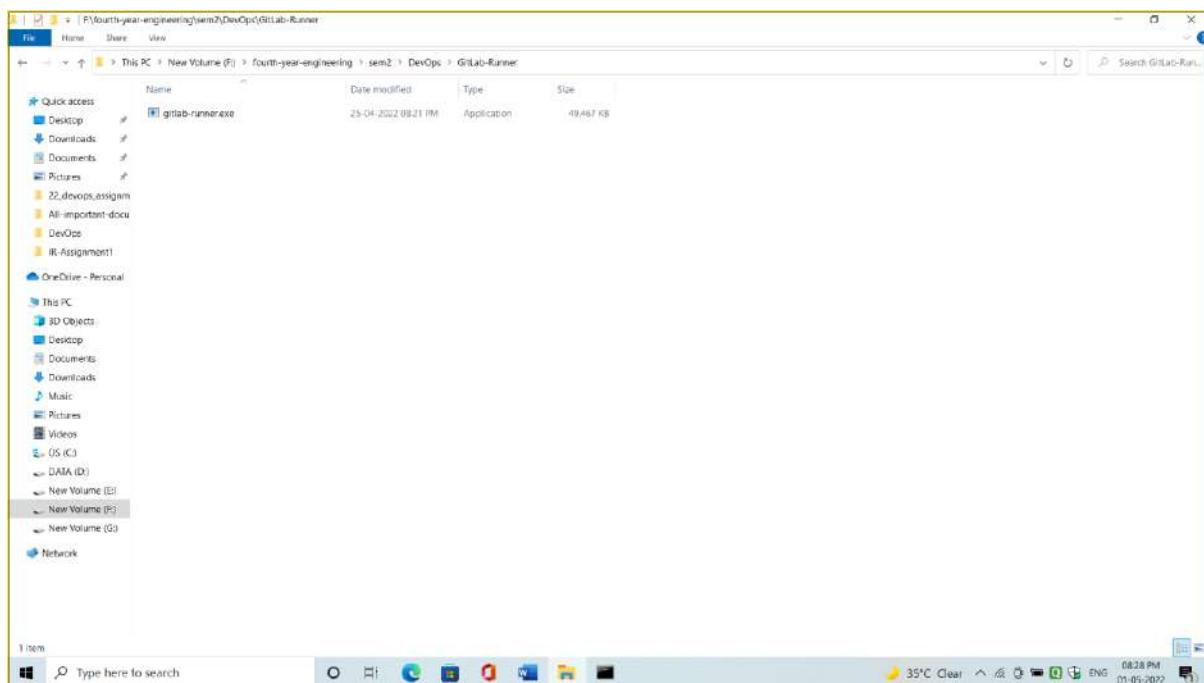
Name: Abhishek Basavraj Kanshetti

Roll No: 22

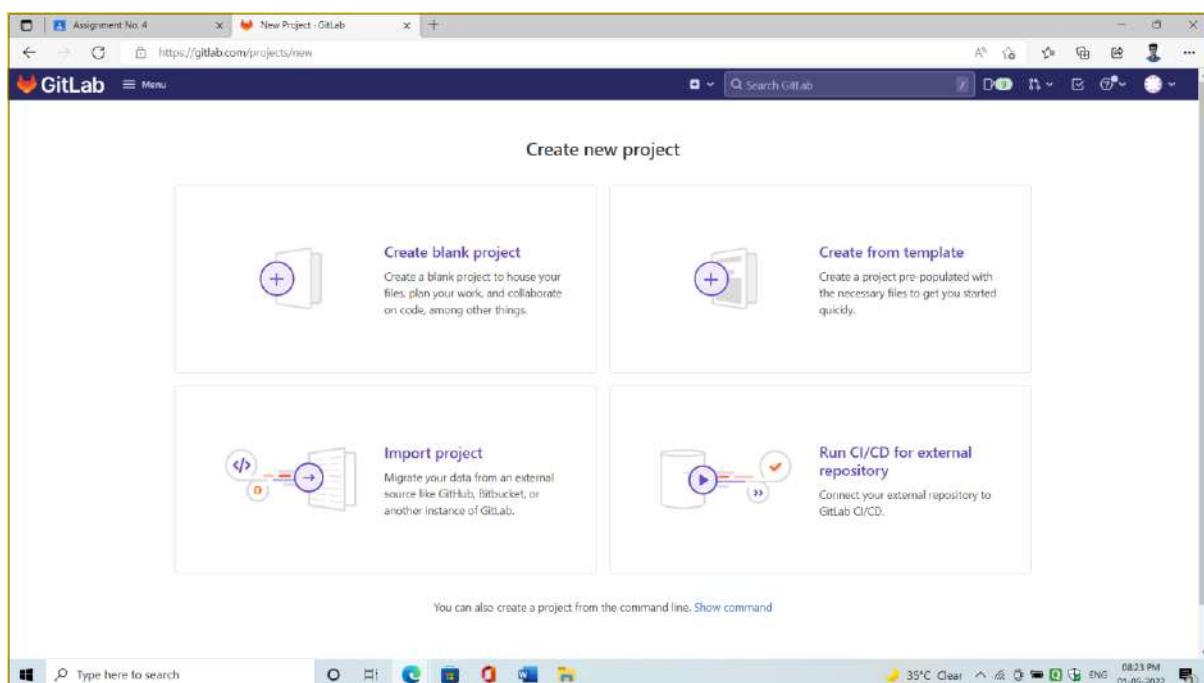
ASSIGNMENT NO: 4

Title: GitLab CI/CD

.exe File Copied as below and renamed as “gitlab-runner.exe”:



Creating the New Repository:



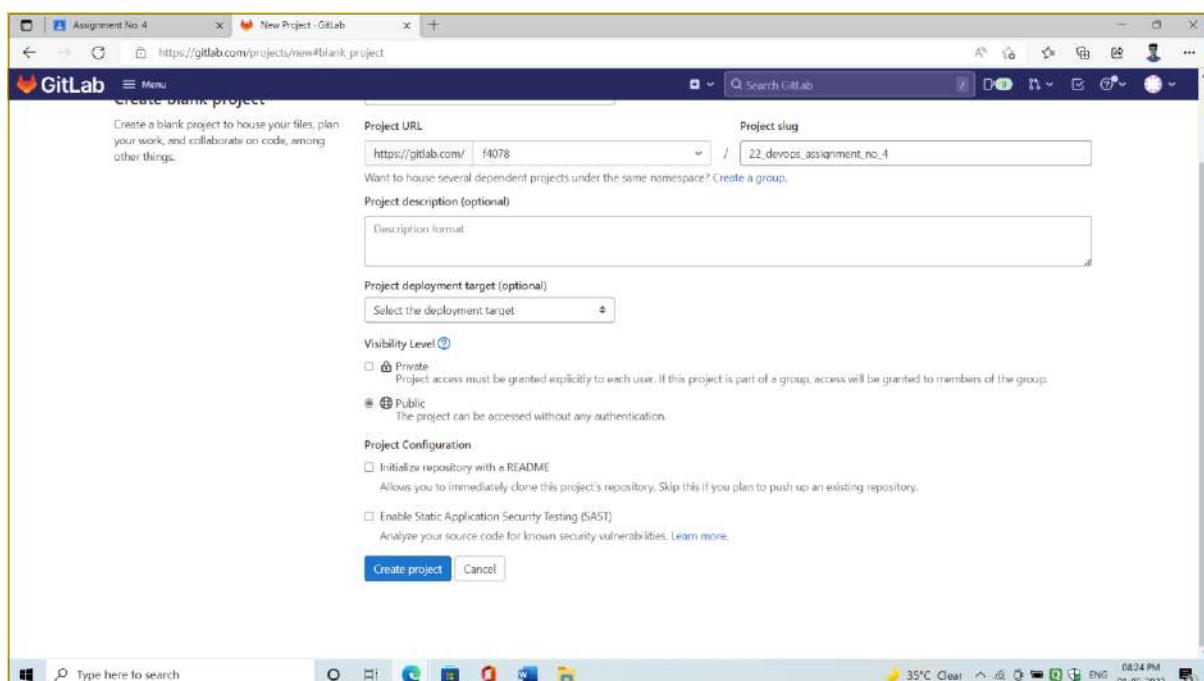
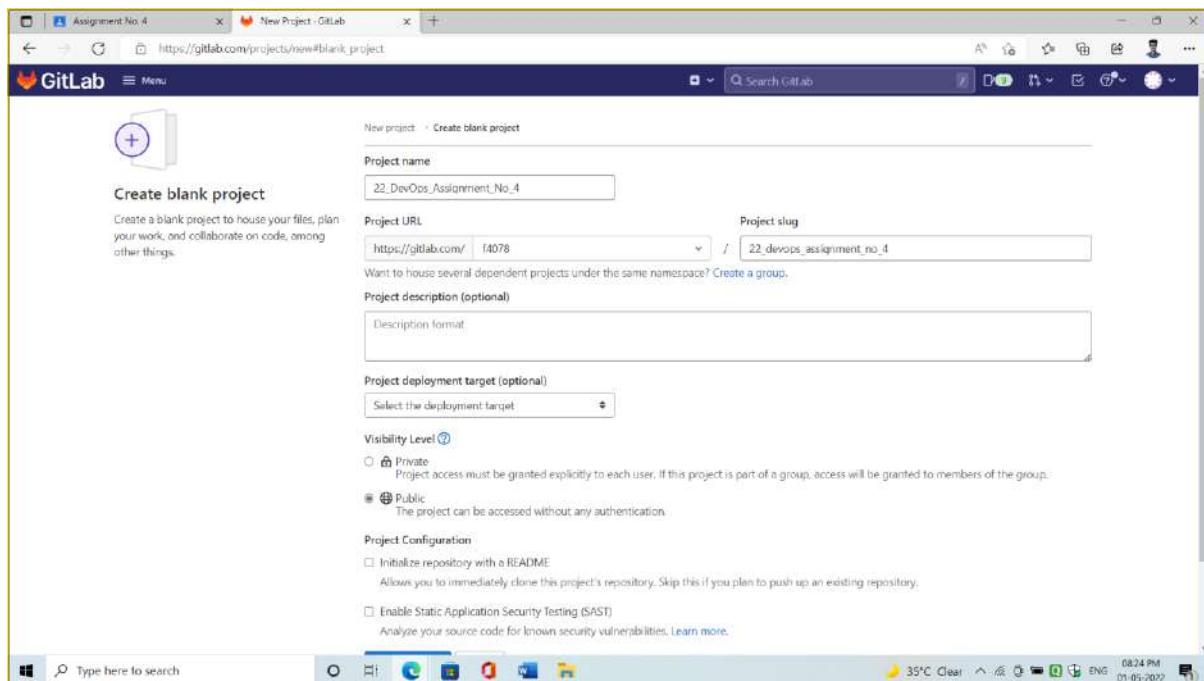
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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 4

Title: GitLab CI/CD



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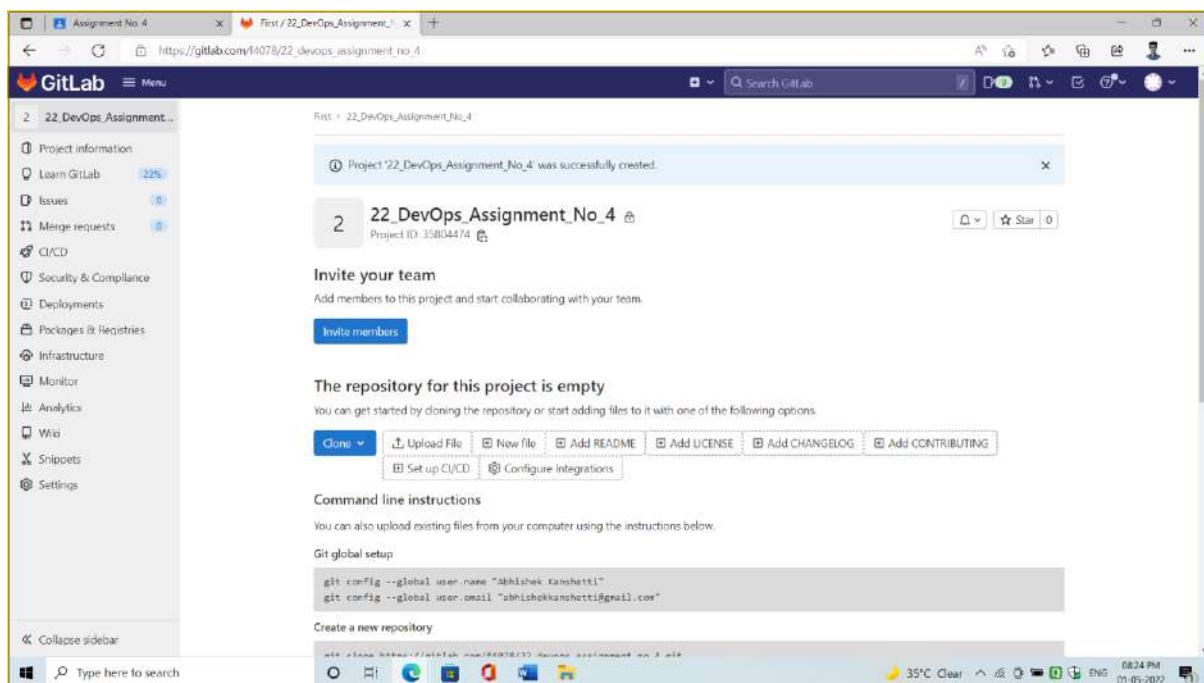
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 4

Title: GitLab CI/CD

Created “22_DevOps_Assignment_No_4” Repository as Follow:

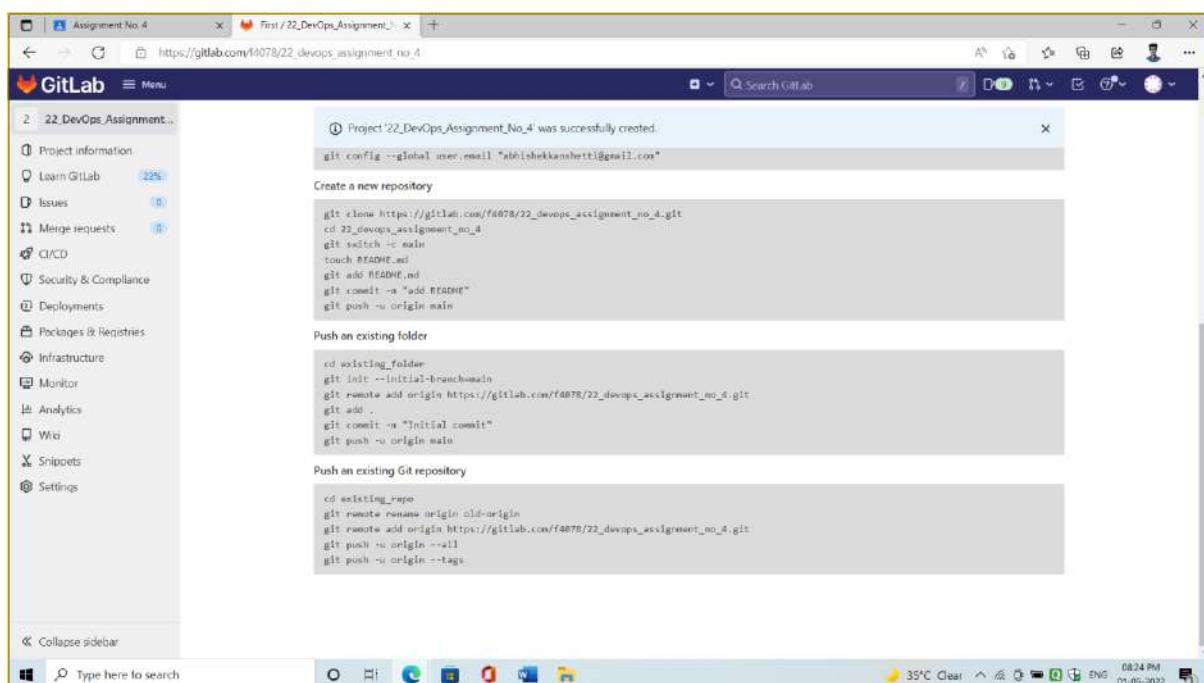


Project '22_DevOps_Assignment_No_4' was successfully created.

22_DevOps_Assignment_No_4

The repository for this project is empty

git config --global user.name "Abhishek Kanshetti"
git config --global user.email "abhishekkanshetti@gmail.com"



git config --global user.name "Abhishek Kanshetti"
git config --global user.email "abhishekkanshetti@gmail.com"

Create a new repository

```
git clone https://gitlab.com/f4078/22_devops_assignment_no_4.git  
cd 22_devops_assignment_no_4  
git switch -c main  
touch README.md  
git add README.md  
git commit -a "add README"  
git push -u origin main
```

Push on existing folder

```
cd existing_folder  
git init --initial-branch=main  
git remote add origin https://gitlab.com/f4078/22_devops_assignment_no_4.git  
git add .  
git commit -m "Initial commit"  
git push -u origin main
```

Push on existing Git repository

```
cd existing_repo  
git remote rename origin old-origin  
git remote add origin https://gitlab.com/f4078/22_devops_assignment_no_4.git  
git push -u origin --all  
git push -u origin --tags
```

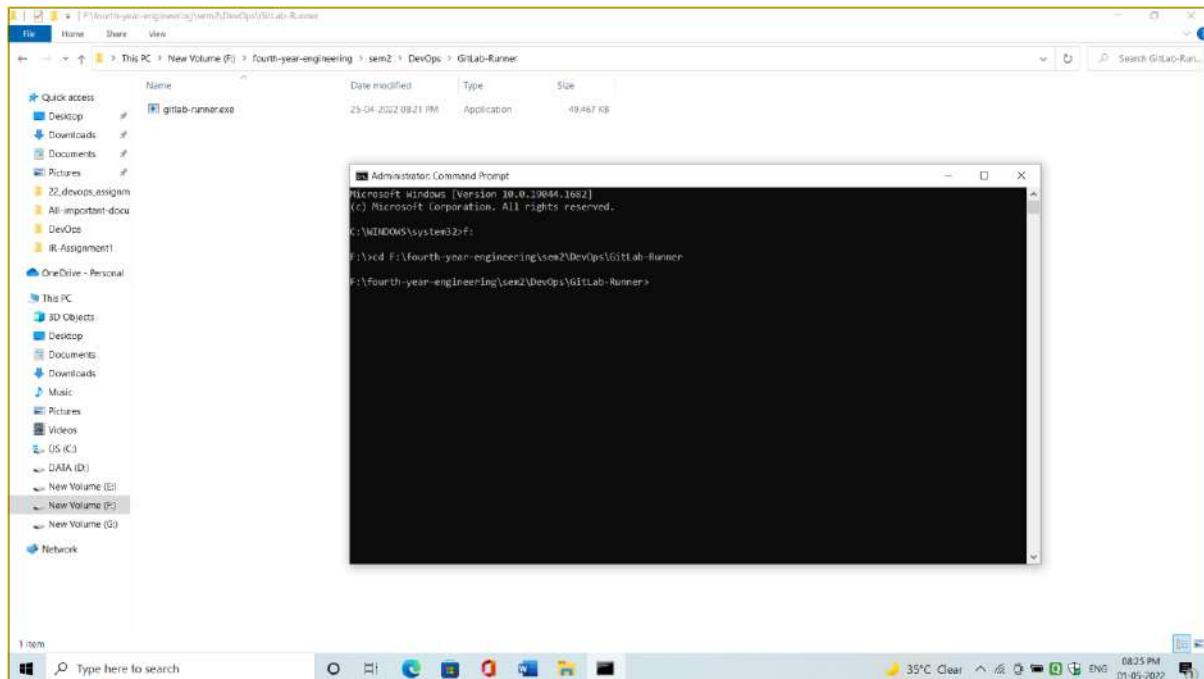
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Name: Abhishek Basavraj Kanshetti

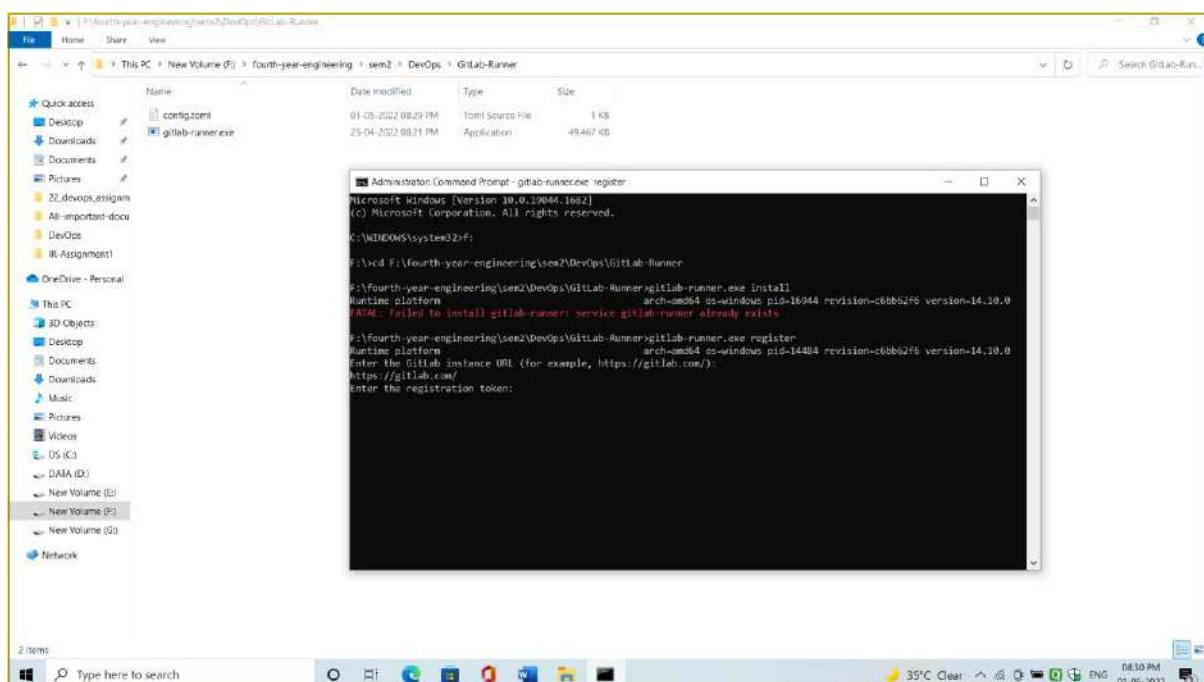
Roll No: 22

ASSIGNMENT NO: 4

Title: GitLab CI/CD



Installing the Gitlab Runner And then Registering the GitLab Runner:



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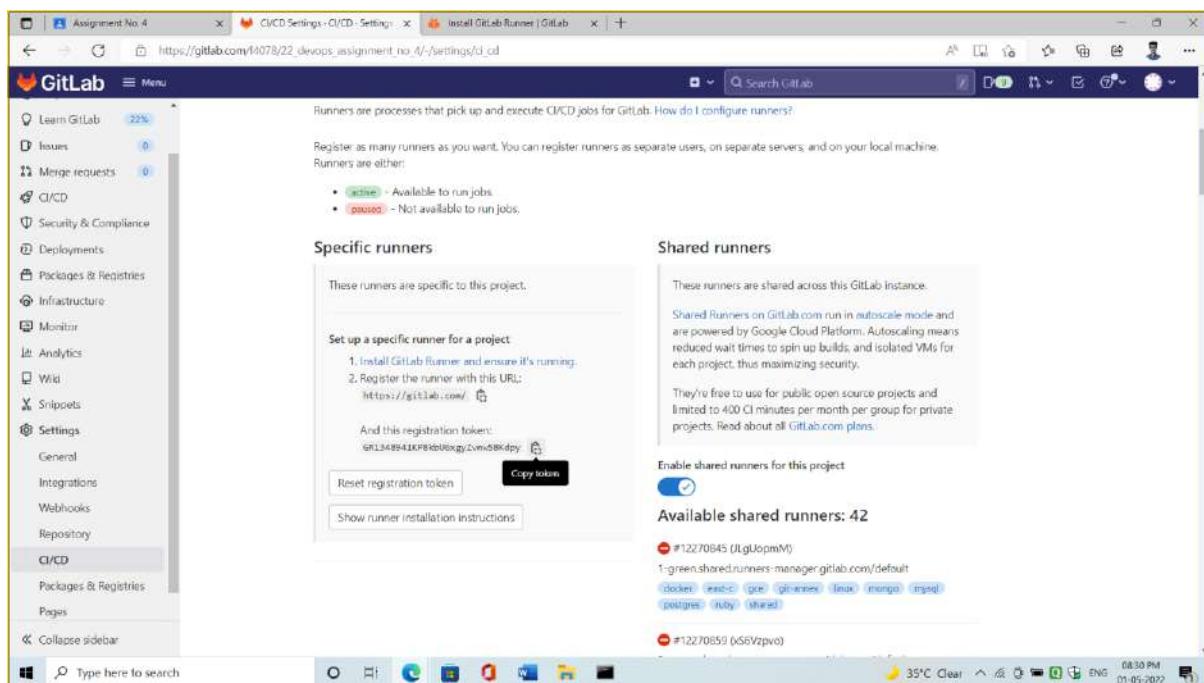
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 4

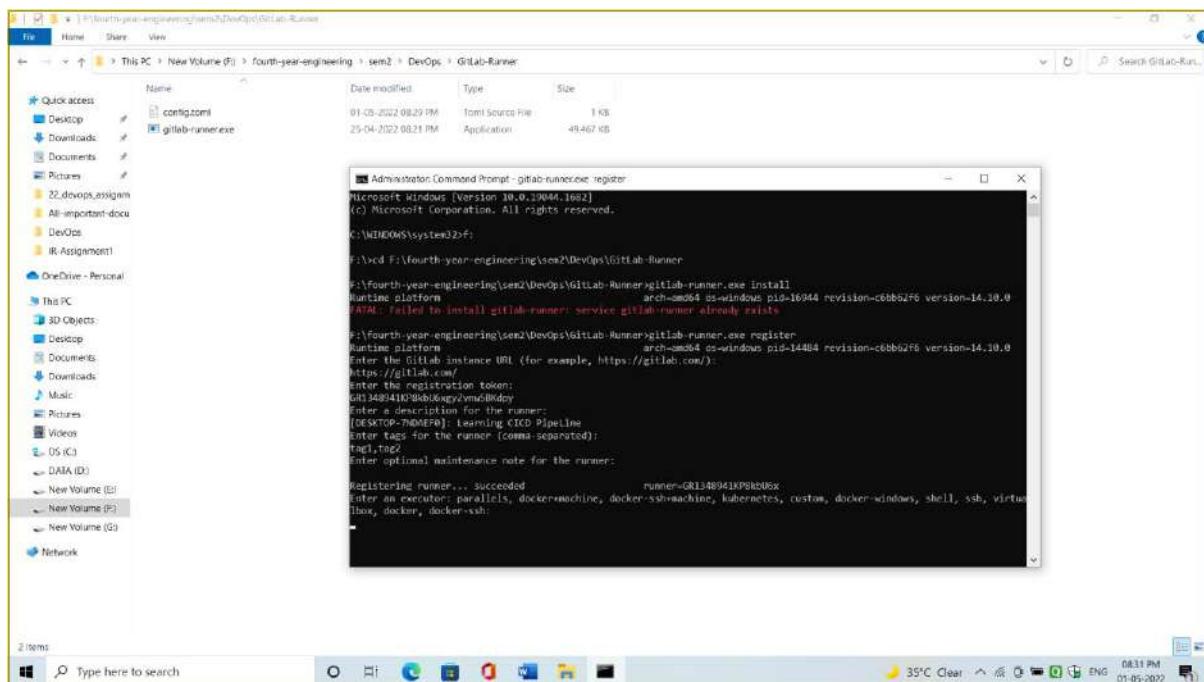
Title: GitLab CI/CD

Copied the Registration Tokens:



The screenshot shows the GitLab interface for managing CI/CD runners. On the left sidebar, 'CI/CD' is selected. In the main content area, under 'Specific runners', there is a section for setting up a runner for the current project. It includes instructions to install a GitLab Runner and register it with the URL <https://gitlab.com/>. A registration token is displayed: `GR1348941KPRkb6OgjVzn58k8dyx`. Below the token are buttons for 'Reset registration token' and 'Copy token'. To the right, under 'Shared runners', it says 'These runners are shared across this GitLab Instance.' It lists 'Available shared runners' with the ID #12270845 (JLgUopmM) and a link to its configuration. The status of the runner is shown as 'active'.

Entered Registration Token:



The screenshot shows a Windows file explorer window with the path `F:\fourth-year-engineering\sem2\DevOps\GitLab-Runner`. Inside this folder, there are files named `config.toml` and `gitlab-runner.exe`. Below the file explorer is an 'Administrator Command Prompt' window. The command `gitlab-runner.exe register` is being run. The output shows the runner is already registered with the URL `https://gitlab.com/` and the token `GR1348941KPRkb6OgjVzn58k8dyx`. It also lists available executors: `parallels, docker-machine, docker-ssh-machine, kubernetes, custom, docker-windows, shell, ssh, virtualbox, docker, docker-ssh`.

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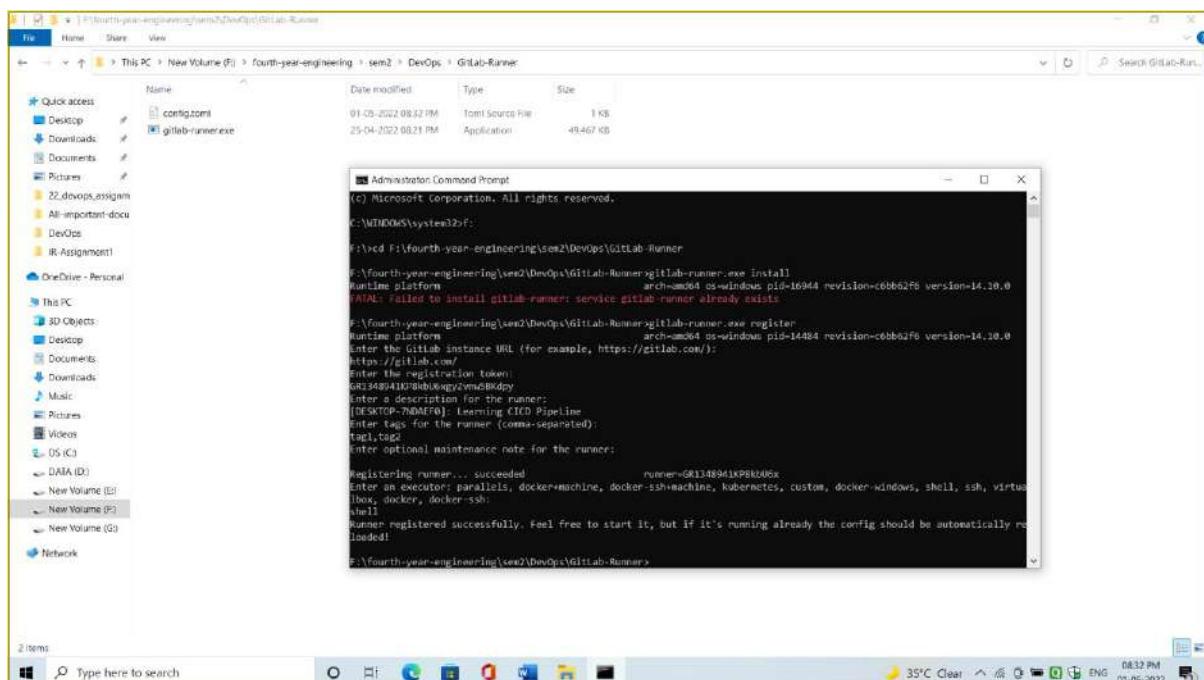
Name: Abhishek Basavraj Kanshetti

Roll No: 22

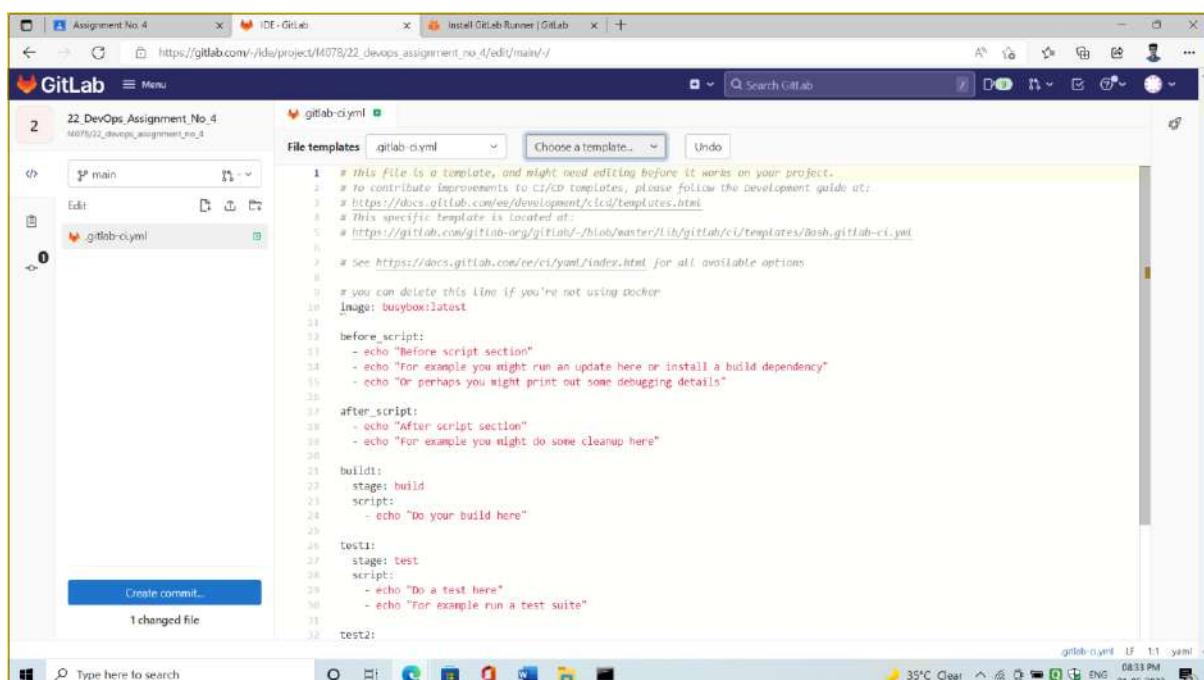
ASSIGNMENT NO: 4

Title: GitLab CI/CD

GitLab Runner Successfully Installed as follow:



Adding the .gitlab-ci.yml file and Choosing the Template as “Bash”:



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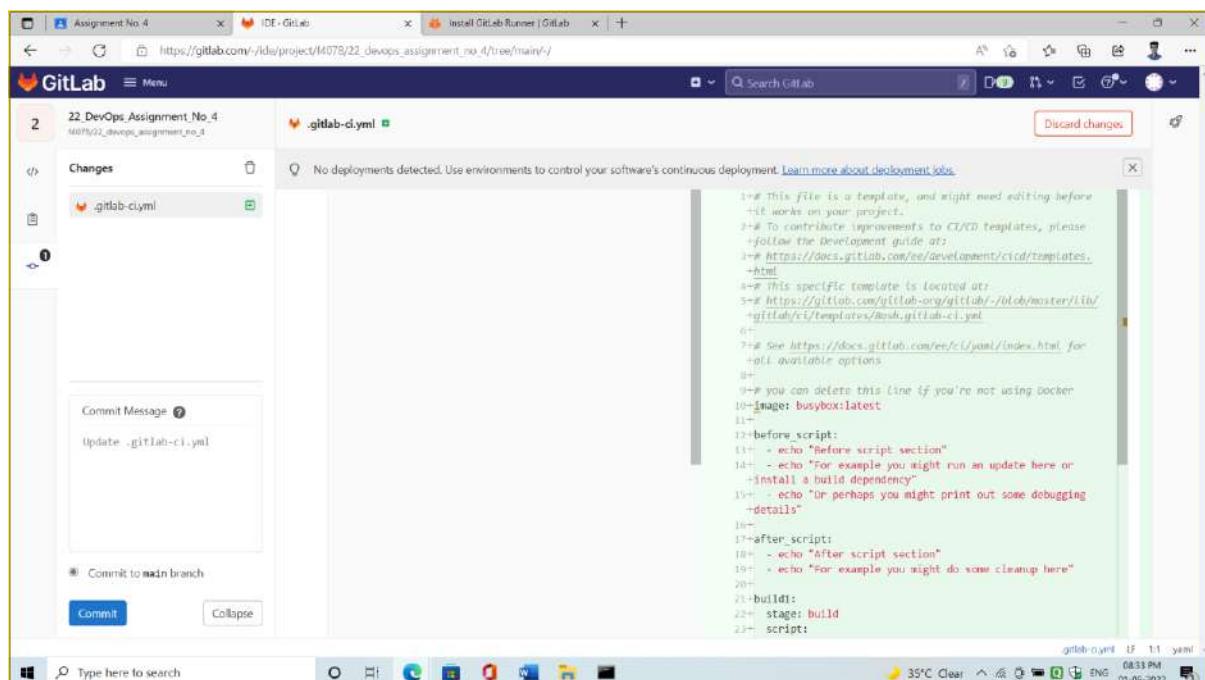
Name: Abhishek Basavraj Kanshetti

Roll No: 22

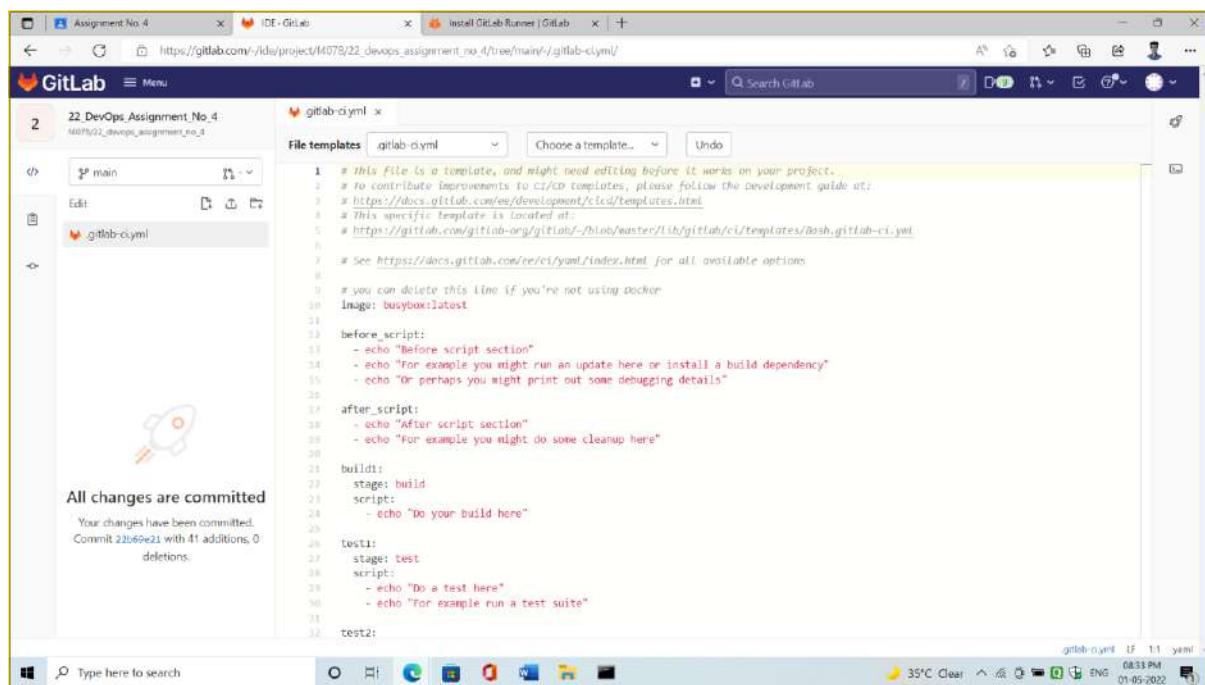
ASSIGNMENT NO: 4

Title: GitLab CI/CD

Committing the file:



```
# This file is a template, and might need editing before it works on your project.
# To contribute improvements to CI/CD templates, please follow the development guide at:
# https://docs.gitlab.com/ee/development/ci/ci/templates.html
# See https://docs.gitlab.com/ee/i/yaml/index.html for all available options
# you can delete this line if you're not using docker
image: busybox:latest
before_script:
  - echo "Before script section"
  - echo "For example you might run an update here or install a build dependency"
  - echo "Or perhaps you might print out some debugging details"
after_script:
  - echo "After script section"
  - echo "For example you might do some cleanup here"
build:
  stages: build
  script:
    - echo "Do your build here"
test:
  stages: test
  script:
    - echo "Do a test here"
    - echo "For example run a test suite"
  test2:
```



```
# This file is a template, and might need editing before it works on your project.
# To contribute improvements to CI/CD templates, please follow the development guide at:
# https://docs.gitlab.com/ee/development/ci/ci/templates.html
# See https://docs.gitlab.com/ee/i/yaml/index.html for all available options
# you can delete this line if you're not using docker
image: busybox:latest
before_script:
  - echo "Before script section"
  - echo "For example you might run an update here or install a build dependency"
  - echo "Or perhaps you might print out some debugging details"
after_script:
  - echo "After script section"
  - echo "For example you might do some cleanup here"
build:
  stages: build
  script:
    - echo "Do your build here"
test:
  stages: test
  script:
    - echo "Do a test here"
    - echo "For example run a test suite"
  test2:
```

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DEVOPS

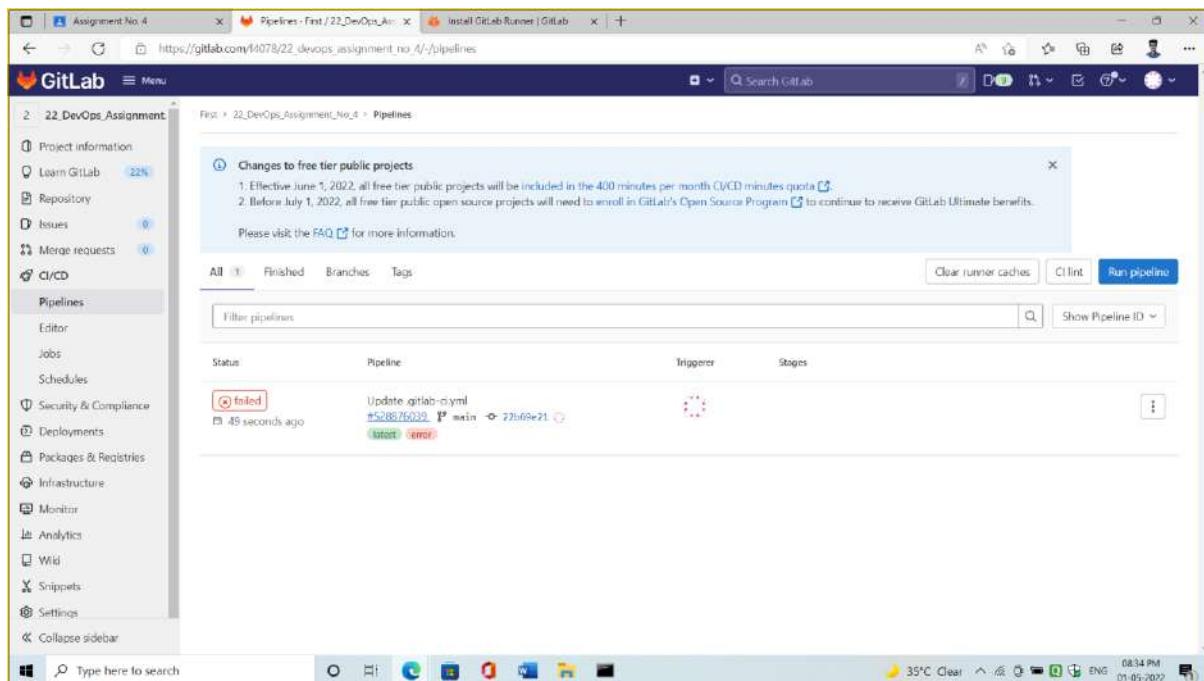
Name: Abhishek Basavraj Kanshetti

Roll No: 22

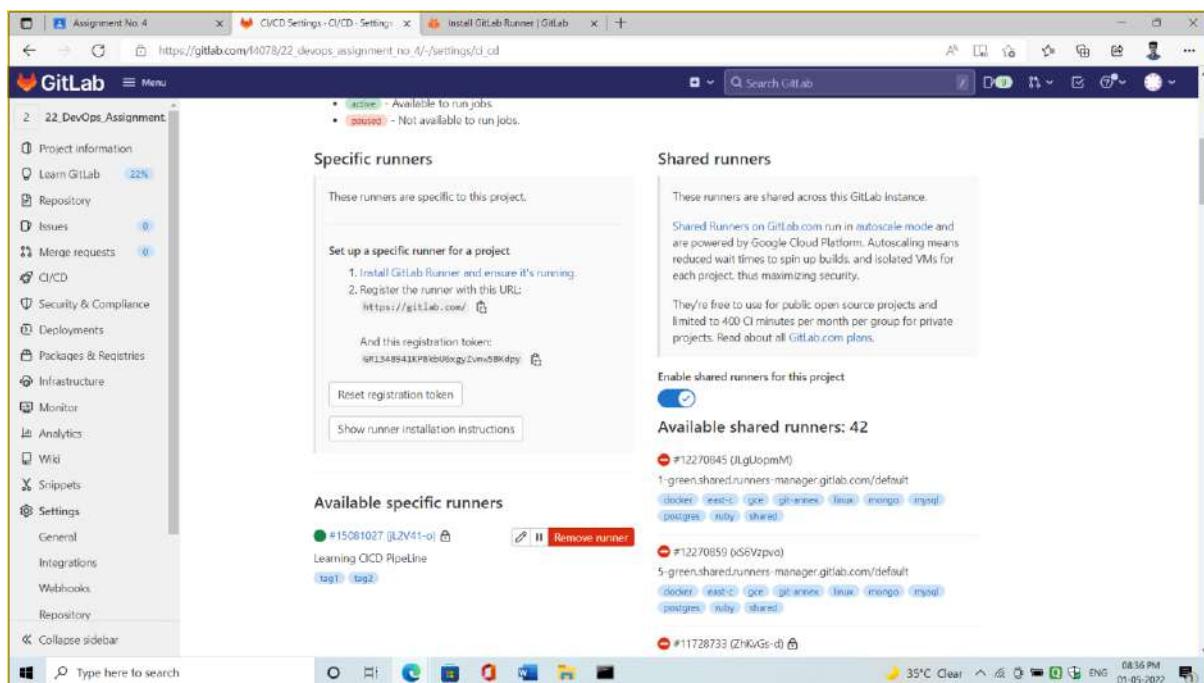
ASSIGNMENT NO: 4

Title: GitLab CI/CD

Here we can see Status of pipeline is failed as below:



The screenshot shows the GitLab Pipelines interface for a project named '22_DevOps_Assignment'. A modal window titled 'Changes to free tier public projects' is displayed, providing information about the transition to paid tiers. Below the modal, a table lists pipelines. One pipeline, 'Update .gitlab-ci.yml' (ID #528876039), is shown with a status of 'failed' and a timestamp of '49 seconds ago'. The pipeline has two stages: 'main' and '22bf6e21', both of which are marked as 'errored'.



The screenshot shows the 'CI/CD Settings - CI/CD - Settings' page for the same project. The left sidebar includes options like Project information, Learn GitLab, Repository, Issues, Merge requests, CI/CD, Security & Compliance, Deployments, Packages & Registries, Infrastructure, Monitor, Analytics, Wiki, Snippets, and Settings. The main content area is titled 'Specific runners' and contains instructions for setting up a specific runner for the project. It shows a registration token: 'iR1348941KPBkU0XgyZvmS8Kdpy'. Below this, there's a section for 'Available specific runners' with one entry: '#15081027 (jL2V4t-o)'. To the right, the 'Shared runners' section is shown, indicating 'Available shared runners: 42' with several entries listed, such as '#12270845 (JlgUpmM)', '#12270859 (xS8Vzpvo)', and '#11728733 (ZhkvGs-d)'.

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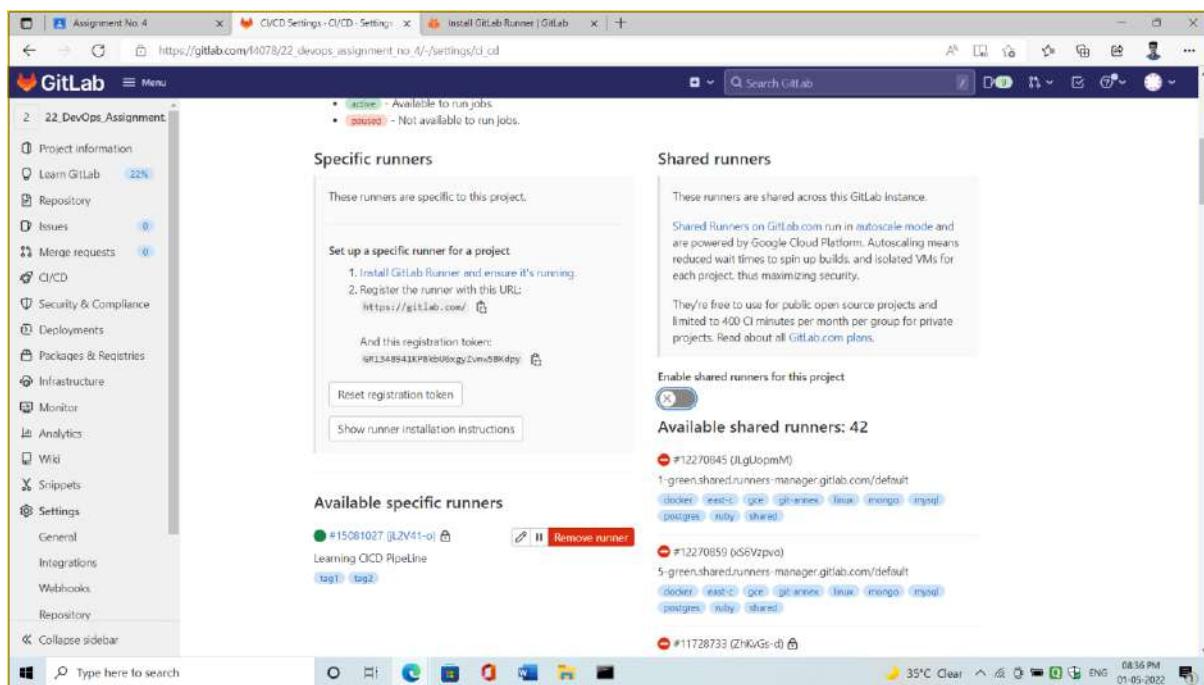
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 4

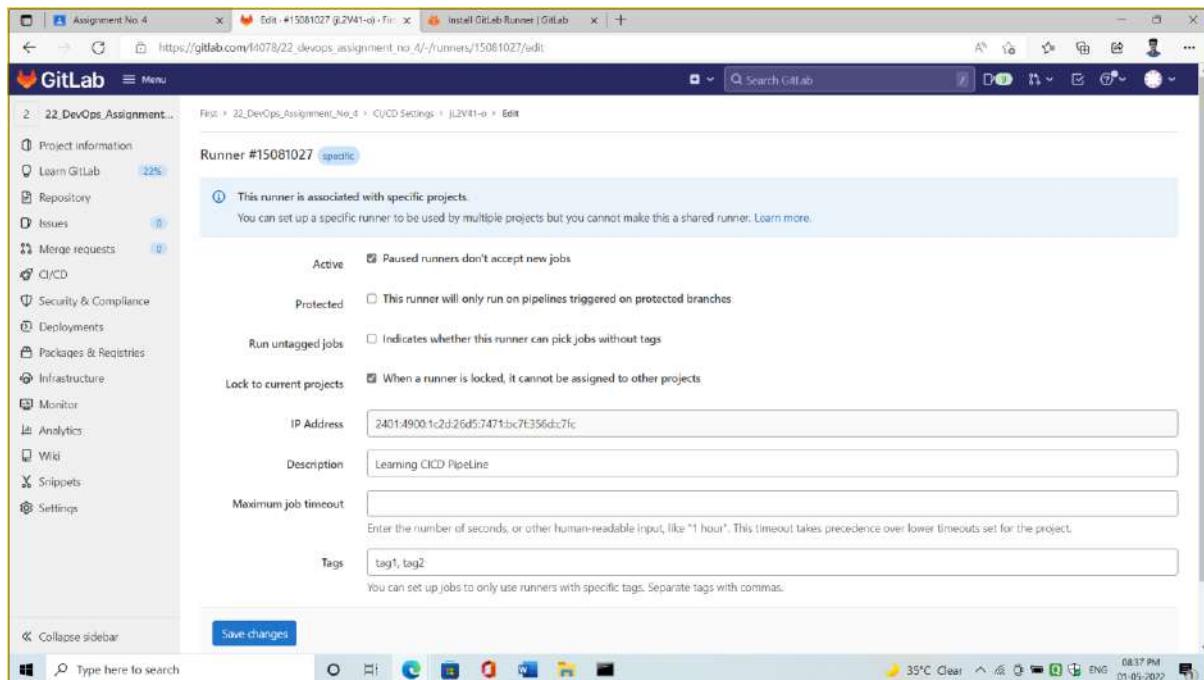
Title: GitLab CI/CD

First, we will Disable the Shared runners as below:



The screenshot shows the 'Shared runners' section of the GitLab CI/CD Settings. It explains that shared runners are shared across the instance and run in autoscale mode. It lists two sections: 'Available shared runners' and 'Available specific runners'. Under 'Available shared runners', there are 42 entries, each with a status icon, runner ID, and a 'Remove runner' button. Under 'Available specific runners', there is one entry: 'Learning CI/CD PipeLine' with tags 'tag1, tag2'. A red box highlights the 'Remove runner' button for the specific runner.

Then we will click on pencil icon in the available specific runners:



The screenshot shows the 'Edit' page for Runner #15081027. The top navigation bar includes 'Edit', '#15081027 (jl2V41-o)', 'File', and 'https://gitlab.com/M078/22_devops_assignment_no_4/-/runners/15081027/edit'. The page displays various configuration options for the runner, such as 'Active' (unchecked), 'Protected' (unchecked), 'Run untagged jobs' (unchecked), 'Lock to current projects' (unchecked), 'IP Address' (2401:4900:1c2d:26d5:7471:bc7f:356dc:7fc), 'Description' (Learning CI/CD PipeLine), 'Maximum job timeout' (empty input field), and 'Tags' (tag1, tag2). A note at the bottom of the tags section states: 'You can set up jobs to only use runners with specific tags. Separate tags with commas.' A blue 'Save changes' button is located at the bottom left.

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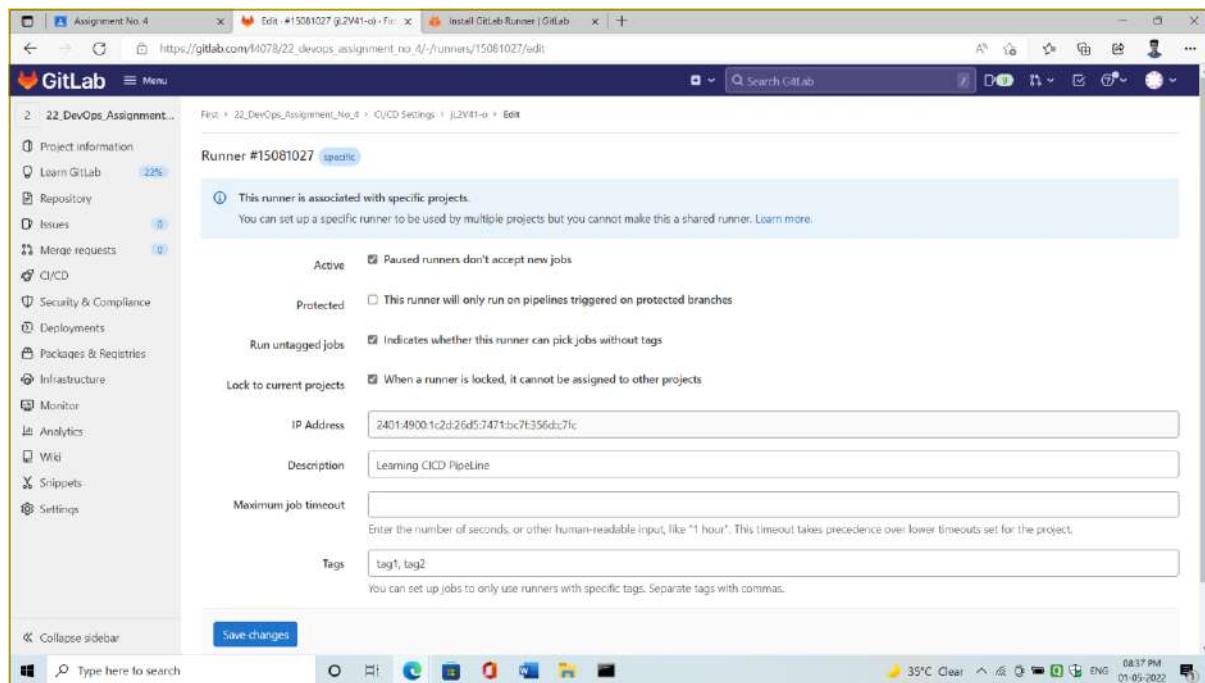
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 4

Title: GitLab CI/CD

Then we will check the third checkbox as below:

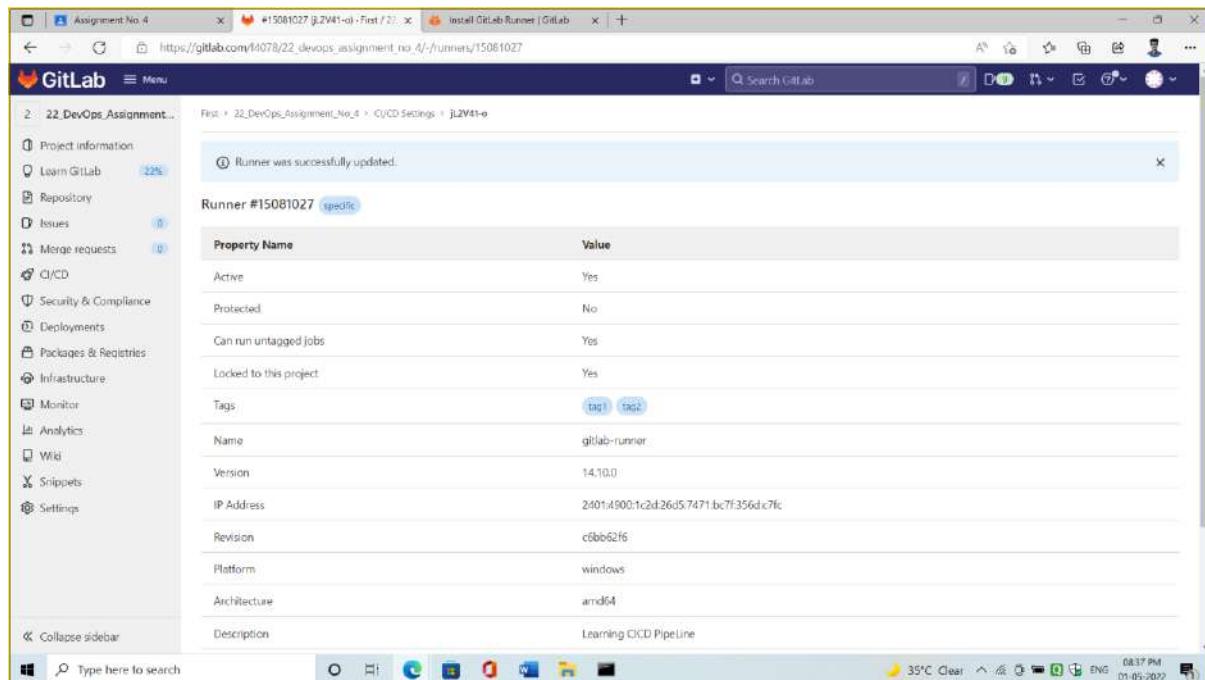


The screenshot shows the GitLab interface for editing CI/CD settings. The left sidebar has '2: 22_DevOps_Assignment...' selected. The main area shows 'Runner #15081027 [specific]'. A note says 'This runner is associated with specific projects.' Below are several configuration options with checkboxes:

- Active (checked)
- Protected (unchecked)
- Run untagged jobs (checked)
- Lock to current projects (unchecked)
- IP Address: 2401:4900:1c2d:26d5:7471:bc7f:356d:c7fc
- Description: Learning CI/CD Pipeline
- Maximum job timeout: (empty input field)
- Tags: tag1, tag2

A 'Save changes' button is at the bottom.

Then we can see that changes are successfully saved as below:



The screenshot shows the same GitLab interface after saving changes. The main area now displays a success message: 'Runner was successfully updated.' Below it is a table of runner properties:

Property Name	Value
Active	Yes
Protected	No
Can run untagged jobs	Yes
Locked to this project	Yes
Tags	tag1 tag2
Name	gitlab-runner
Version	14.10.0
IP Address	2401:4900:1c2d:26d5:7471:bc7f:356d:c7fc
Revision	c6bb6216
Platform	windows
Architecture	amd64
Description	Learning CI/CD Pipeline

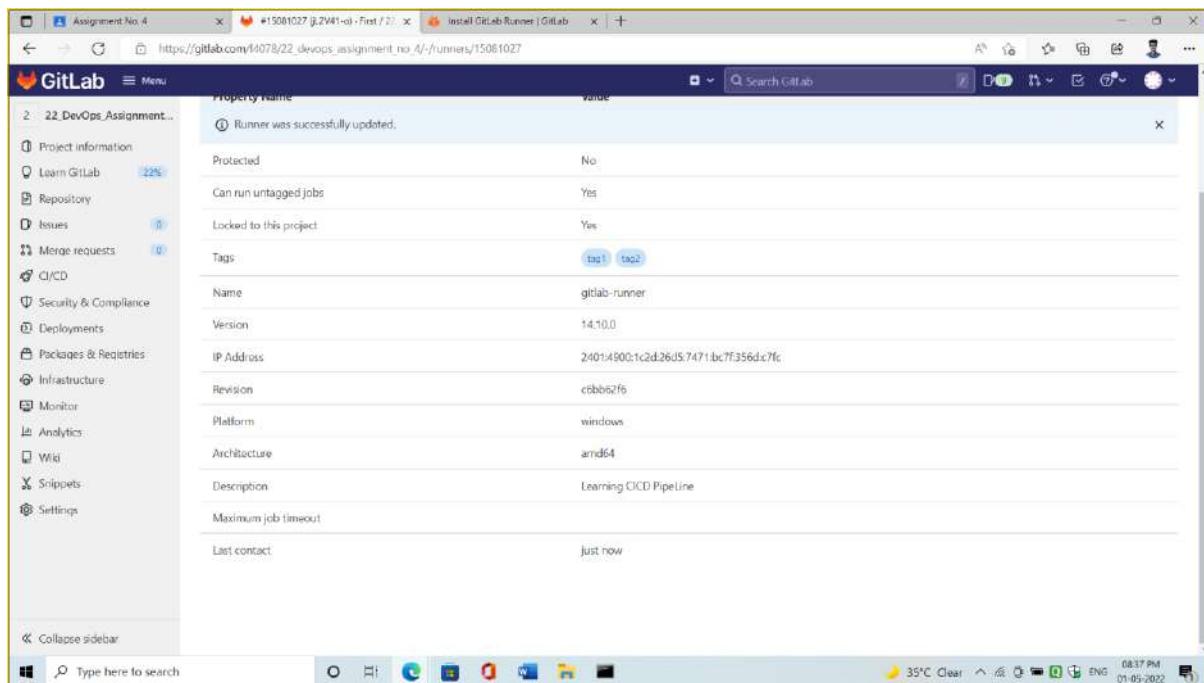
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Roll No: 22

ASSIGNMENT NO: 4

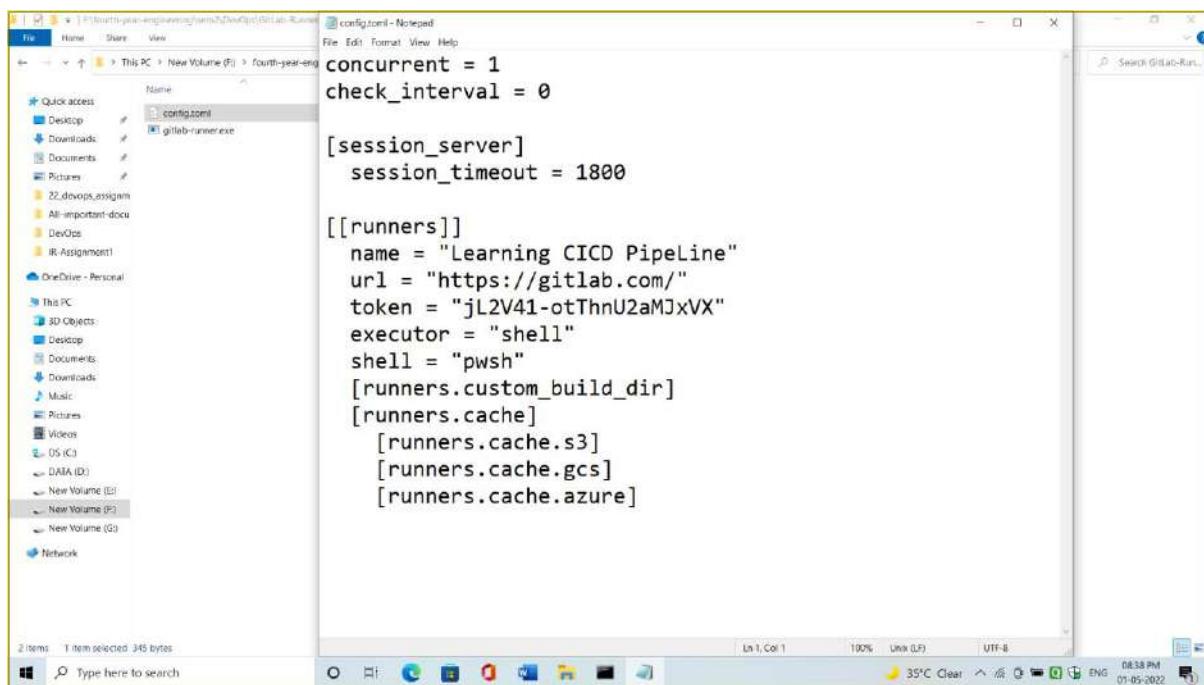
Title: GitLab CI/CD



The screenshot shows a GitLab runner configuration page. The runner has been successfully updated. Key details include:

- Protected: No
- Can run untagged jobs: Yes
- Locked to this project: Yes
- Tags: tag1, tag2
- Name: gitlab-runner
- Version: 14.10.0
- IP Address: 2401:4900:1c2d:26d5:7471:bc7f:356d:c7fc
- Revision: cb6bb62f6
- Platform: windows
- Architecture: amd64
- Description: Learning CICD Pipeline
- Maximum job timeout: 1800
- Last contact: Just now

Then we will go the config file as below:



```
config.toml - Notepad
File Edit Format View Help
concurrent = 1
check_interval = 0

[session_server]
  session_timeout = 1800

[[runners]]
  name = "Learning CICD Pipeline"
  url = "https://gitlab.com/"
  token = "jL2V41-otThnU2aMJxVX"
  executor = "shell"
  shell = "pwsh"
  [runners.custom_build_dir]
  [runners.cache]
    [runners.cache.s3]
    [runners.cache.gcs]
    [runners.cache.azure]
```

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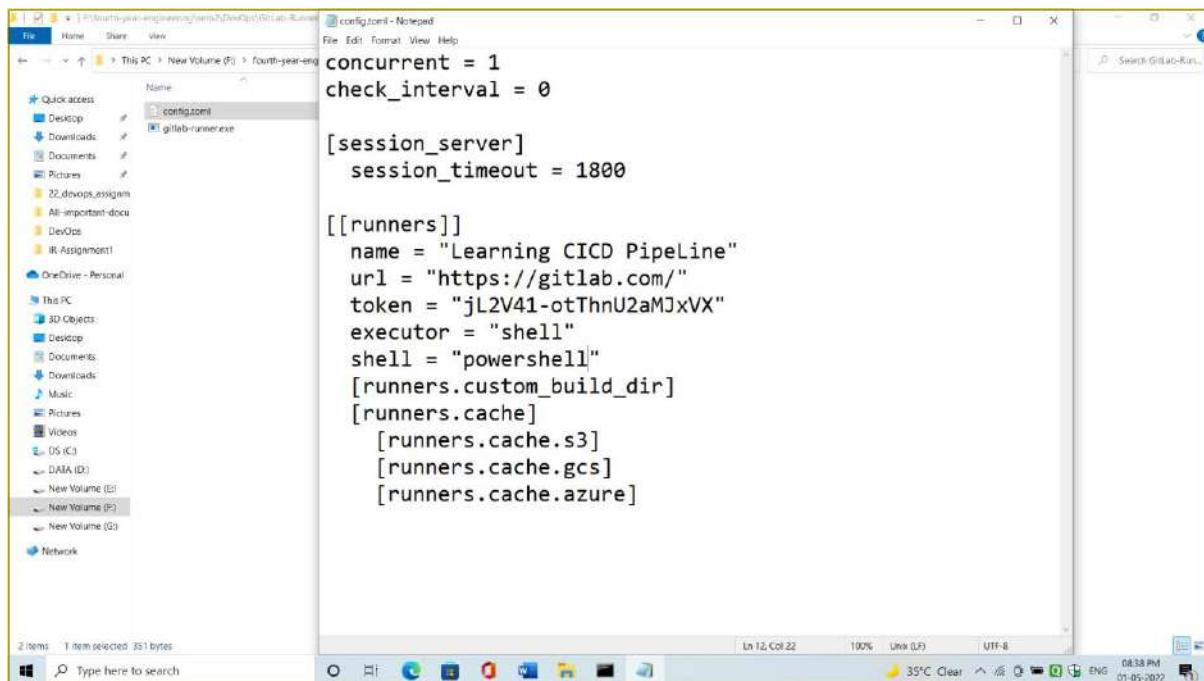
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Roll No: 22

ASSIGNMENT NO: 4

Title: GitLab CI/CD

Then we will replace “pwsh” as “powershell” as below:

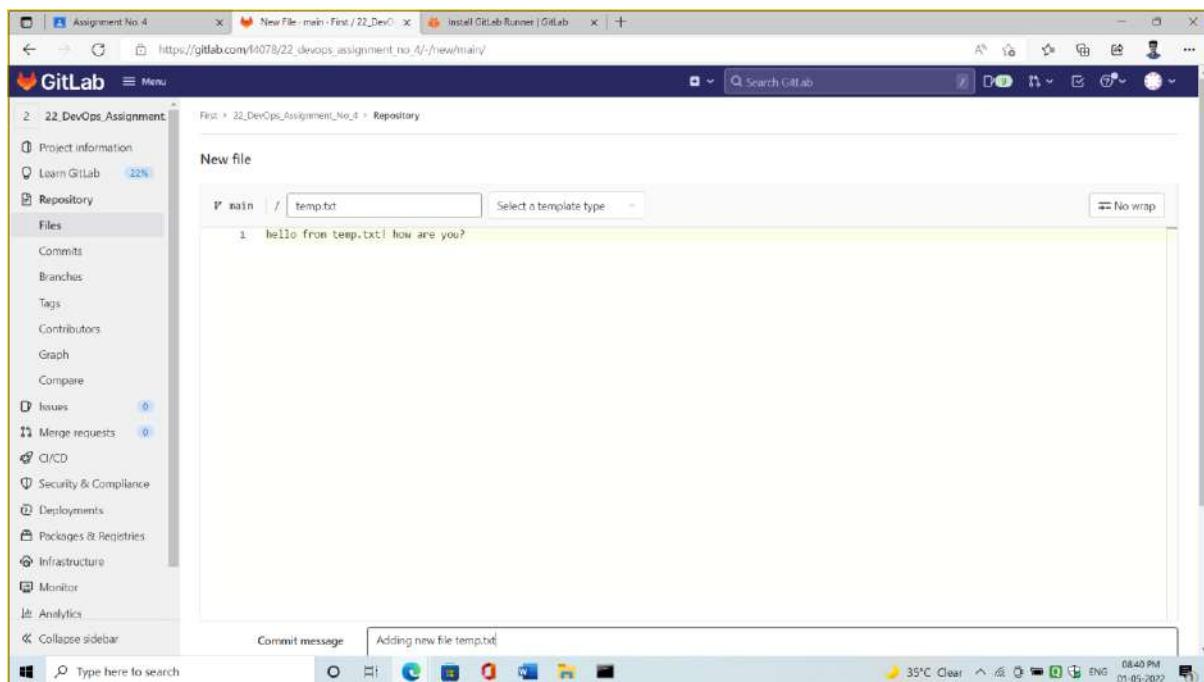


```
concurrent = 1
check_interval = 0

[session_server]
  session_timeout = 1800

[[runners]]
  name = "Learning CICD Pipeline"
  url = "https://gitlab.com/"
  token = "jL2V41-otThnU2aMJxVX"
  executor = "shell"
  shell = "powershell"
  [runners.custom_build_dir]
  [runners.cache]
    [runners.cache.s3]
    [runners.cache.gcs]
    [runners.cache.azure]
```

Then we will add temp.txt file in Repository as below:



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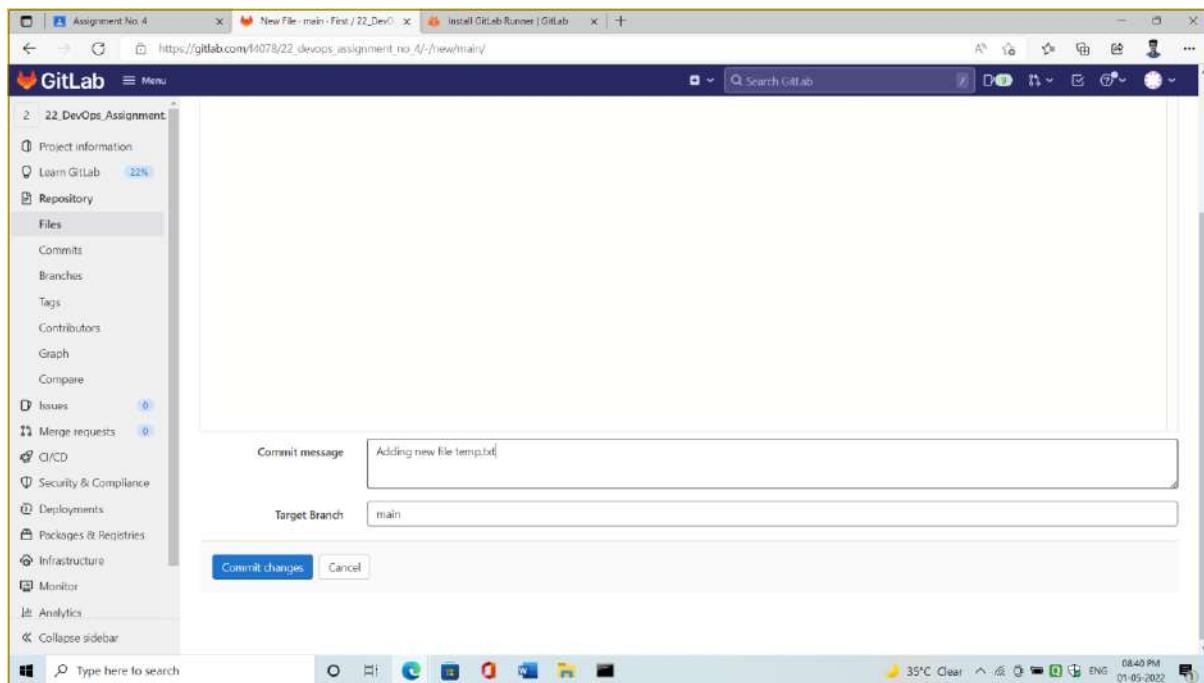
Name: Abhishek Basavraj Kanshetti

Roll No: 22

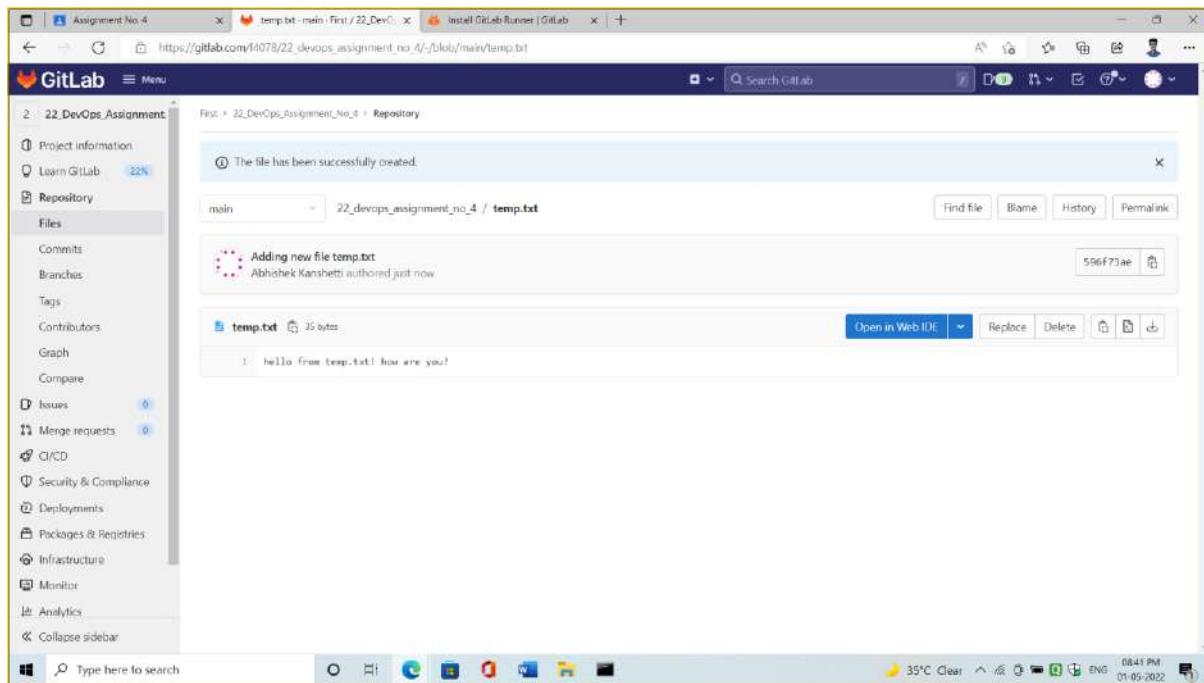
ASSIGNMENT NO: 4

Title: GitLab CI/CD

Then we will commit the Changes:



File added Successfully as below:



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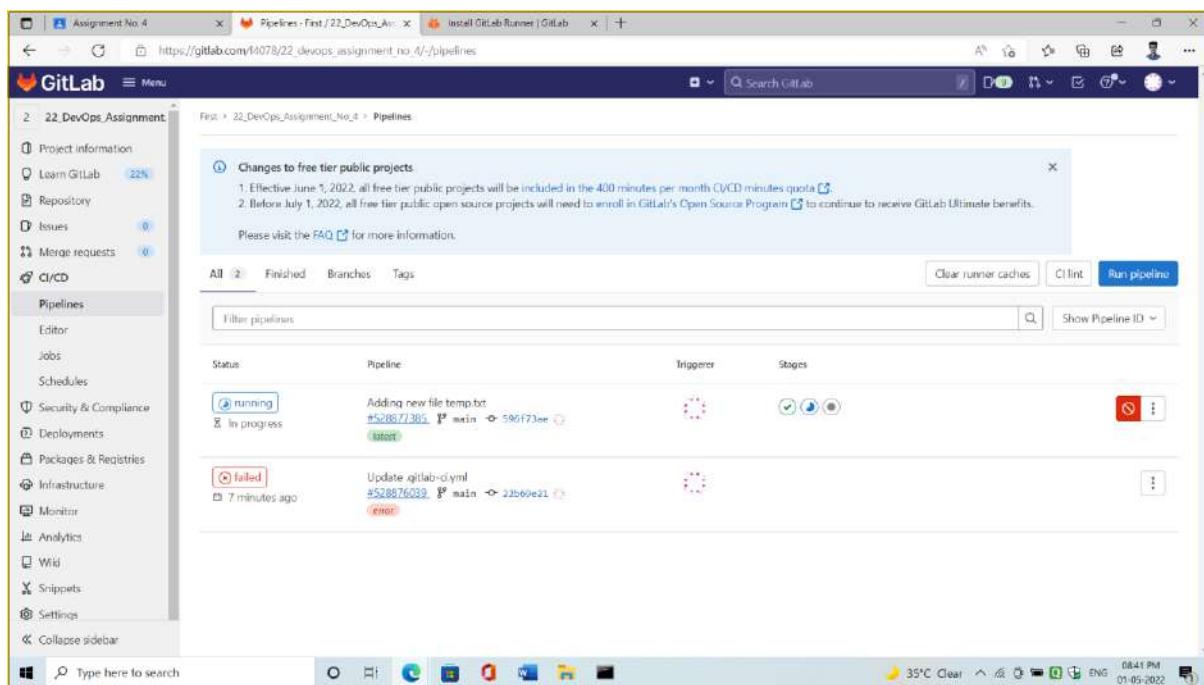
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 4

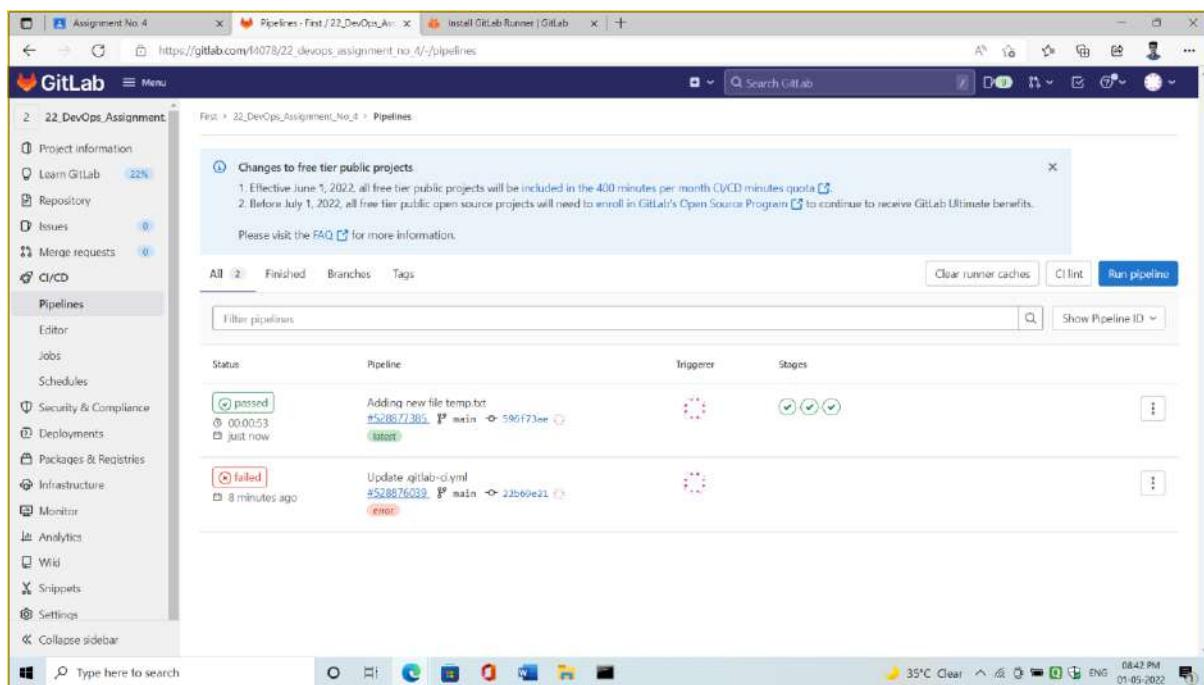
Title: GitLab CI/CD

Now we will see the status of pipeline, it is showing “running”:



Status	Pipeline	Triggerer	Stages
running	Adding new file temp.txt #528877385 main -> 596f73ee [initial]		Passed
failed	Update gitlab-ci.yml #528876039 main -> 22b69e21 [error]		Failed

Here in the below screenshot, we can see that all stages are passed and final status is also “passed” as shown below:



Status	Pipeline	Triggerer	Stages
passed	Adding new file temp.txt #528877385 main -> 596f73ee [initial]		Passed
passed	Update gitlab-ci.yml #528876039 main -> 22b69e21 [error]		Passed

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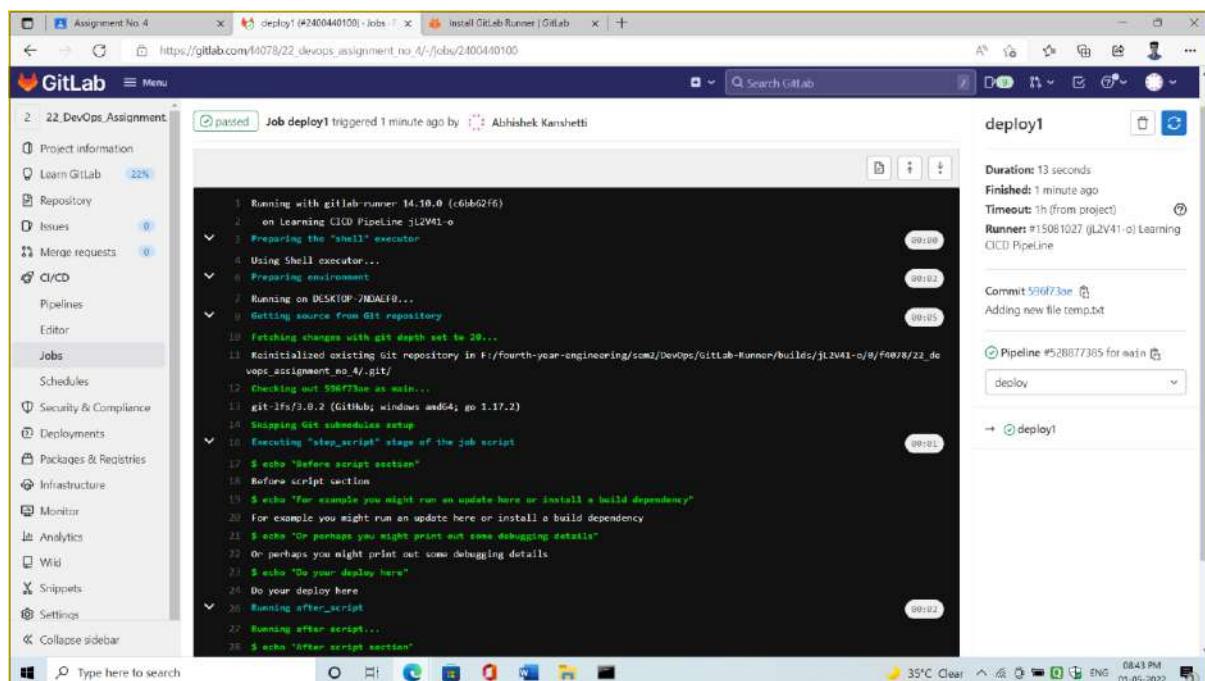
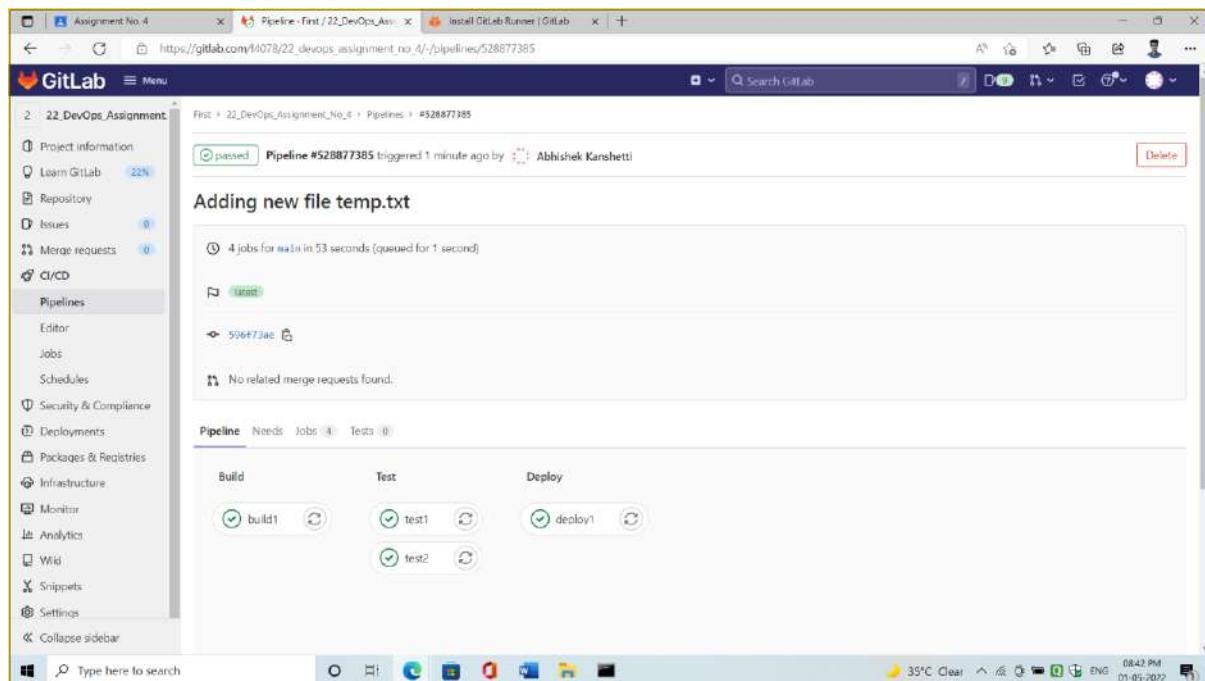
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Roll No: 22

ASSIGNMENT NO: 4

Title: GitLab CI/CD

Some Screenshot that shows All stages are Successfully Passed as below:



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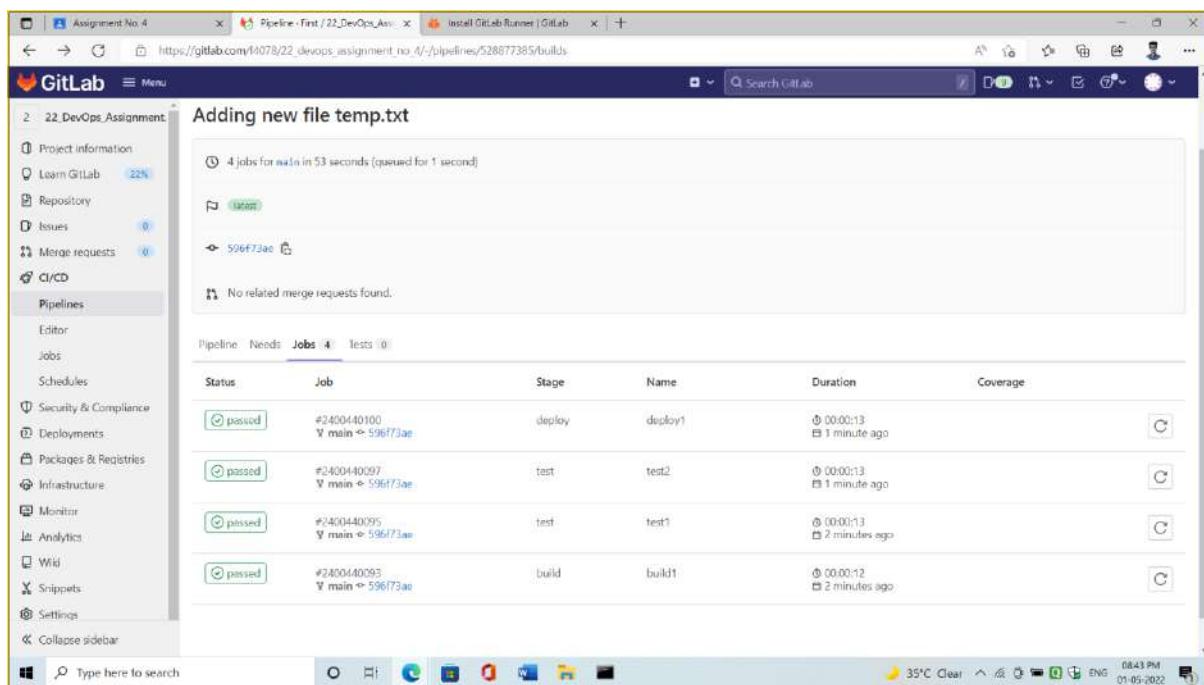
Name: Abhishek Basavraj Kanshetti

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ASSIGNMENT NO: 4

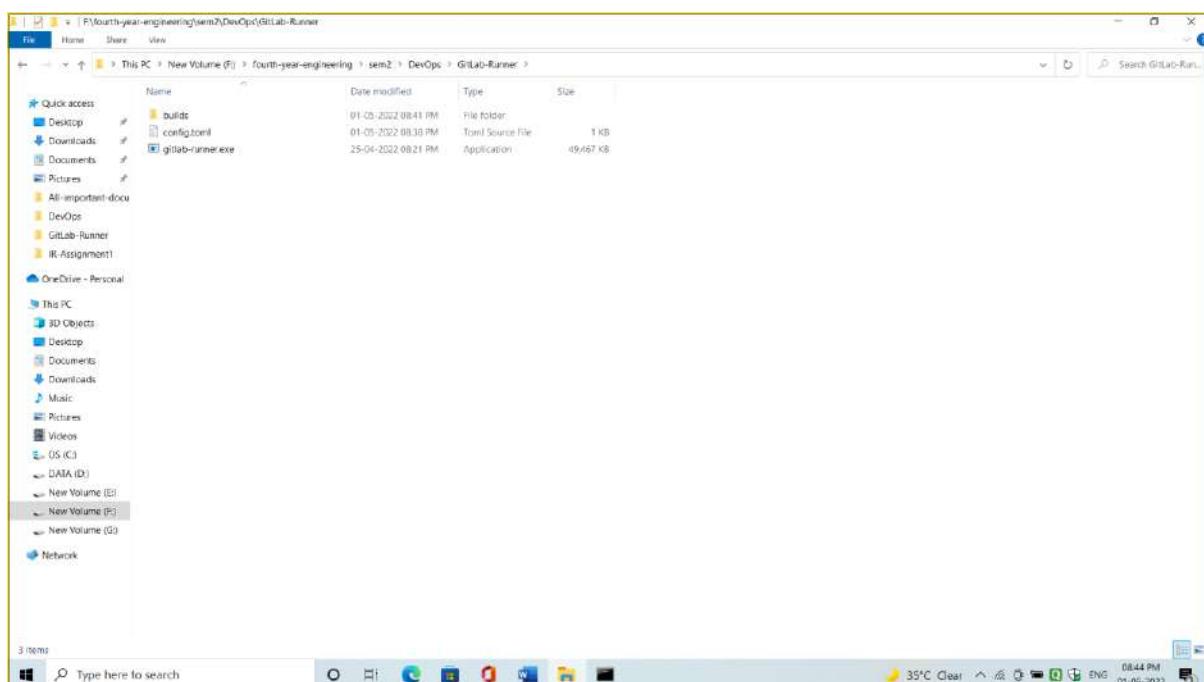
Title: GitLab CI/CD

All completed job as below:



The screenshot shows a Microsoft Edge browser window displaying a GitLab pipeline. The pipeline is titled "Assignment No. 4". It consists of four jobs: "deploy1", "test2", "test1", and "build1", all of which have passed. The pipeline status is green. The pipeline interface includes a sidebar with various GitLab features like Project information, Learn GitLab, Repository, Issues, Merge requests, CI/CD, Pipelines, Editor, Jobs, Schedules, Security & Compliance, Deployments, Packages & Registries, Infrastructure, Monitor, Analytics, Wiki, Snippets, Settings, and Collapse sidebar. The main area shows the pipeline details with columns for Status, Job, Stage, Name, Duration, and Coverage.

Now we can see that in Our Gitlab-Runner Folder, a new folder is created as “builds” as follow:



The screenshot shows a Windows File Explorer window displaying the contents of a folder named "GitLab-Runner". Inside this folder, there is a subfolder named "builds", a file named "config.toml", and an executable file named "gitlab-runner.exe". The file explorer interface includes a left sidebar with Quick access, Desktop, Downloads, Documents, Pictures, All-important-docs, DevOps, GitLab-Runner, IR-Assignment!, OneDrive - Personal, This PC, and Network. The bottom of the screen shows the Windows taskbar with various pinned icons and system status indicators.

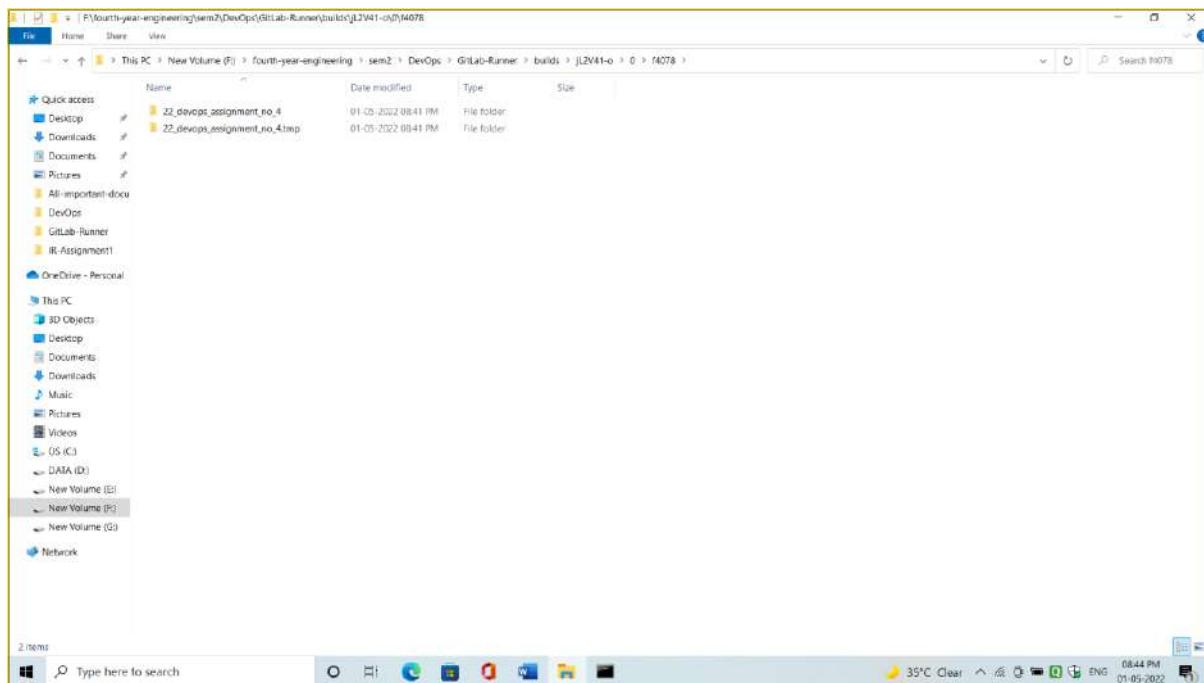
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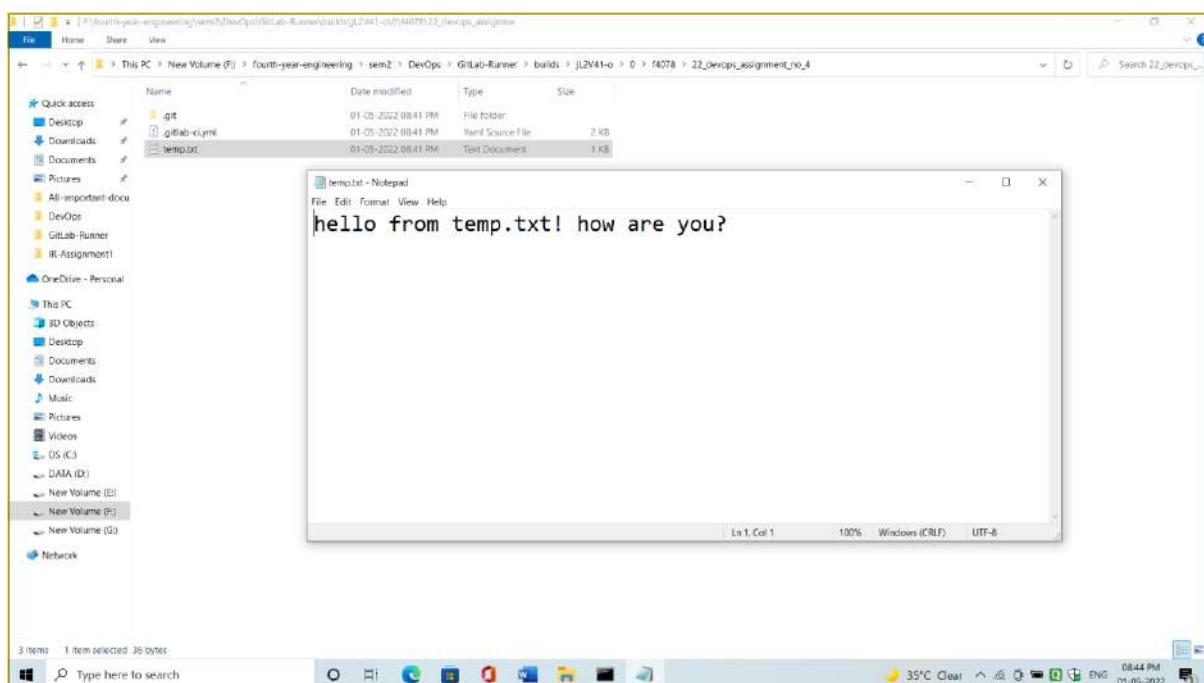
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ASSIGNMENT NO: 4

Title: GitLab CI/CD



Here we can see that our temp.txt file which was added in our remote repository:



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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Aim:

To Create a job in Jenkins.

Problem statement:

Create a job in Jenkins which picks up a simple HelloWorld application from GitHub repository, builds and runs the java program.

Instructions for submitting assignments:

The file must contain steps, commands (if required) & screenshots.

Submit pdf file.

Output Screenshots:

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Roll No: 22

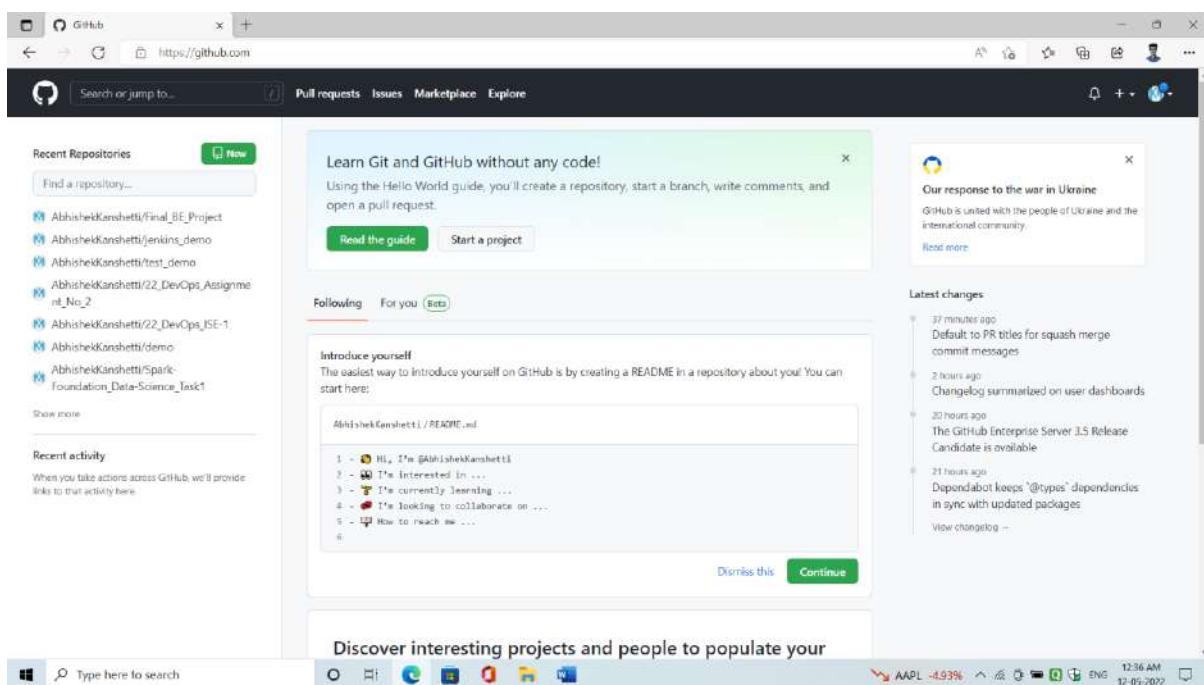
ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

First Sign in to GitHub Account: -



Signed In to GitHub Account and created Repository Named jenkinsdemo: -



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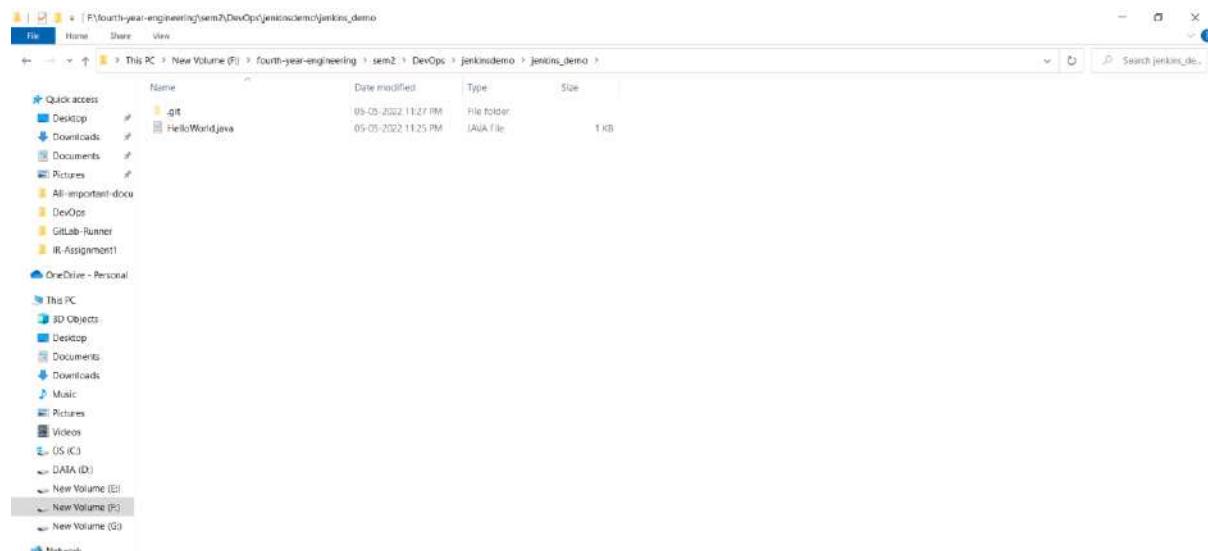
Name: Abhishek Basavraj Kanshetti

Roll No: 22

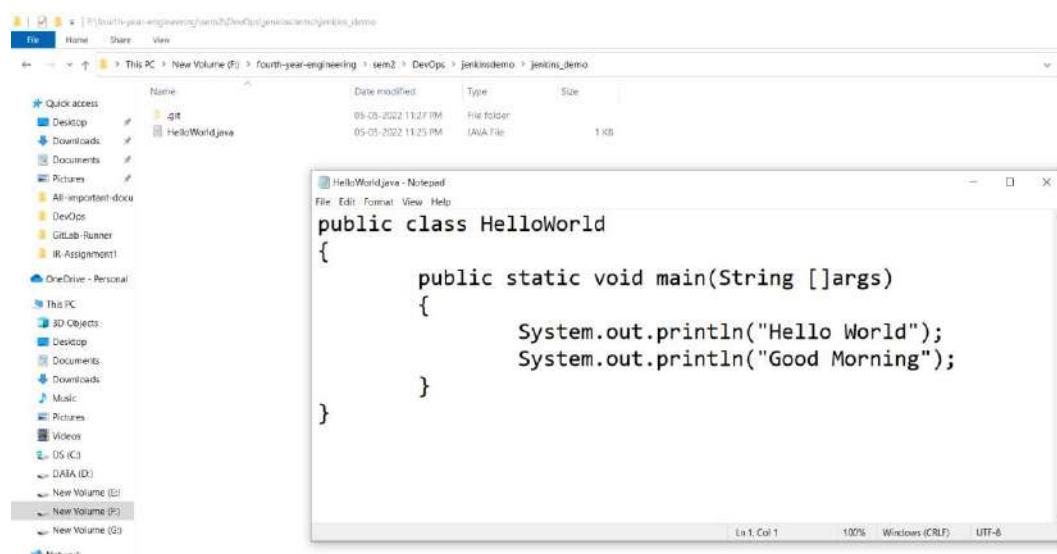
ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Initialized the git repository and added the HelloWorld.java file as follow: -



HelloWorld.java file as follow: -



```
public class HelloWorld
{
    public static void main(String []args)
    {
        System.out.println("Hello World");
        System.out.println("Good Morning");
    }
}
```



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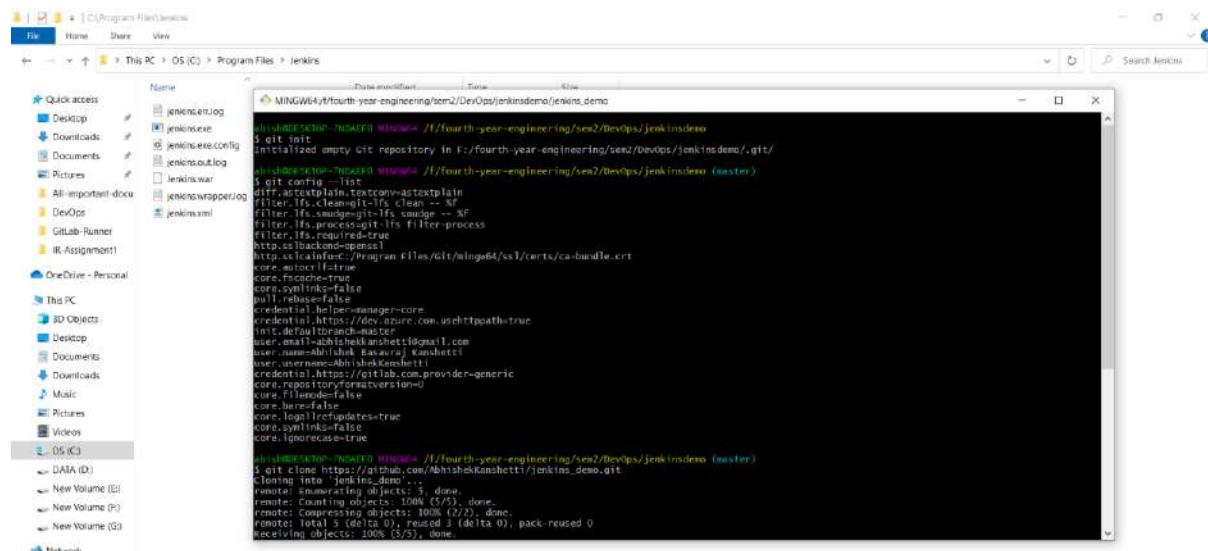
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Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Added HelloWorld.java file, Committed and Pushed the file to Remote Repository as follow: -



```

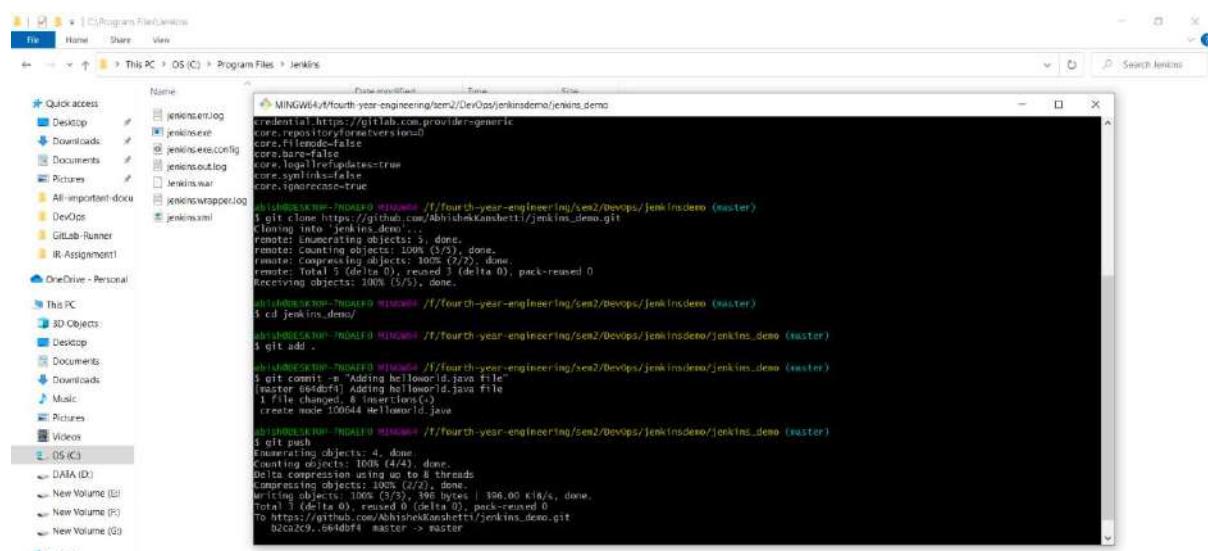
MINGW64 /f/fourth-year-engineering/sem2/DevOps/jenkinsdemo/jenkins_demo
$ git init
Initialized empty Git repository in f:/fourth-year-engineering/sem2/DevOps/jenkinsdemo/.git/
MINGW64 /f/fourth-year-engineering/sem2/DevOps/jenkinsdemo (master)
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.cleangit-lfs clean -- .gitattributes -- .gitignore -- *
filter.lfs.processgit-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
https://github.com/Program Files/Git/mingw64/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential=https://dev.azure.com/usehttpauth=true
init.defaultbranch=master
user.name=Abhishek Basavraj Kanshetti
user.username=AbhishekKanshetti
credential=https://gitlab.kanshetti.com/provider-generic
core.repositoryformatversion=0
core.filter=none
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true

MINGW64 /f/fourth-year-engineering/sem2/DevOps/jenkinsdemo (master)
$ git clone https://github.com/AbhishekKanshetti/jenkins_demo.git
Cloning into 'jenkins_demo'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

MINGW64 /f/fourth-year-engineering/sem2/DevOps/jenkinsdemo (master)
$ cd jenkins_demo/
MINGW64 /f/fourth-year-engineering/sem2/DevOps/jenkinsdemo (master)
$ git add .
MINGW64 /f/fourth-year-engineering/sem2/DevOps/jenkinsdemo (master)
$ git commit -e "Adding HelloWorld.java file"
[master 664dbf4] Adding HelloWorld.java file
 1 file changed, 8 insertions(+)
 create mode 100644 HelloWorld.java

MINGW64 /f/fourth-year-engineering/sem2/DevOps/jenkinsdemo (master)
$ git push
Enumerating objects: 4, done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 395 bytes | 350.00 KiB/s, done.
To https://github.com/AbhishekKanshetti/jenkins_demo.git
 b2ca2c9..664dbf4 master -> master

```

```

MINGW64 /f/fourth-year-engineering/sem2/DevOps/jenkinsdemo/jenkins_demo
$ git commit -e "Adding HelloWorld.java file"
[master 664dbf4] Adding HelloWorld.java file
 1 file changed, 8 insertions(+)
 create mode 100644 HelloWorld.java

MINGW64 /f/fourth-year-engineering/sem2/DevOps/jenkinsdemo (master)
$ git push
Enumerating objects: 4, done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 395 bytes | 350.00 KiB/s, done.
To https://github.com/AbhishekKanshetti/jenkins_demo.git
 b2ca2c9..664dbf4 master -> master

```



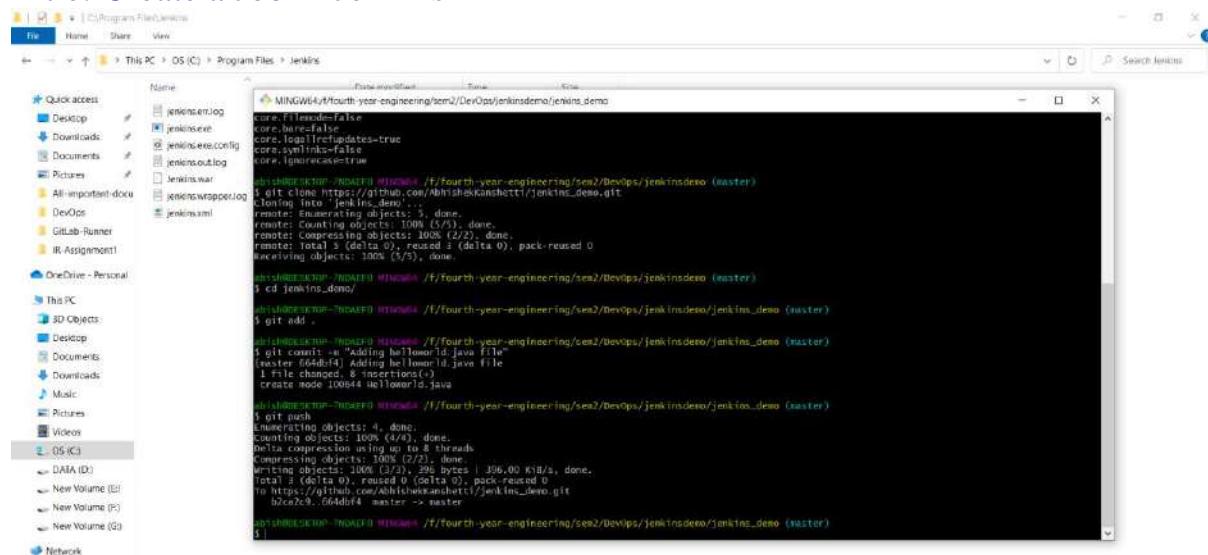
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



```

MINGW64 /f/fourth-year-engineering/se2/DevOps/jenkins_demo (master)
$ git clone https://github.com/AbhishekKanshetti/jenkins_demo
Cloning into 'jenkins_demo'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

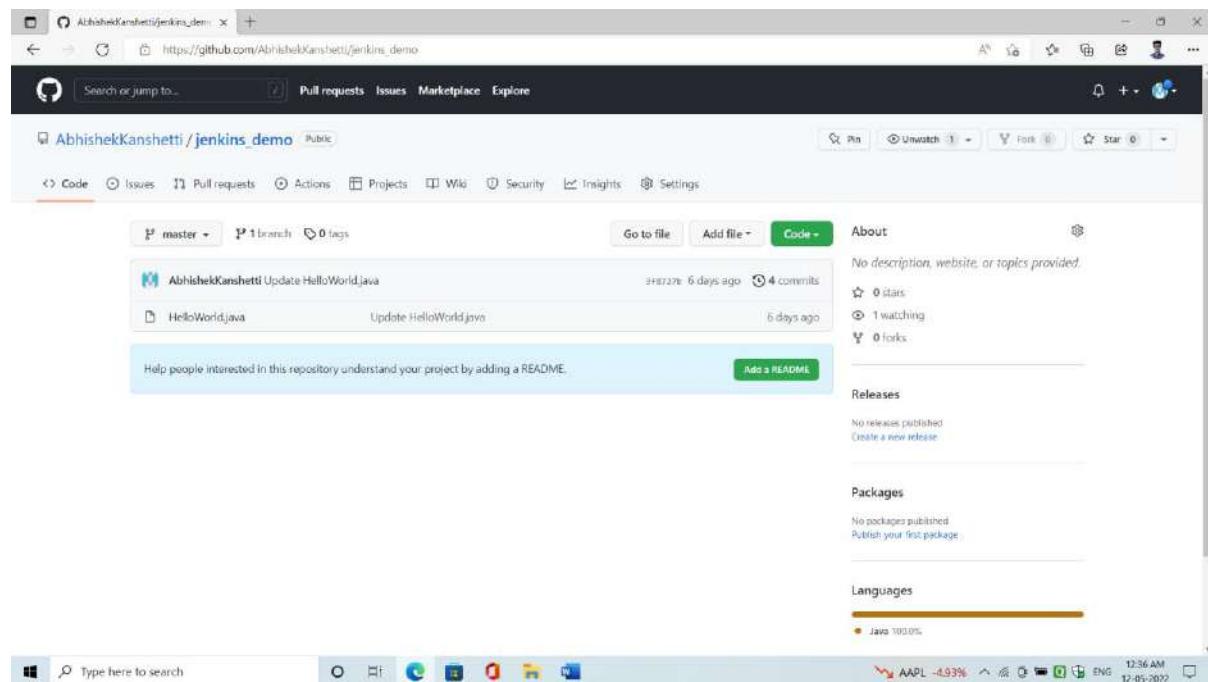
MINGW64 /f/fourth-year-engineering/se2/DevOps/jenkins_demo (master)
$ cd jenkins_demo/
MINGW64 /f/fourth-year-engineering/se2/DevOps/jenkins_demo (master)
$ git add .

MINGW64 /f/fourth-year-engineering/se2/DevOps/jenkins_demo (master)
$ git commit -m "Adding HelloWorld.java File"
[master 664bf14] Adding HelloWorld.java File
 1 file changed, 8 insertions(+)
 create mode 100644 HelloWorld.java

MINGW64 /f/fourth-year-engineering/se2/DevOps/jenkins_demo (master)
$ git push
Enumerating objects: 4, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 396 bytes | 396.00 KiB/s, done.
Total 3 (delta 0), reused 3 (delta 0)
To https://github.com/AbhishekKanshetti/jenkins_demo.git
 ! [new branch] master -> master

```

Uploaded File “HelloWorld.java” as follow on Git Repository: -



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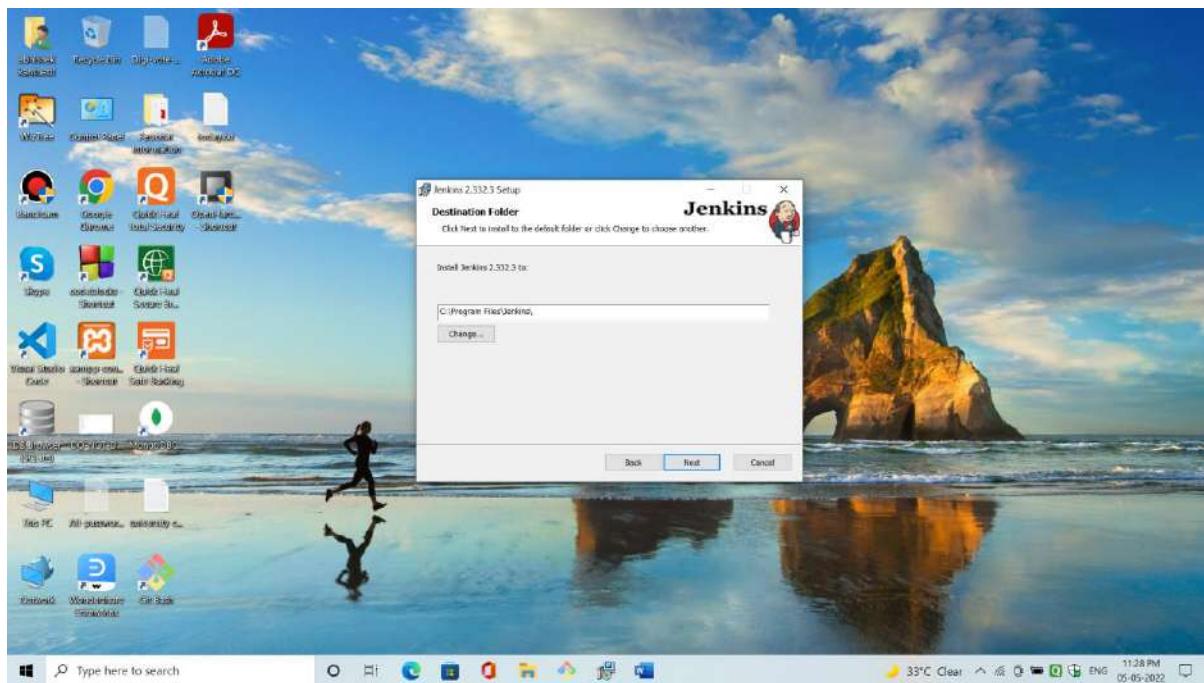
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Following are the Installation Steps for Jenkins: -



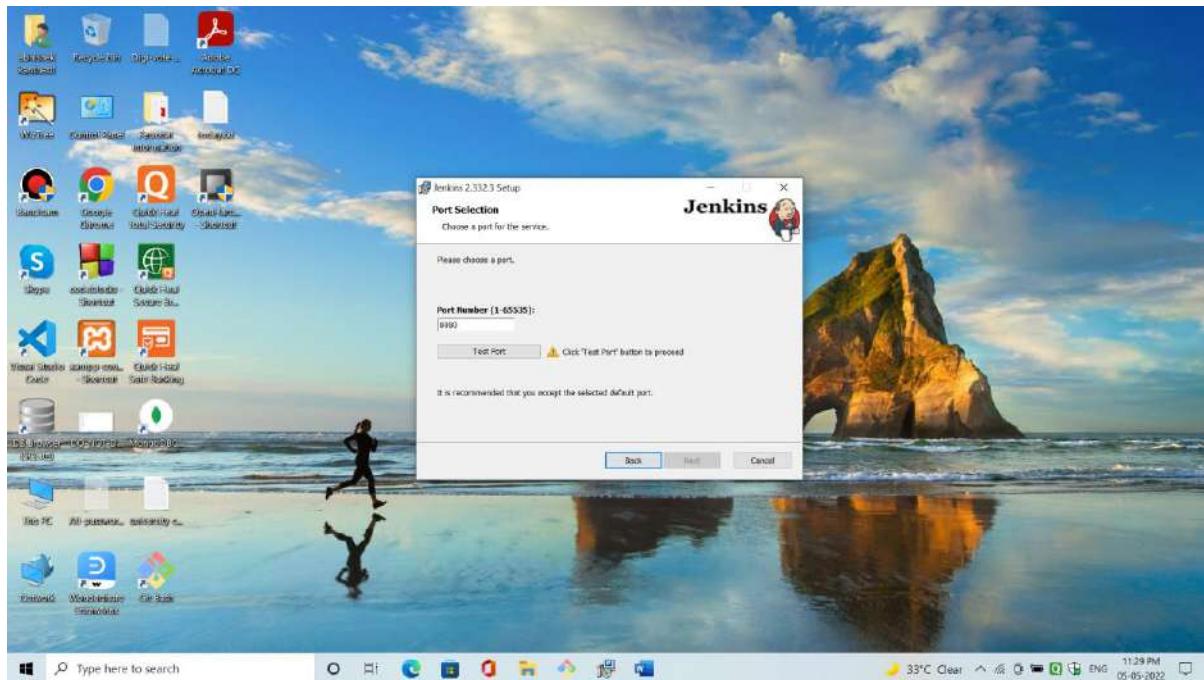
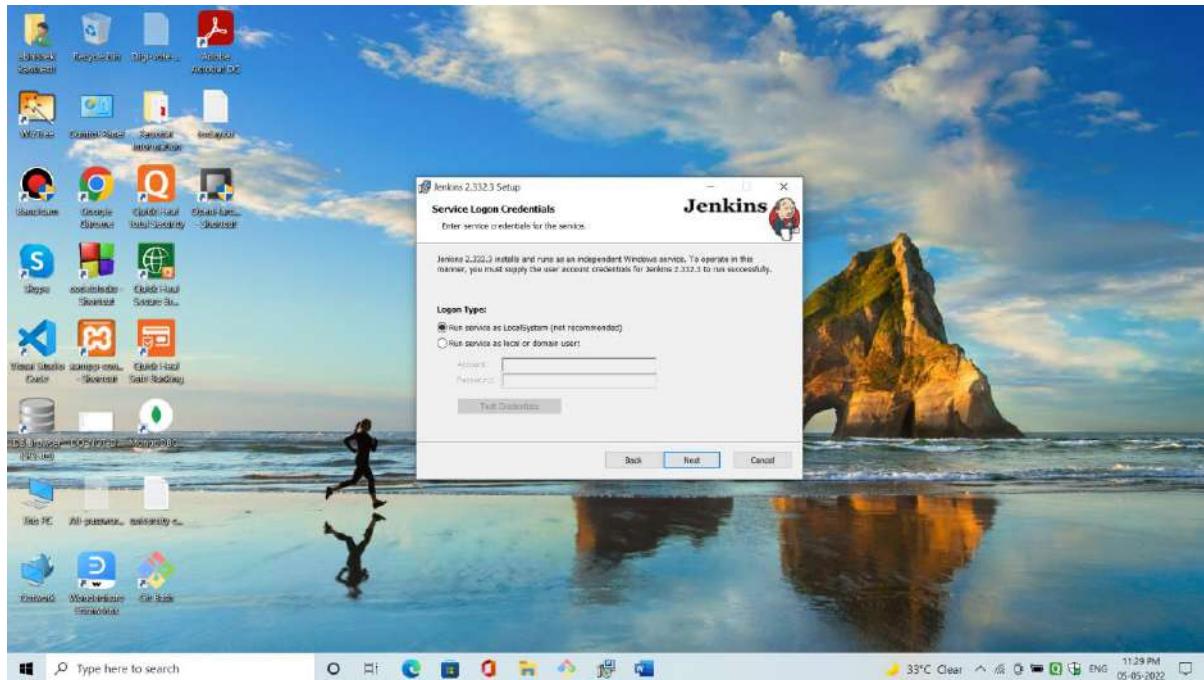
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



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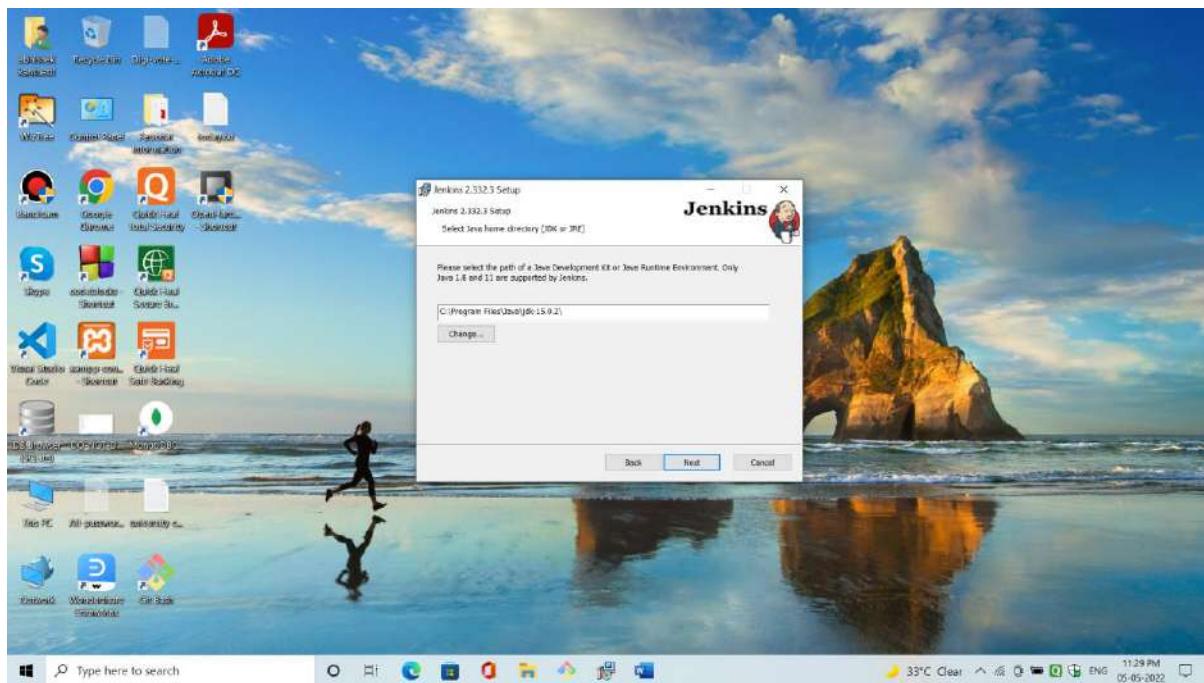
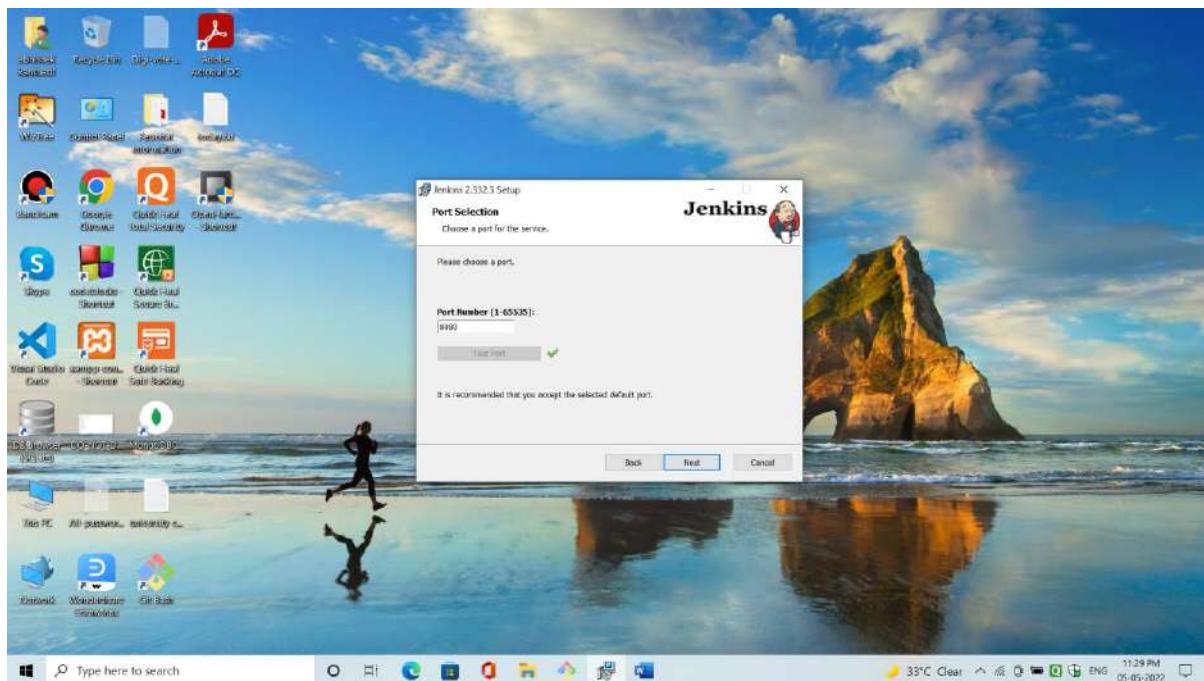
Name: Abhishek Basavraj Kanshetti

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ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Click on the Test Port: -



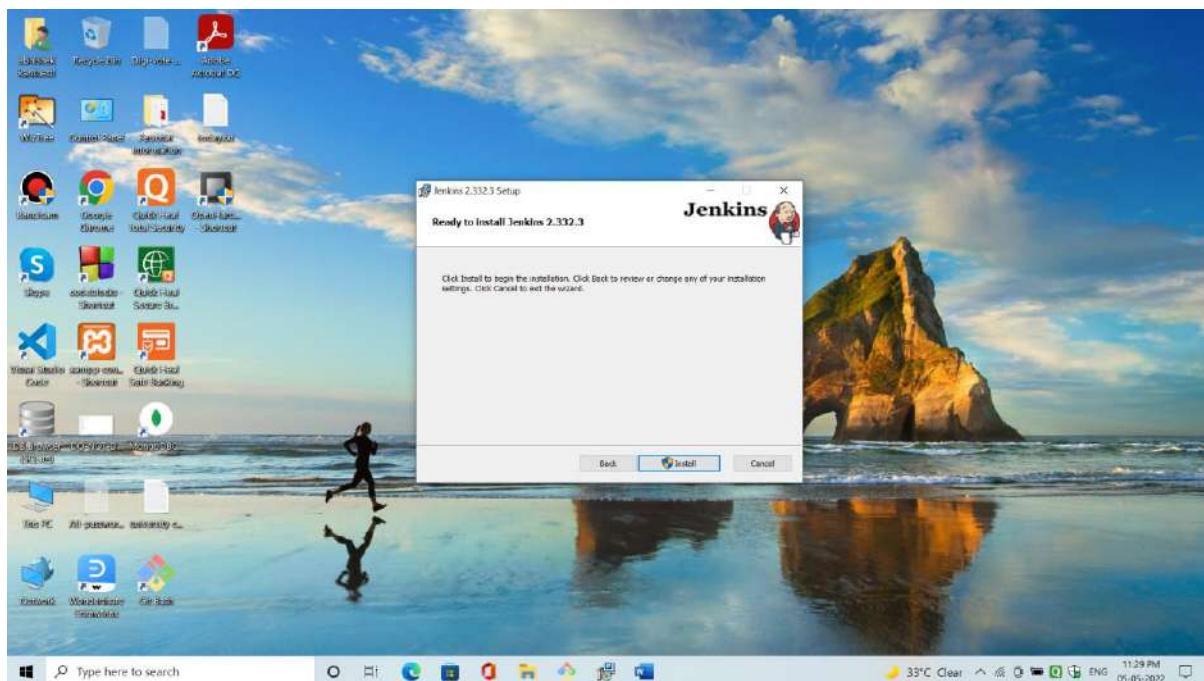
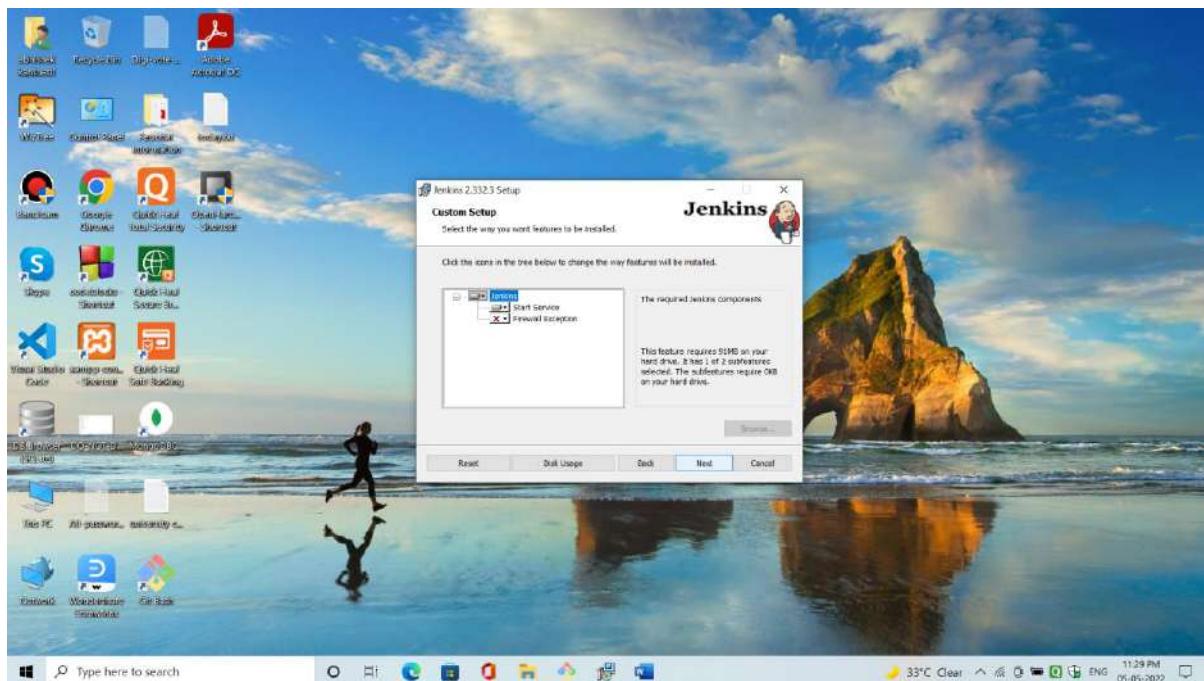
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



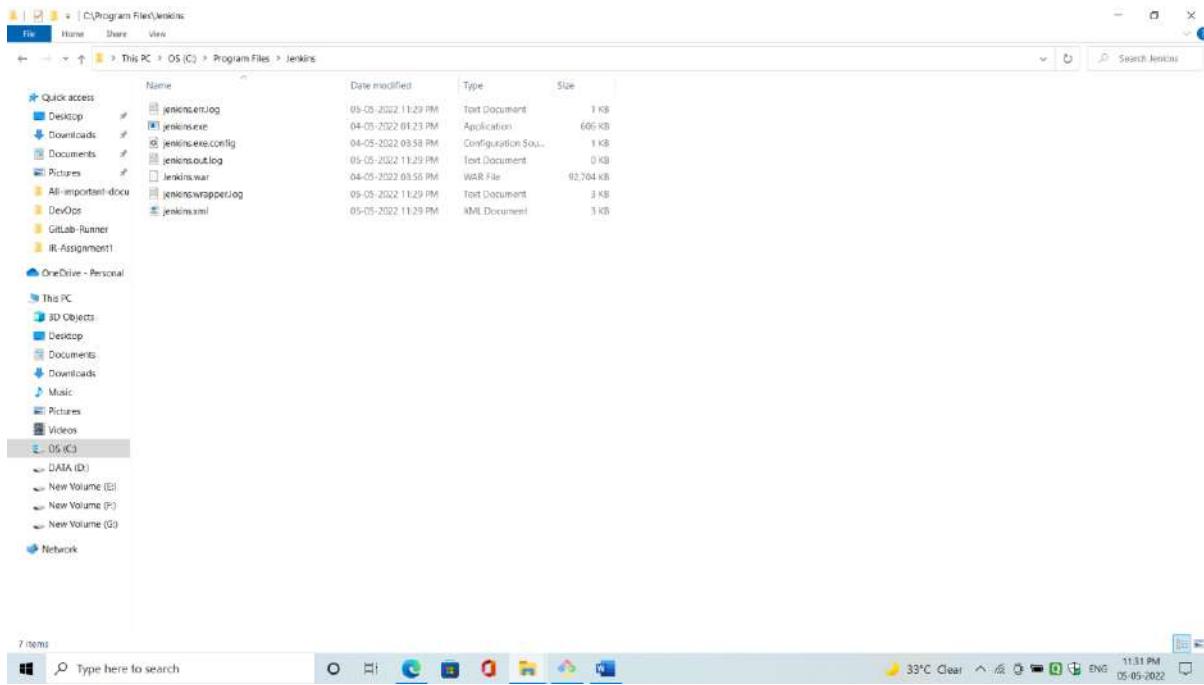
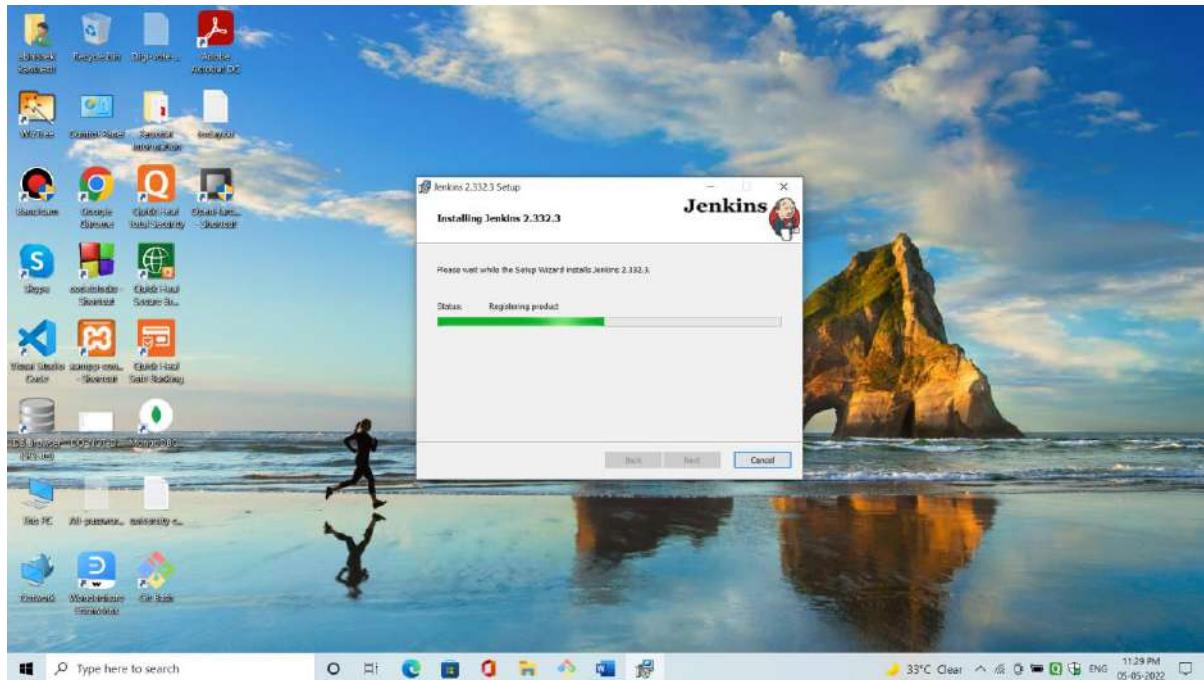
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Name: Abhishek Basavraj Kanshetti

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Title: Create a Job in Jenkins



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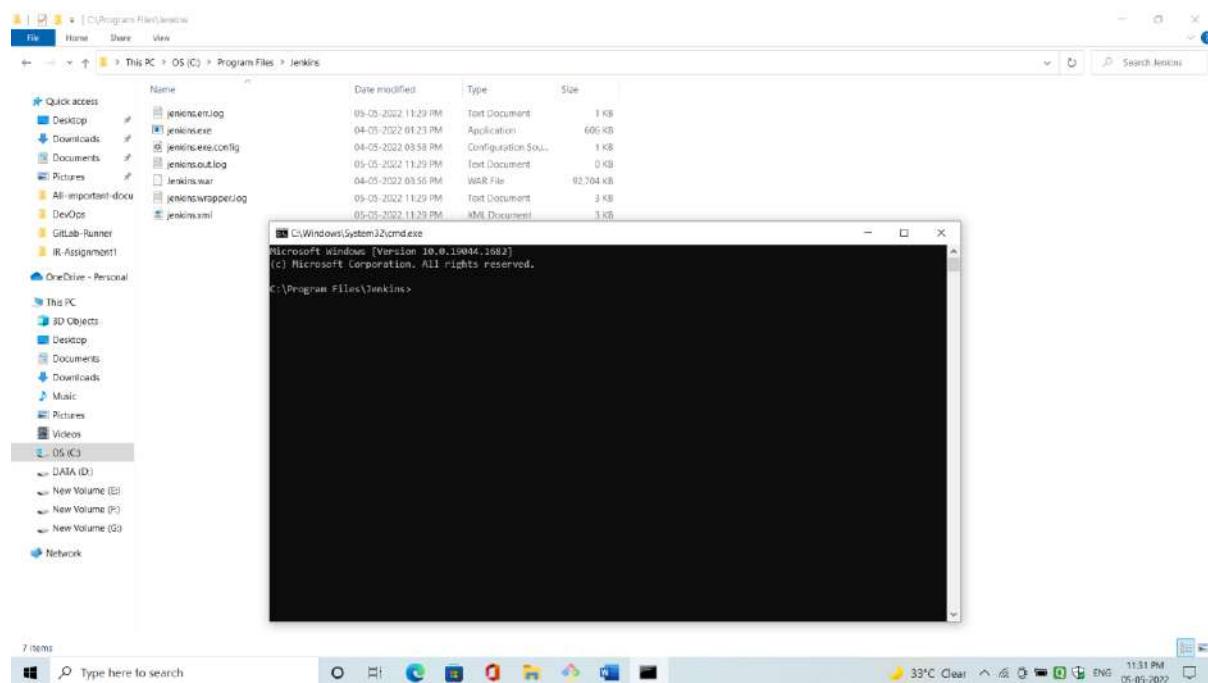
Name: Abhishek Basavraj Kanshetti

Roll No: 22

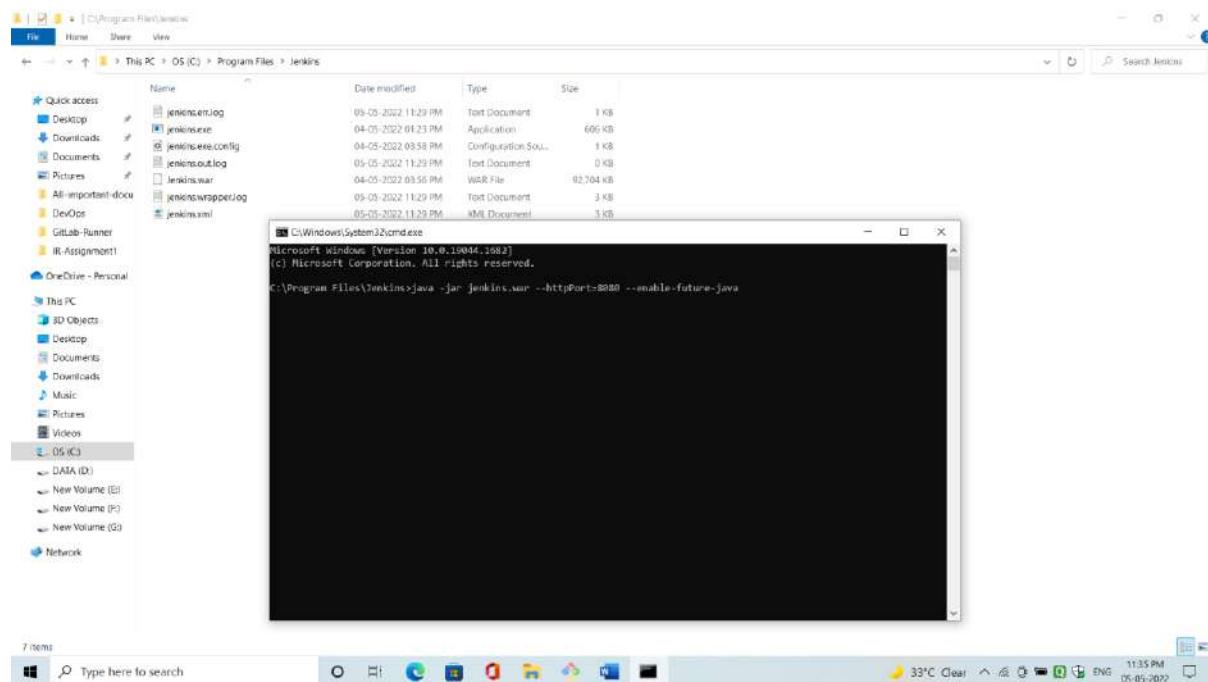
ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Open CMD in the Jenkins Installed Path: -



Give Command on CMD as follow: -



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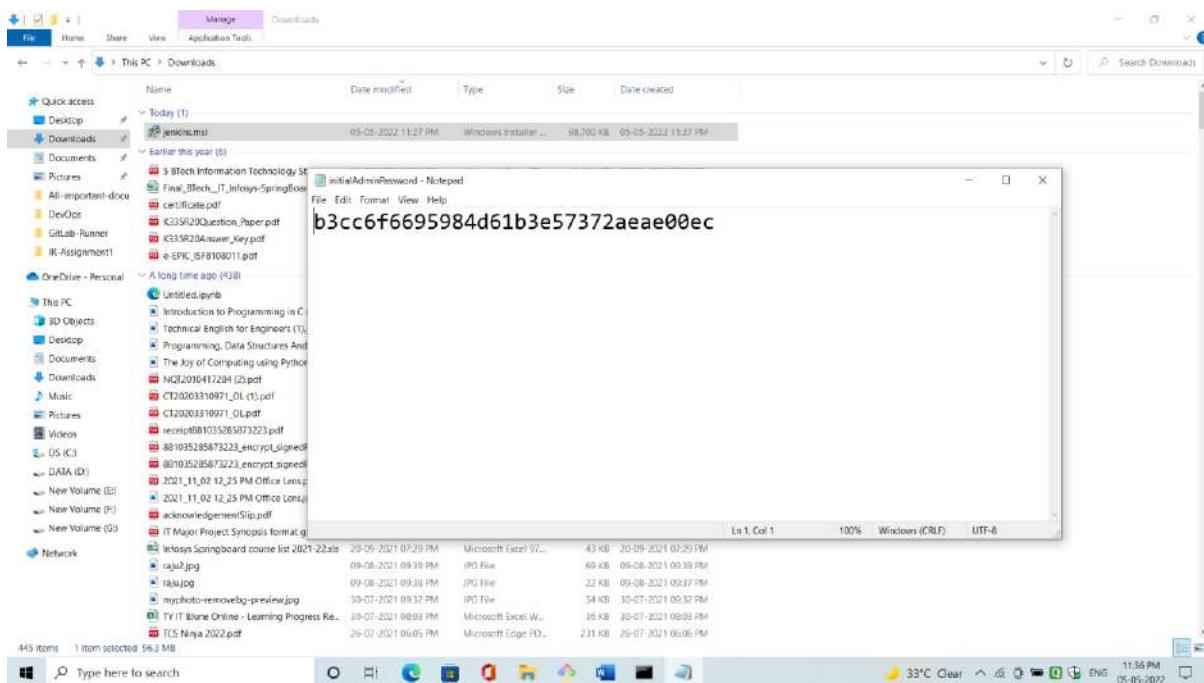
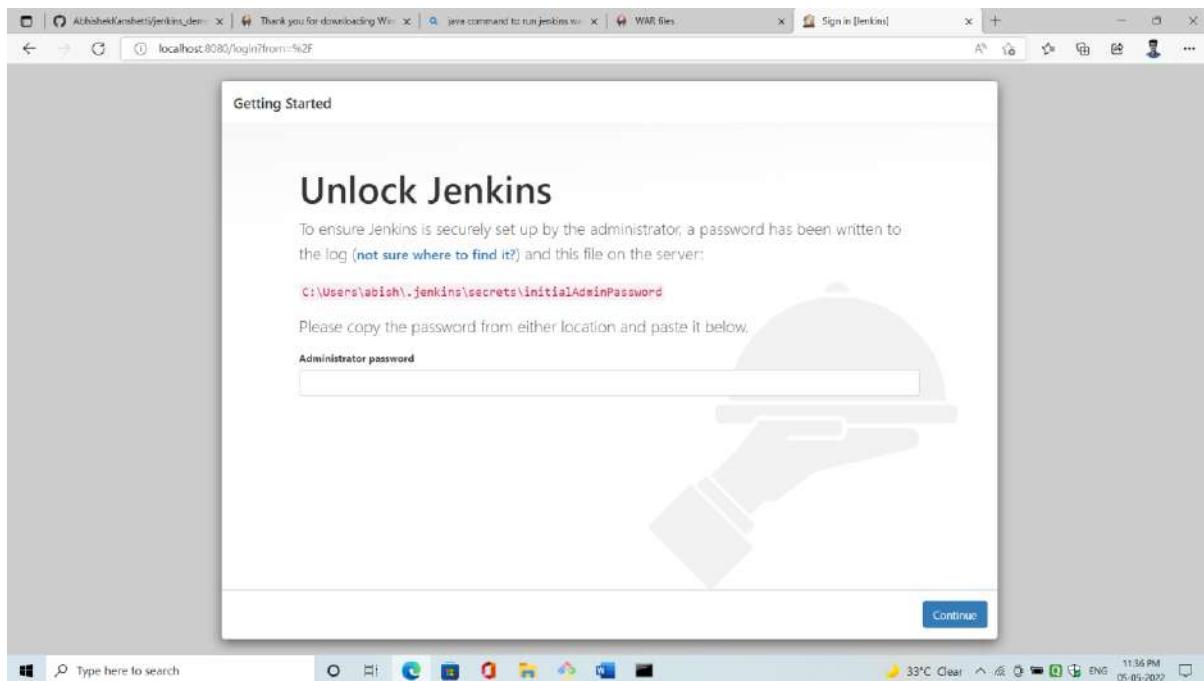
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ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

After that Jenkins will be running on localhost:8080: -



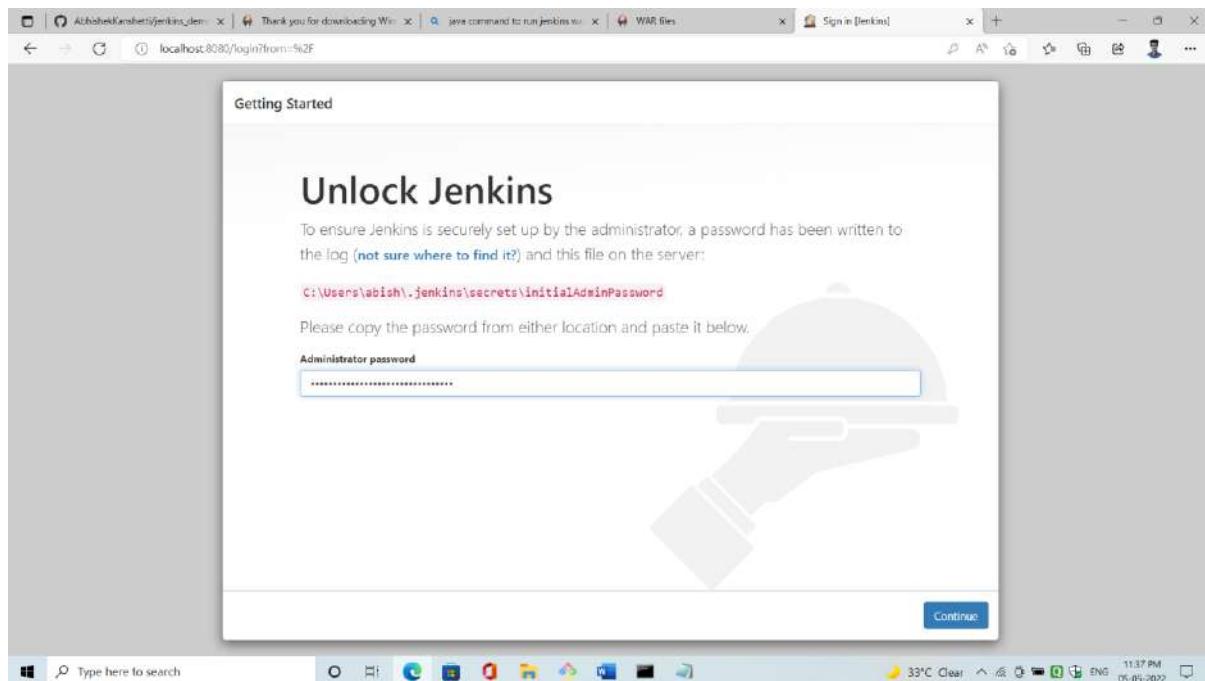
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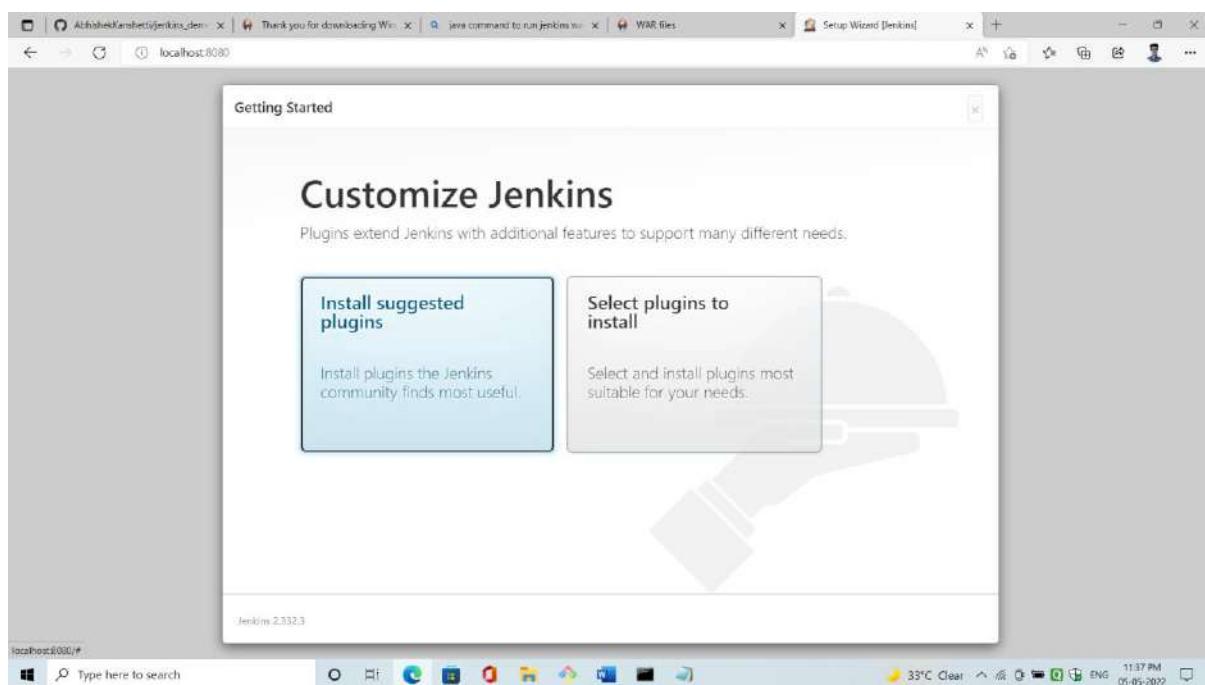
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Title: Create a Job in Jenkins



Select Install suggested plugins option: -



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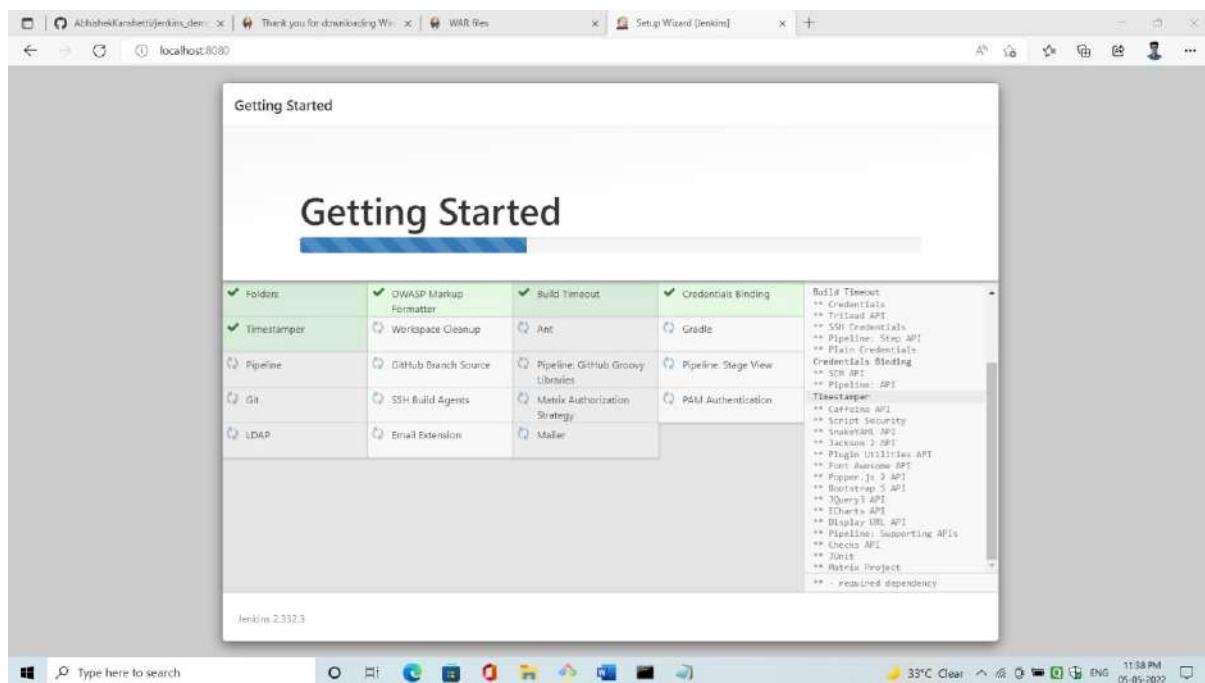
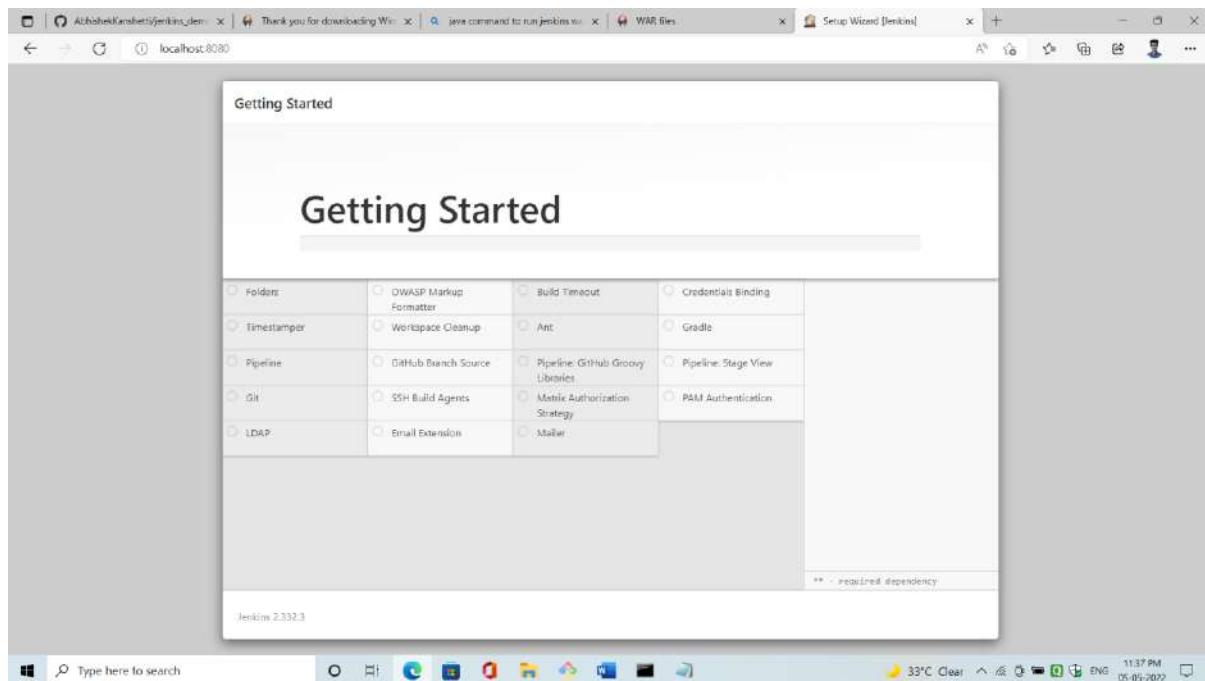
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Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Installing Jenkins as follow: -



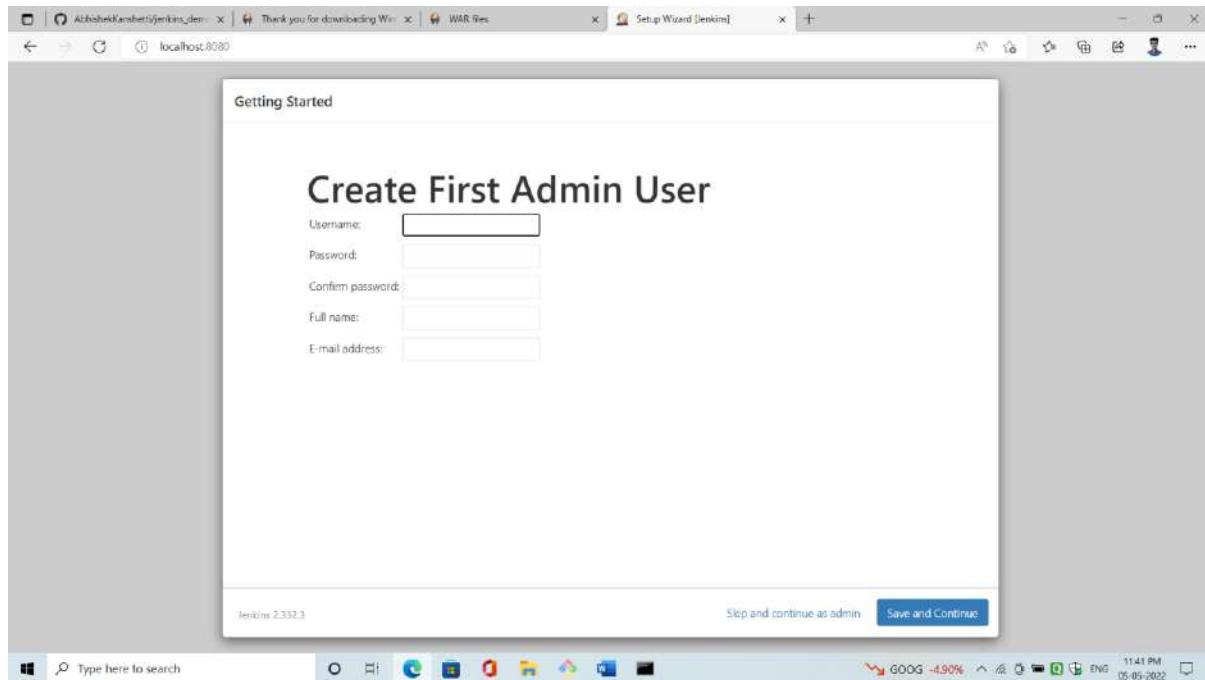
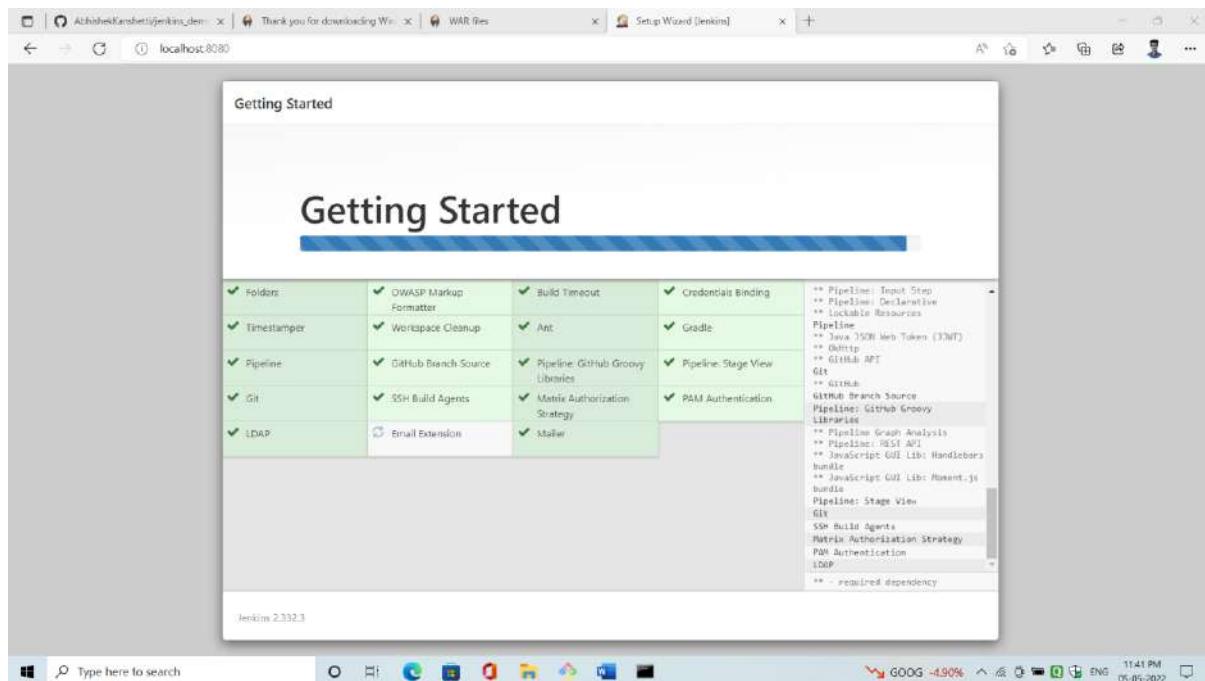
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Title: Create a Job in Jenkins



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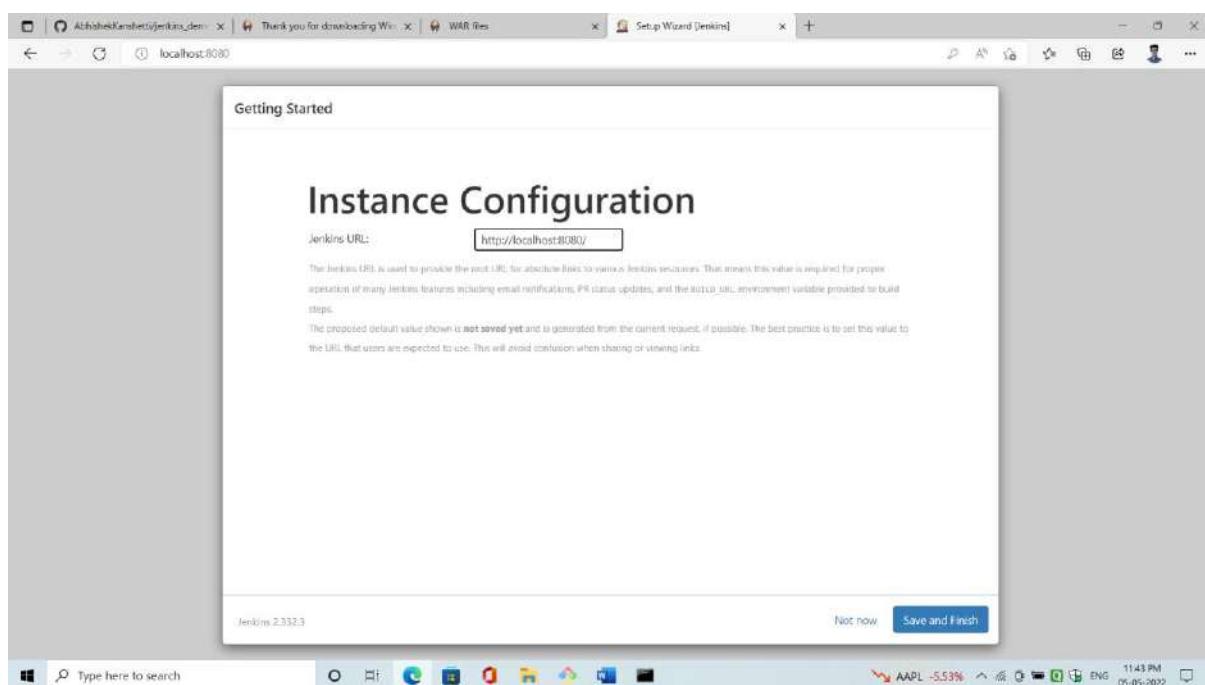
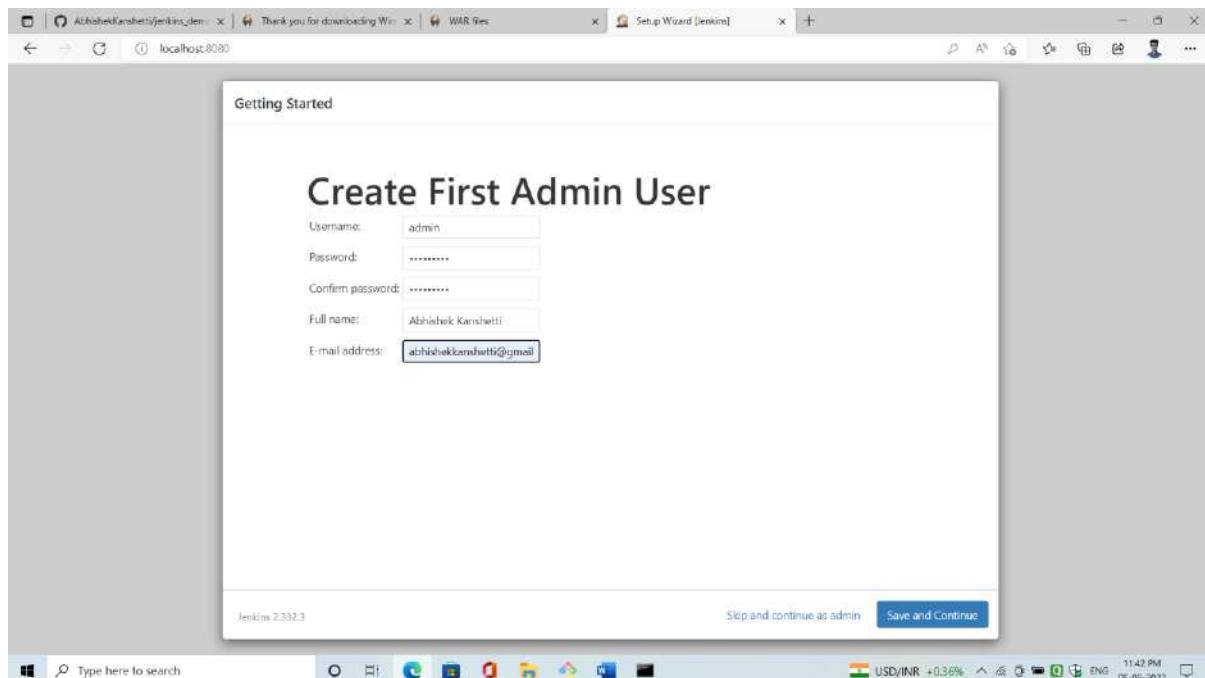
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ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Entered UserName, Password, Name and Email as follow: -



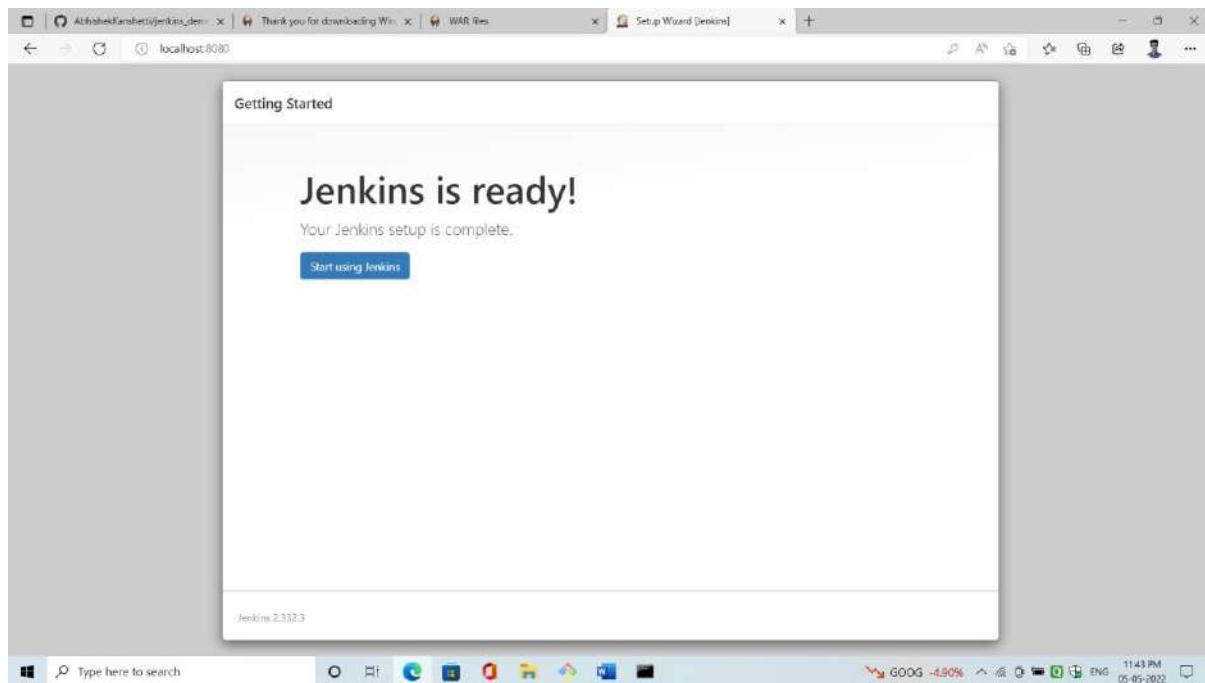
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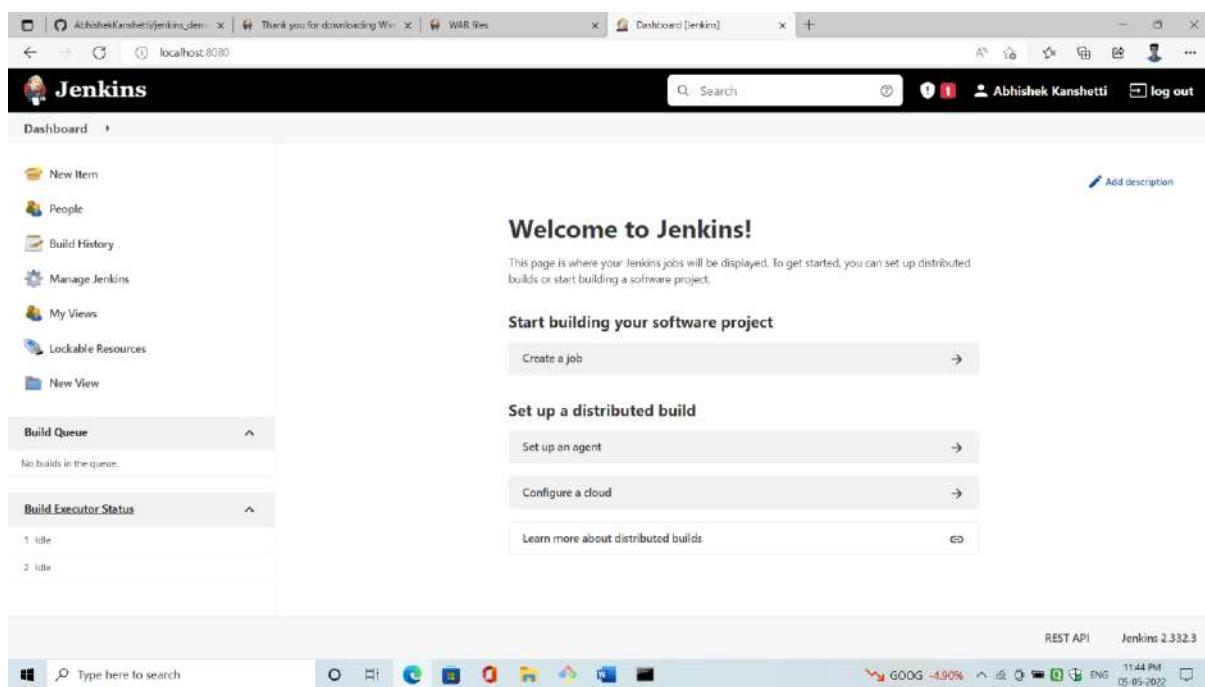
Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



Opened Jenkins Dashboard as follow: -



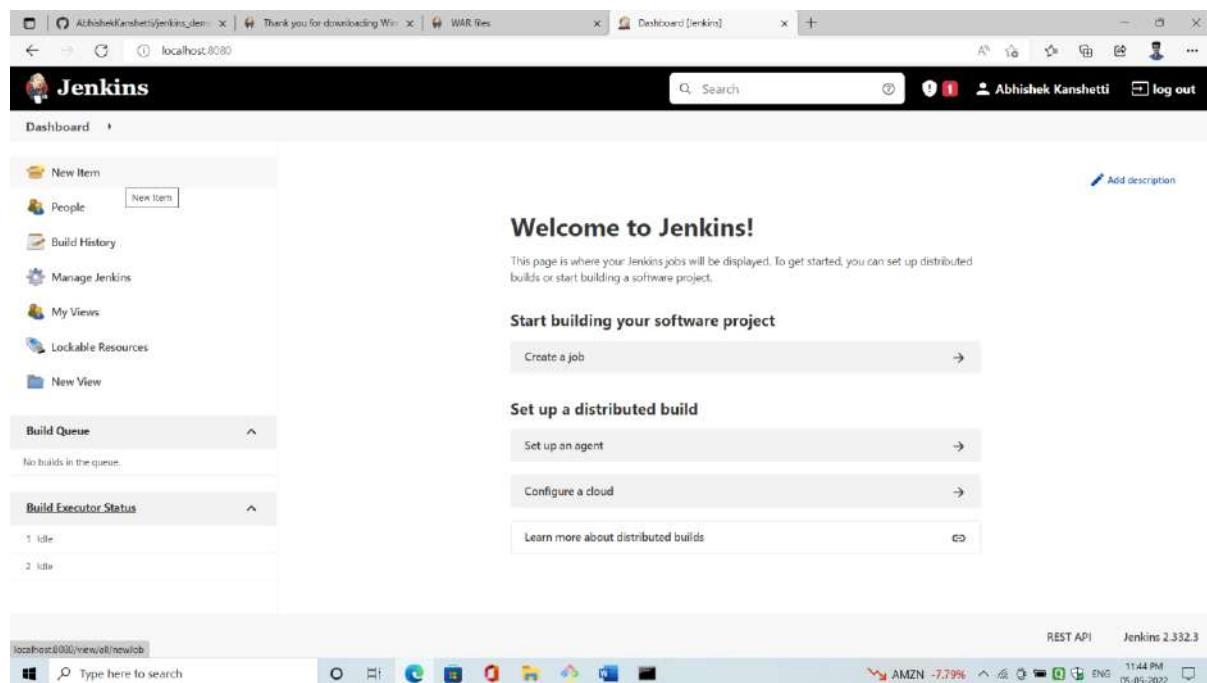
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Name: Abhishek Basavraj Kanshetti

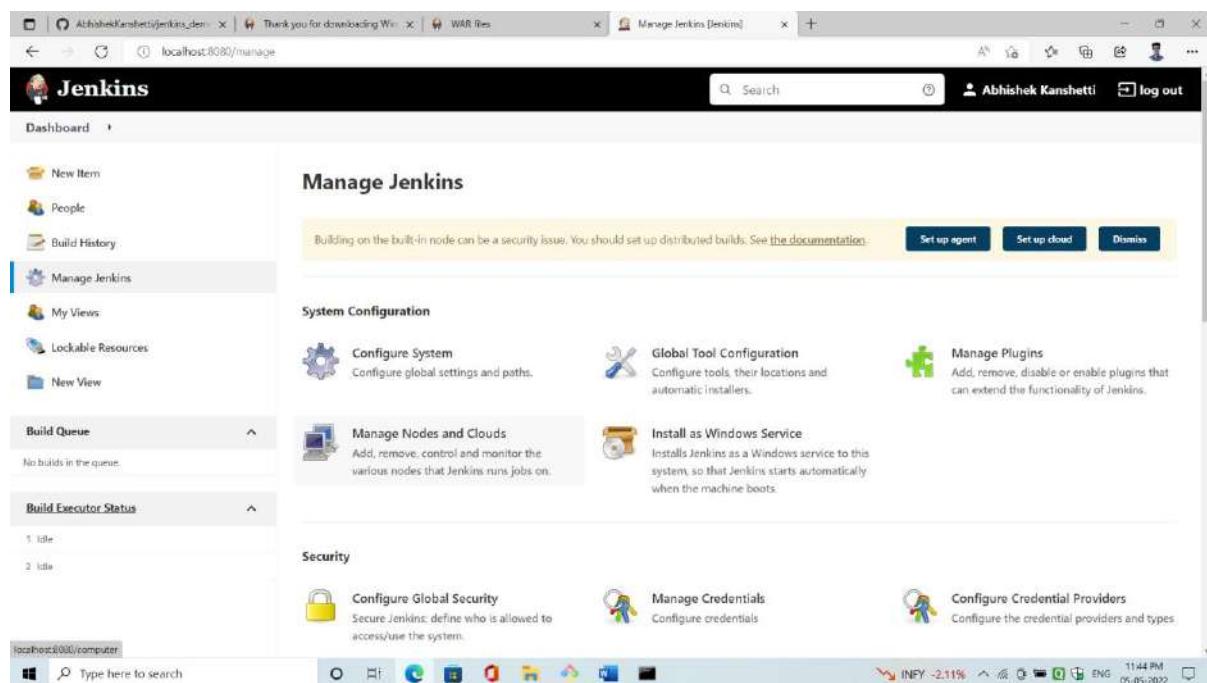
Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



The screenshot shows the Jenkins dashboard at [localhost:8080](http://AbhishekKanshetti/jenkins_demo). The main content area features a large "Welcome to Jenkins!" message. Below it, there are sections for "Start building your software project" (with a "Create a job" button) and "Set up a distributed build" (with "Set up an agent" and "Configure a cloud" buttons). On the left sidebar, there are links for "New Item", "People", "Build History", "Manage Jenkins", "My Views", "Lockable Resources", and "New View". Under "Build Queue", it says "No builds in the queue". Under "Build Executor Status", it shows 1 idle and 2 idle executors. The status bar at the bottom indicates "REST API Jenkins 2.33.3" and the system date "05-05-2022".



The screenshot shows the "Manage Jenkins" page at [localhost:8080/manage](http://AbhishekKanshetti/jenkins_demo/manage). The main content area is titled "Manage Jenkins" and includes a note about security. It features several configuration sections: "System Configuration" (with "Configure System", "Global Tool Configuration", and "Manage Plugins" buttons), "Security" (with "Configure Global Security", "Manage Credentials", and "Configure Credential Providers" buttons), and "Manage Nodes and Clouds" (with "Install as Windows Service" and "Manage Nodes and Clouds" buttons). On the left sidebar, there are links for "New Item", "People", "Build History", "Manage Jenkins" (which is selected), "My Views", "Lockable Resources", and "New View". Under "Build Queue" and "Build Executor Status", it shows 1 idle and 2 idle executors. The status bar at the bottom indicates "REST API Jenkins 2.33.3" and the system date "05-05-2022".

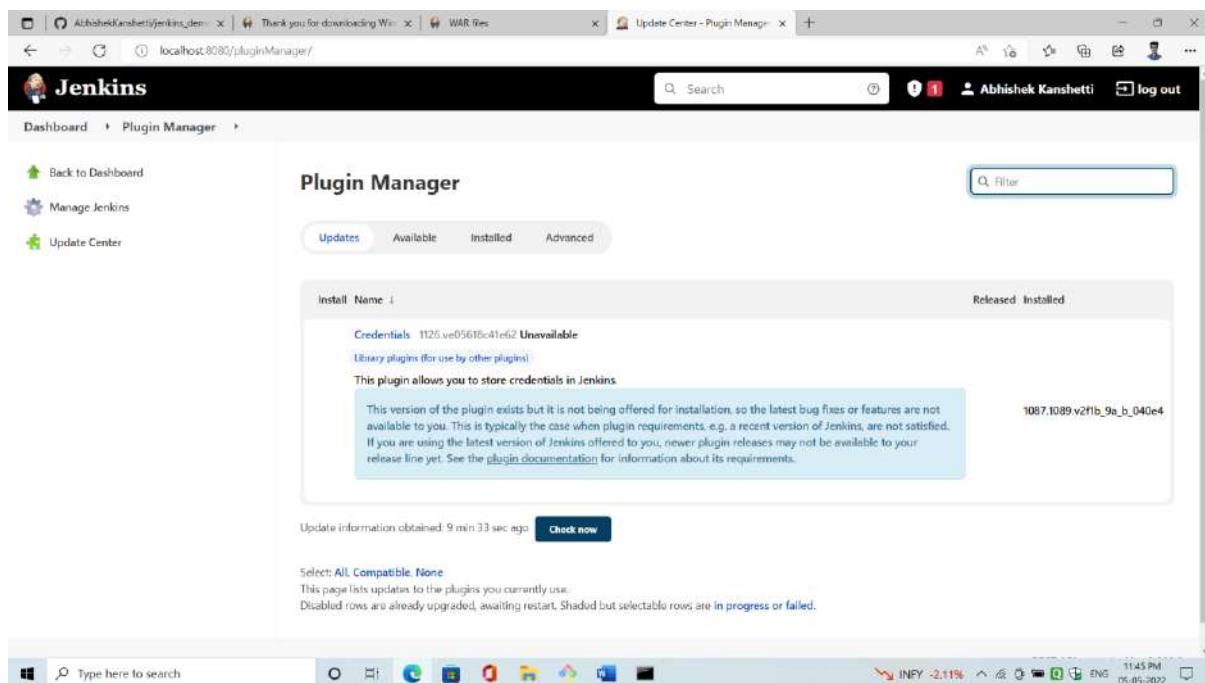
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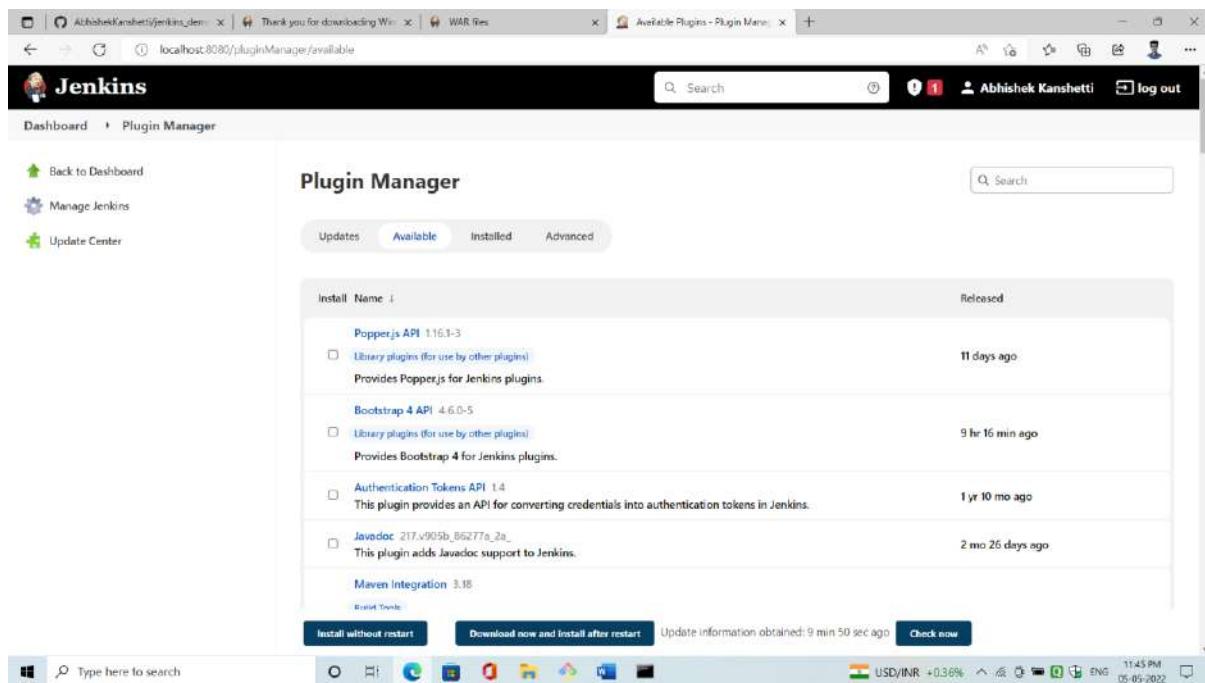
Title: Create a Job in Jenkins



The screenshot shows the Jenkins Plugin Manager interface. The title bar says "AbhishekKanshetti/jenkins_demo > Thank you for downloading Win..." and the address bar shows "localhost:8080/pluginManager/". The main title is "Plugin Manager". Below it, there are tabs: "Updates", "Available" (which is selected), "Installed", and "Advanced". A search bar and a filter button are also present. The main content area displays a table for available plugins:

Released	Installed
1087.1089.v2fb_9a_b_040e4	Credentials 1126.ve0561bc41ef62 Unavailable Library plugins (for use by other plugins) This plugin allows you to store credentials in Jenkins. This version of the plugin exists but it is not being offered for installation, so the latest bug fixes or features are not available to you. This is typically the case when plugin requirements, e.g. a recent version of Jenkins, are not satisfied. If you are using the latest version of Jenkins offered to you, newer plugin releases may not be available to your release line yet. See the plugin documentation for information about its requirements.

At the bottom, there is a "Check now" button and a note: "Select: All. Compatible. None. This page lists updates to the plugins you currently use. Disabled rows are already upgraded, awaiting restart. Shaded but selectable rows are in progress or failed."



The screenshot shows the Jenkins Available Plugins page. The title bar says "AbhishekKanshetti/jenkins_demo > Thank you for downloading Win..." and the address bar shows "localhost:8080/pluginManager/available". The main title is "Plugin Manager". Below it, there are tabs: "Updates", "Available" (selected), "Installed", and "Advanced". A search bar and a filter button are also present. The main content area displays a table for available plugins:

Released
Popper.js API 1.16.1-3 Provides Popper.js for Jenkins plugins. 11 days ago
Bootstrap 4 API 4.6.0-5 Provides Bootstrap 4 for Jenkins plugins. 9 hr 16 min ago
Authentication Tokens API 1.4 This plugin provides an API for converting credentials into authentication tokens in Jenkins. 1 yr 10 mo ago
Javadoc 217.v909b_86277a_2a_... This plugin adds Javadoc support to Jenkins. 2 mo 26 days ago
Maven Integration 3.18 Build Maven projects. Earlier Version

At the bottom, there are buttons for "Install without restart" and "Download now and install after restart", and a note: "Update information obtained: 9 min 50 sec ago".

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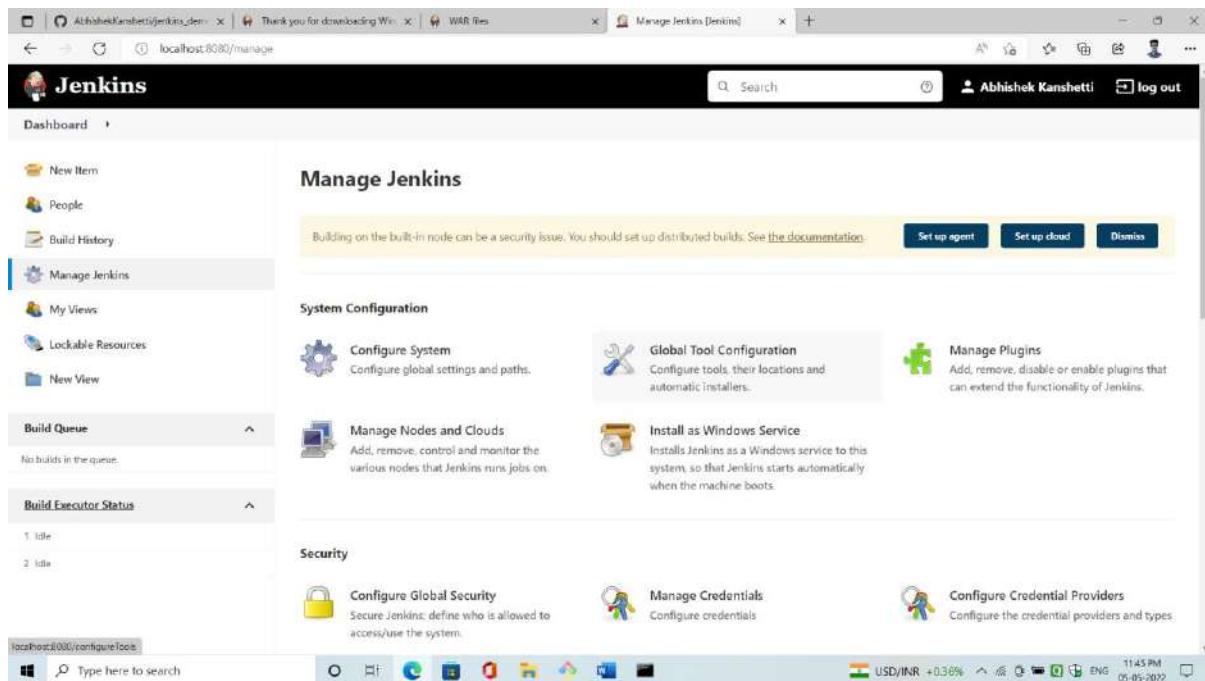
Name: Abhishek Basavraj Kanshetti

Roll No: 22

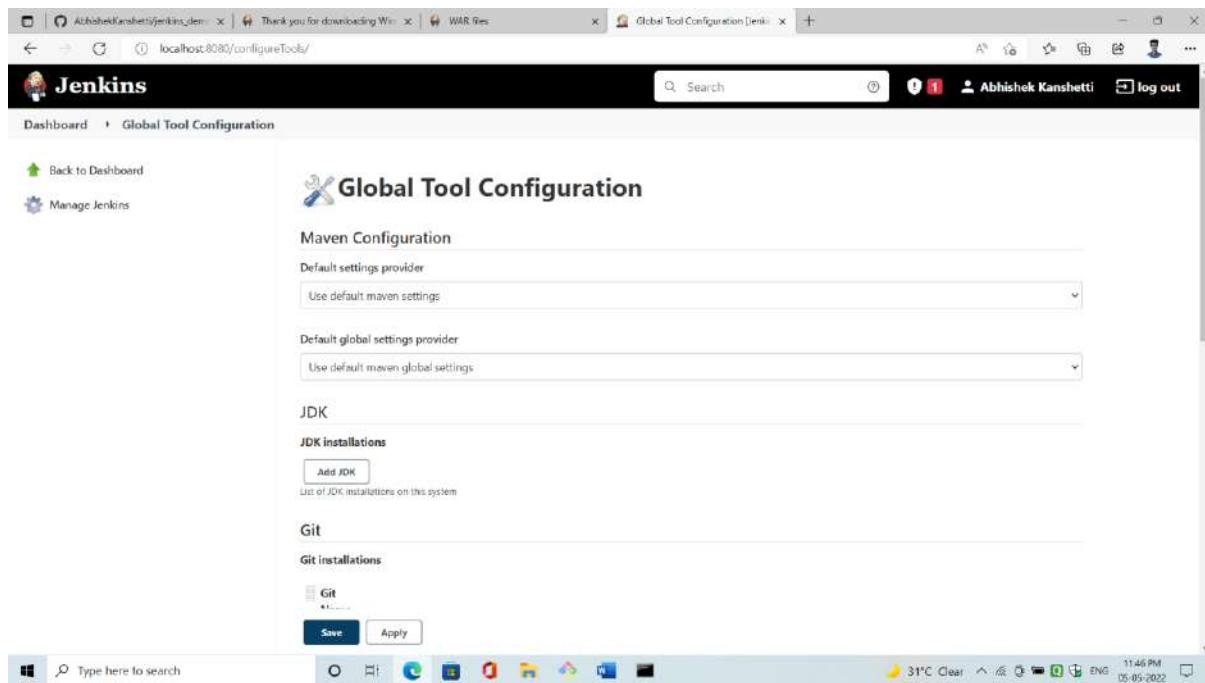
ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Selected Global Tool Configuration Option: -



The screenshot shows the Jenkins Manage Jenkins interface. On the left sidebar, under 'Manage Jenkins', the 'Global Tool Configuration' option is highlighted. The main content area is titled 'System Configuration' and contains several configuration links: 'Configure System', 'Global Tool Configuration' (which is currently selected), 'Manage Plugins', 'Install as Windows Service', 'Configure Global Security', 'Manage Credentials', and 'Configure Credential Providers'. The status bar at the bottom indicates the URL as localhost:8080/configureTools.



The screenshot shows the Jenkins Global Tool Configuration page. It includes sections for 'Maven Configuration', 'JDK', and 'Git'. In the Maven Configuration section, there are dropdown menus for 'Default settings provider' (set to 'Use default maven settings') and 'Default global settings provider' (set to 'Use default maven global settings'). In the JDK section, there is a 'JDK installations' table with one entry ('List of JDK installations on this system'). In the Git section, there is a 'Git installations' table with one entry ('Git'). At the bottom, there are 'Save' and 'Apply' buttons. The status bar at the bottom indicates the URL as localhost:8080/configureTools.

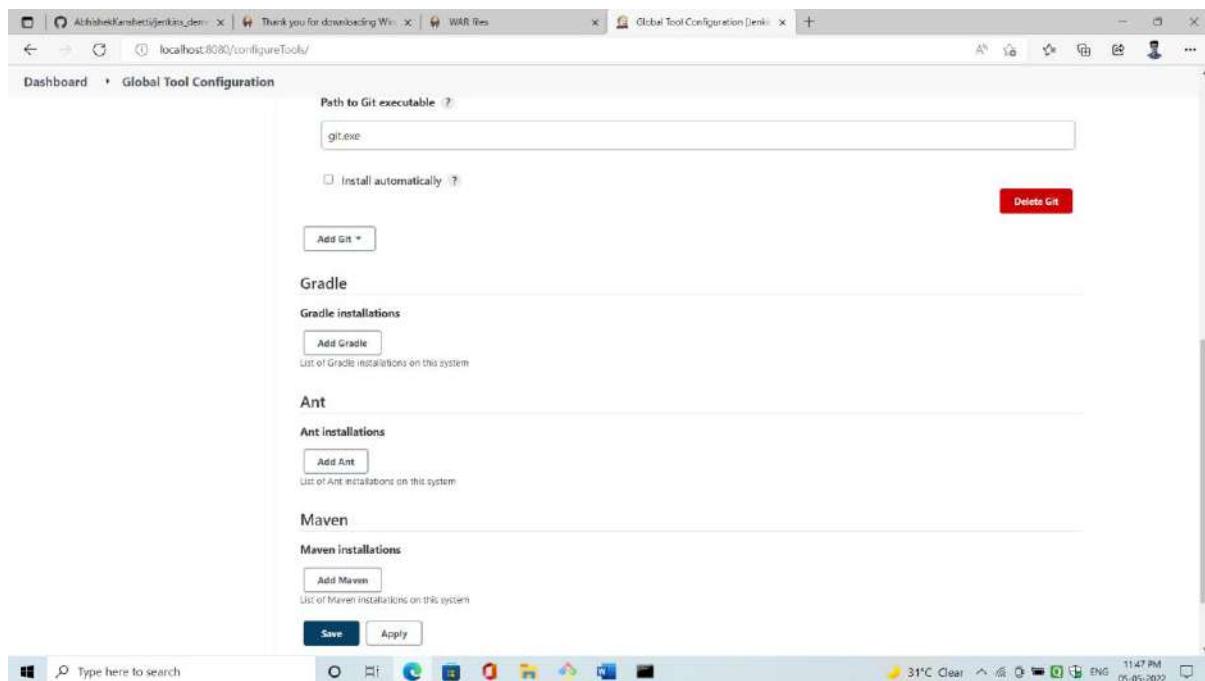
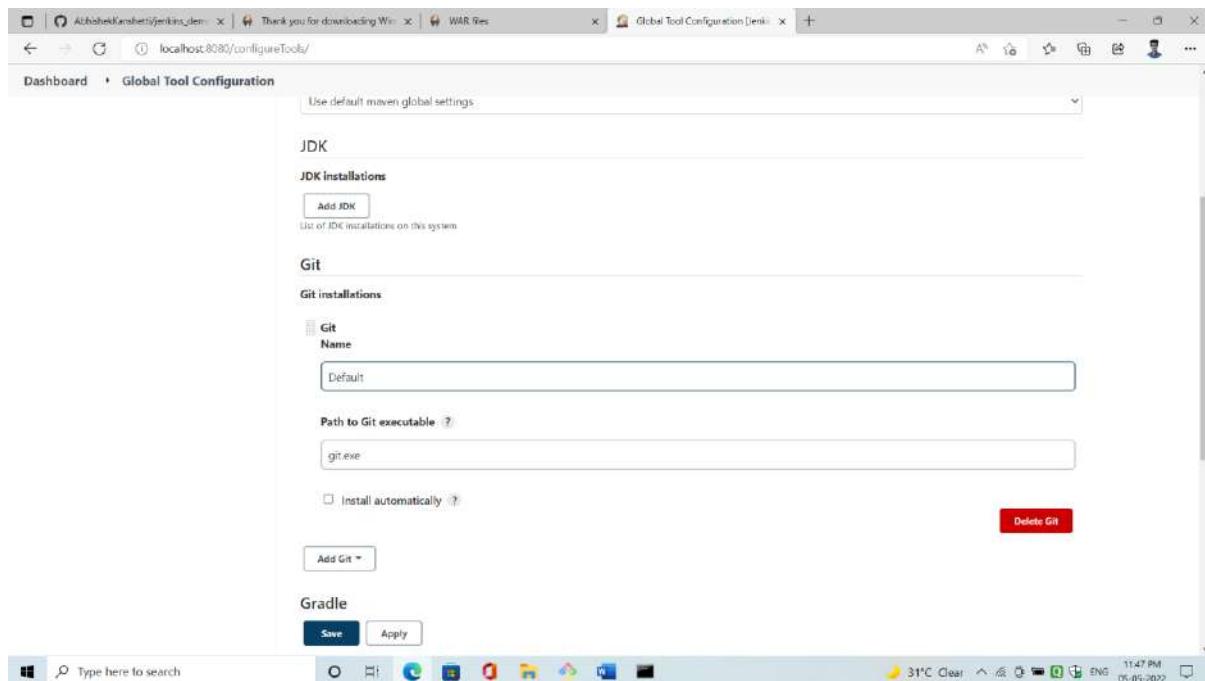
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Title: Create a Job in Jenkins



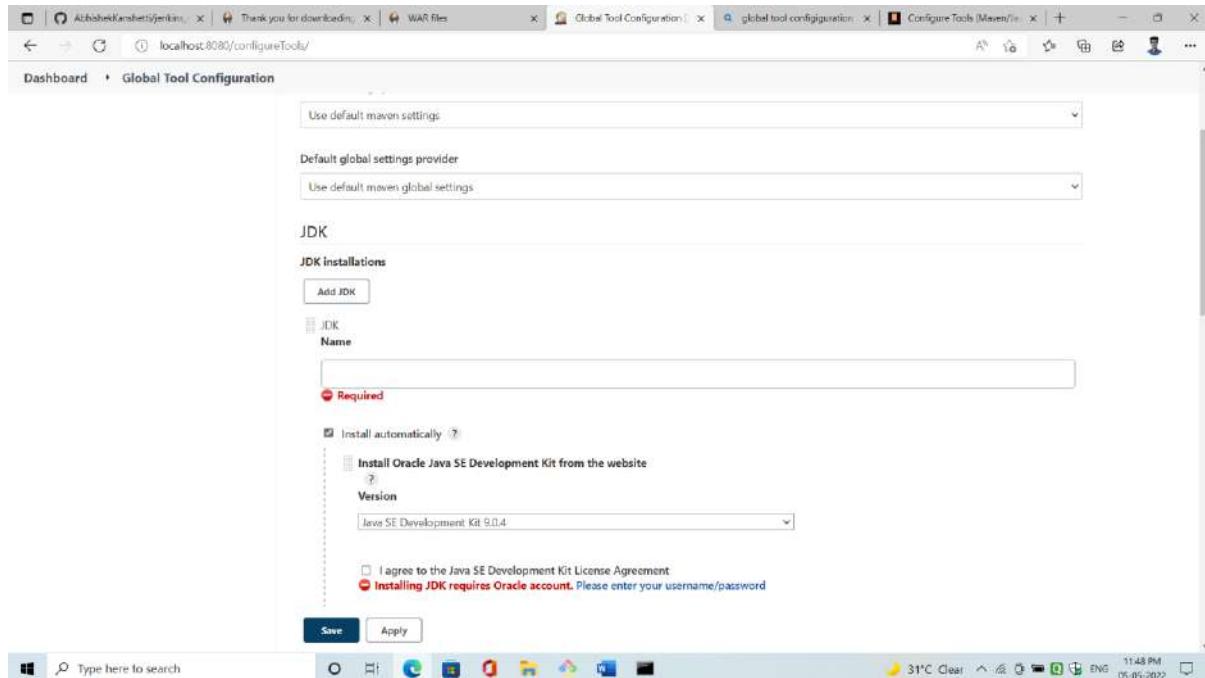
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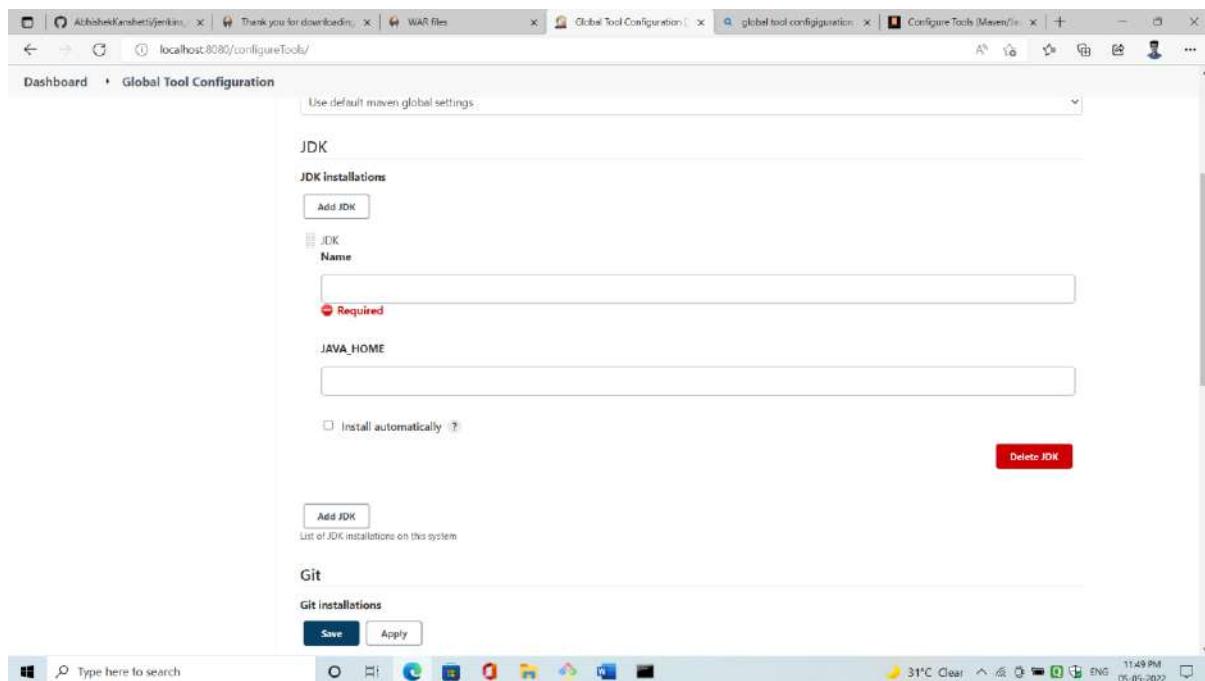
Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



The screenshot shows the Jenkins Global Tool Configuration interface. In the 'JDK' section, there is a 'JDK installations' panel with a 'Name' field containing 'Required'. Below it, an 'Install automatically' checkbox is checked, and a dropdown menu shows 'Install Oracle Java SE Development Kit from the website' with 'Version' set to 'Java SE Development Kit 9.0.4'. A note at the bottom states 'I agree to the Java SE Development Kit License Agreement' and 'Installing JDK requires Oracle account. Please enter your username/password'. At the bottom of the panel are 'Save' and 'Apply' buttons.



This screenshot continues from the previous one, showing the Jenkins Global Tool Configuration page. It includes the same 'JDK' section with the 'Required' entry and automatic install settings. Below the JDK section, there is a 'JAVA_HOME' field with an empty input field. Underneath this is an 'Install automatically' checkbox. To the right of the 'JAVA_HOME' field is a red 'Delete JDK' button. At the bottom of the page, under the 'Git' section, there is a 'Git installations' panel with 'Save' and 'Apply' buttons. The status bar at the bottom of the screen shows the date and time as '05-09-2022 11:49 PM'.

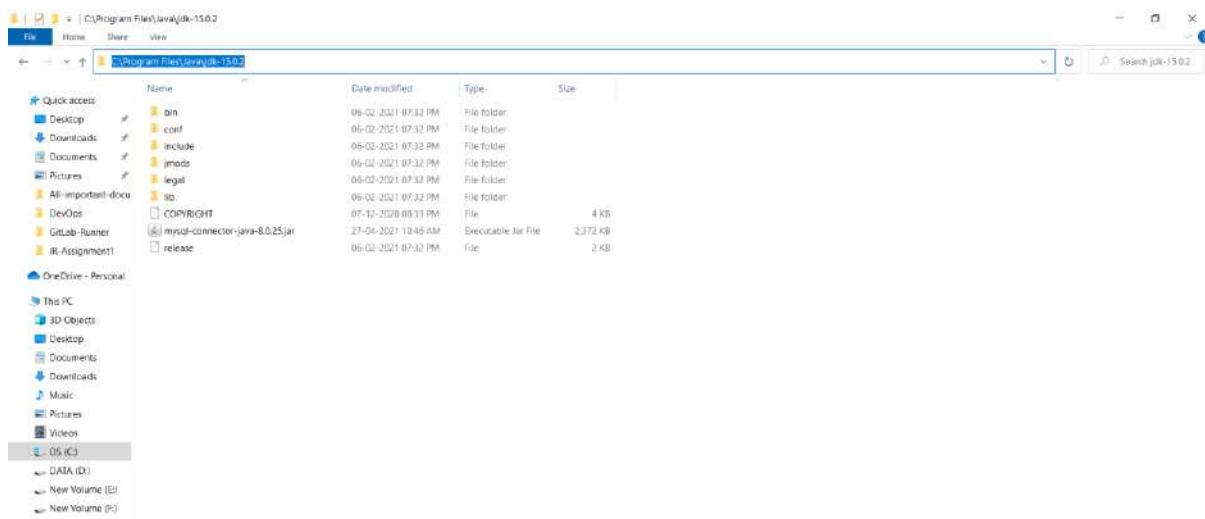
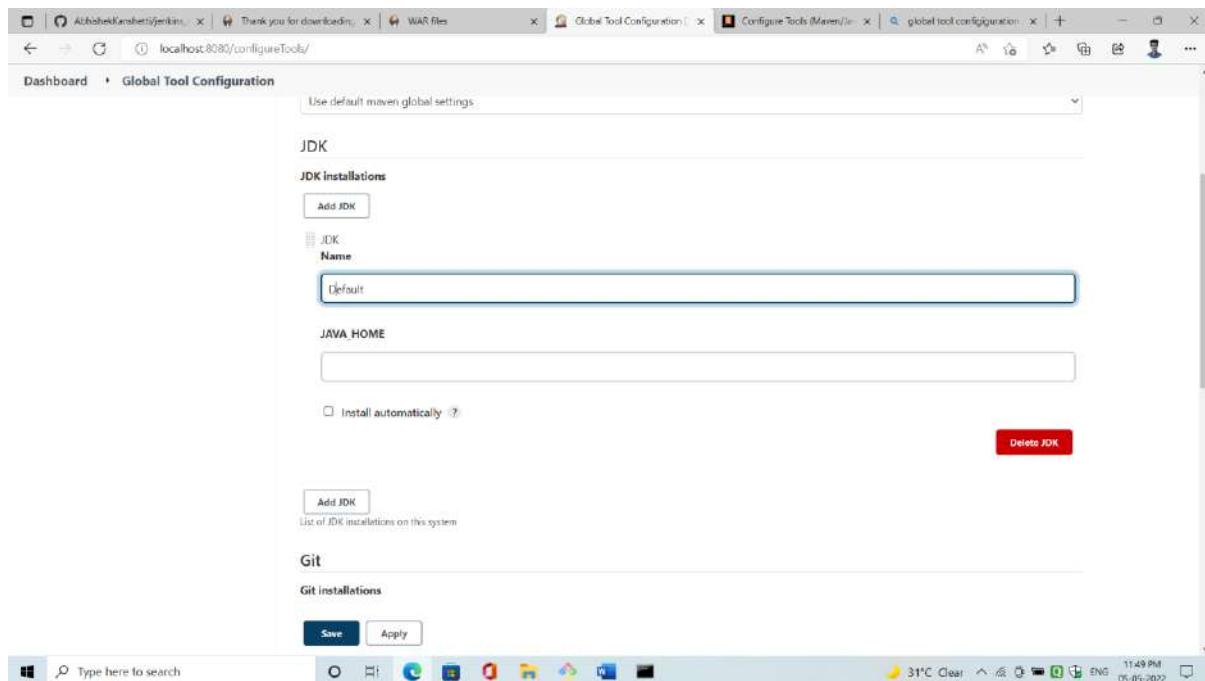
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Roll No: 22

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Title: Create a Job in Jenkins



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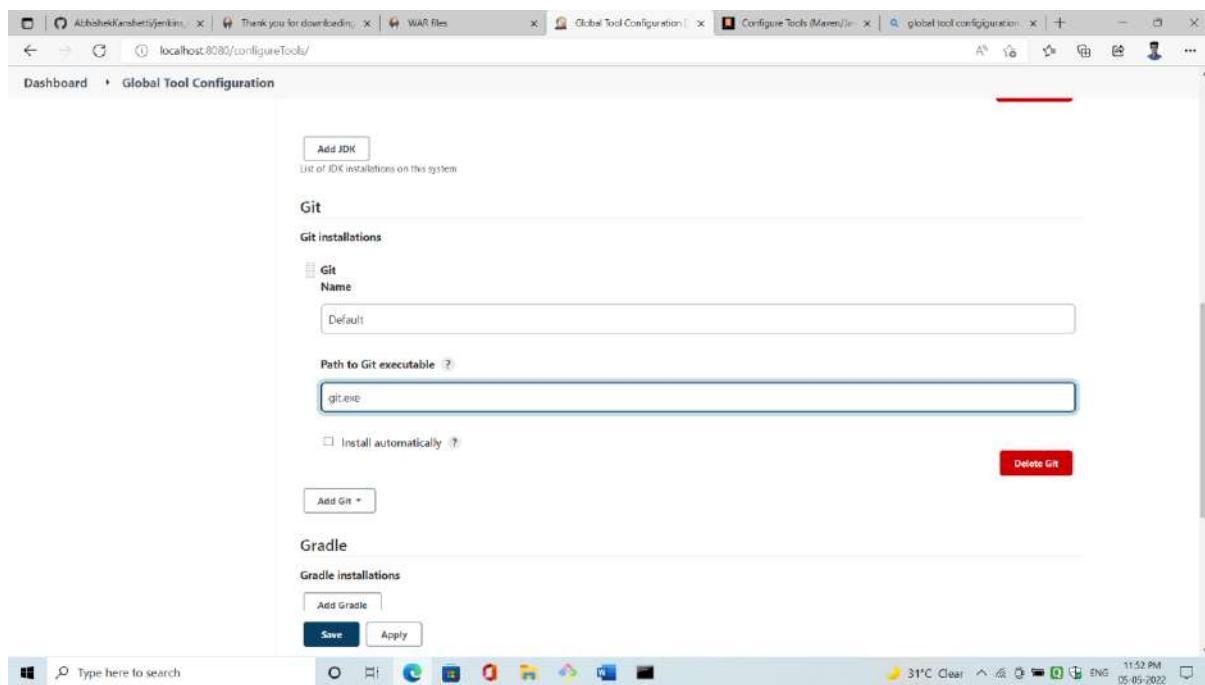
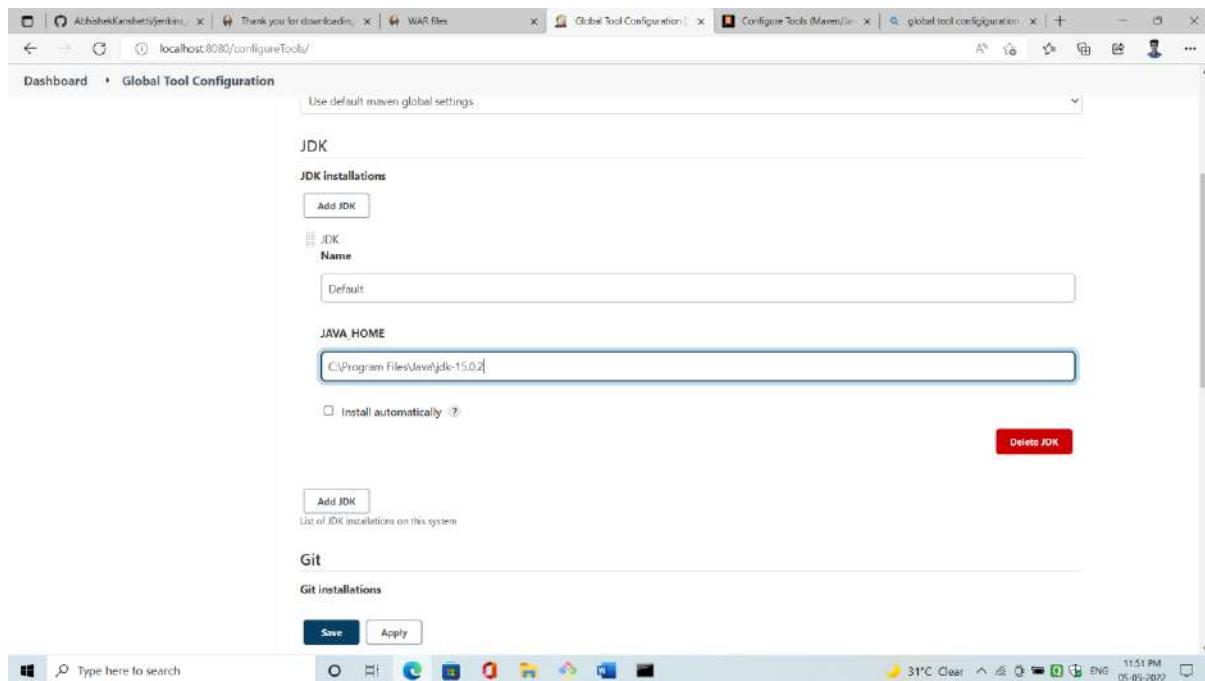
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ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Added JDK Name and JAVA HOME as follow: -



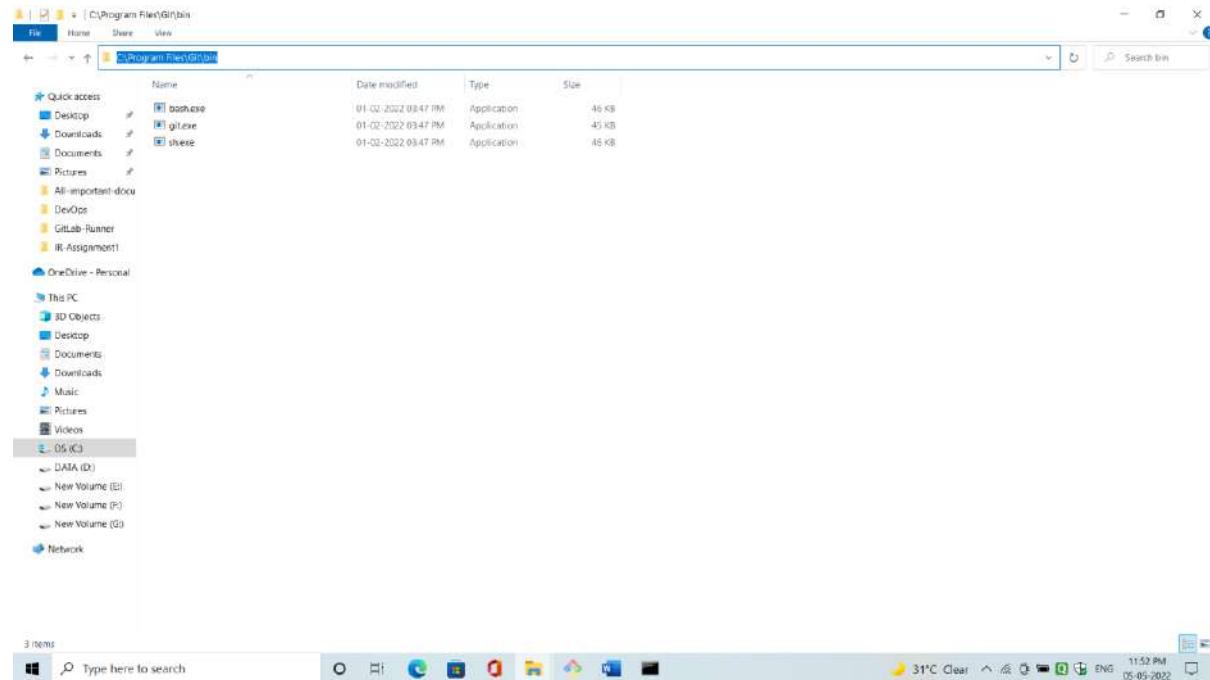
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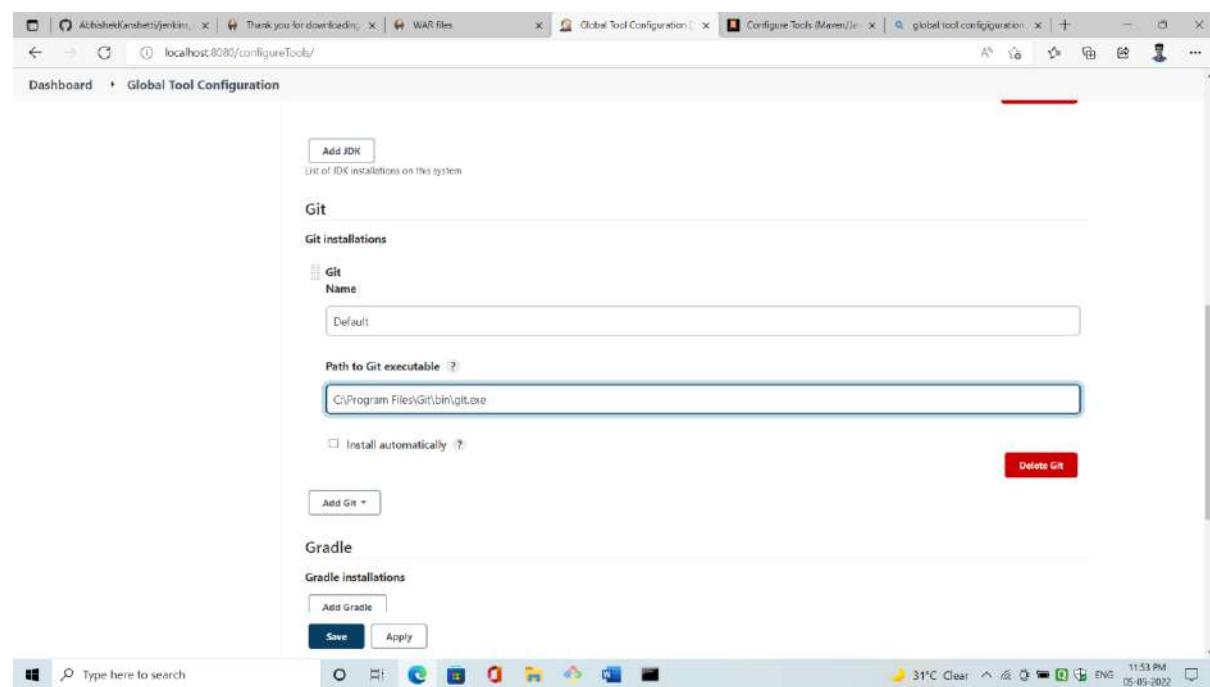
Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



Added Git Name and Path for Git Executable: -



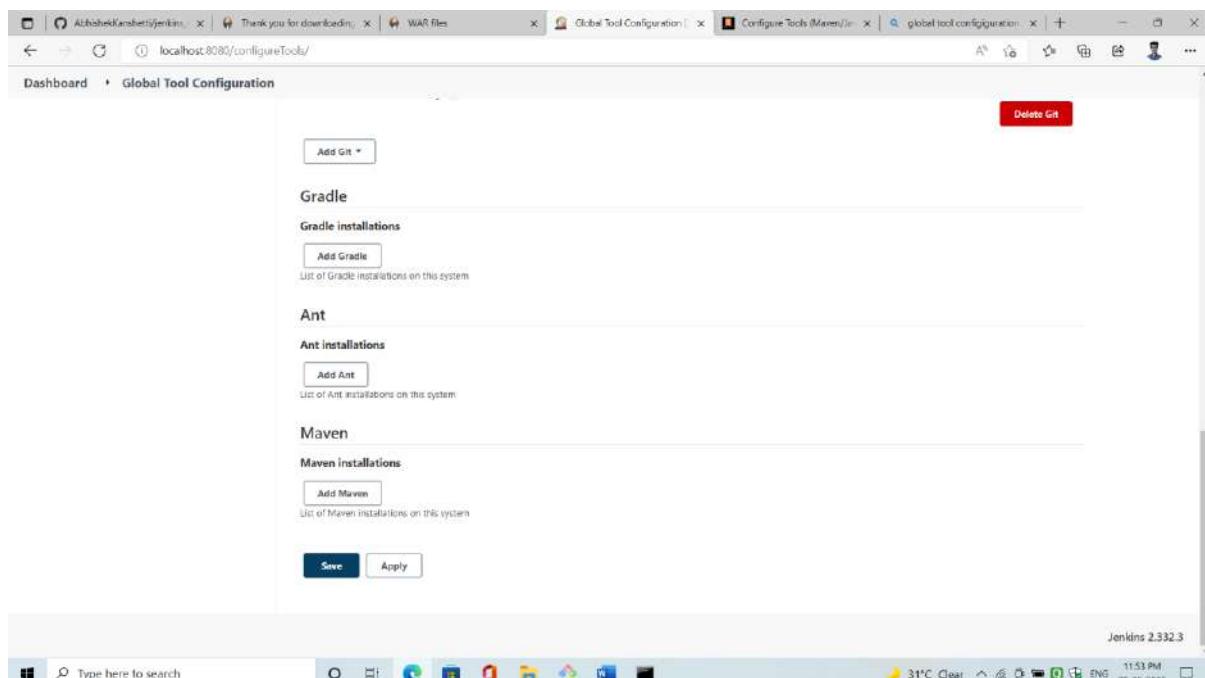
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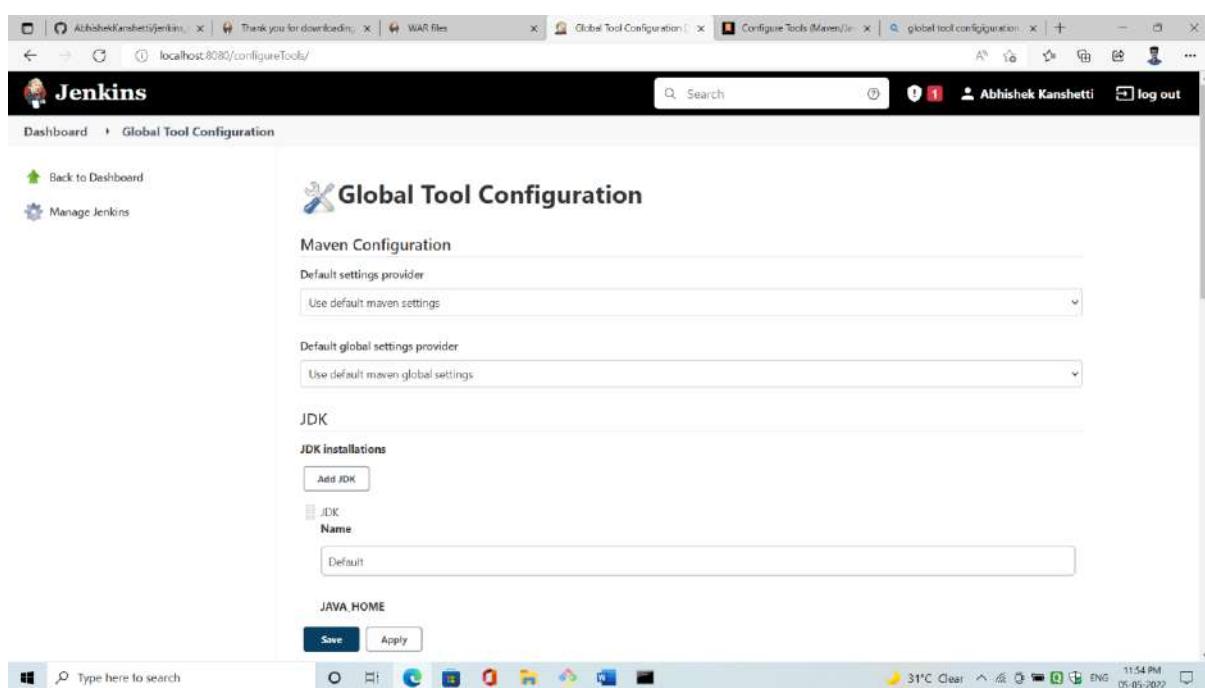
Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



After saving and Applying JDK and Git Setting: -



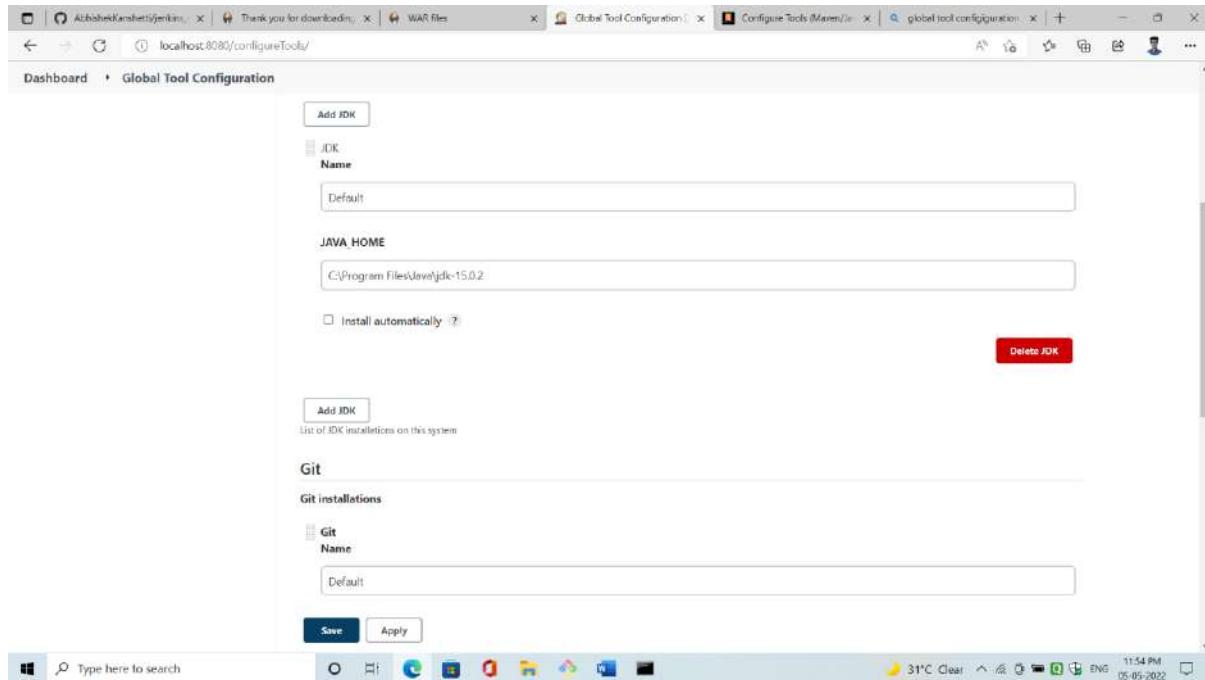
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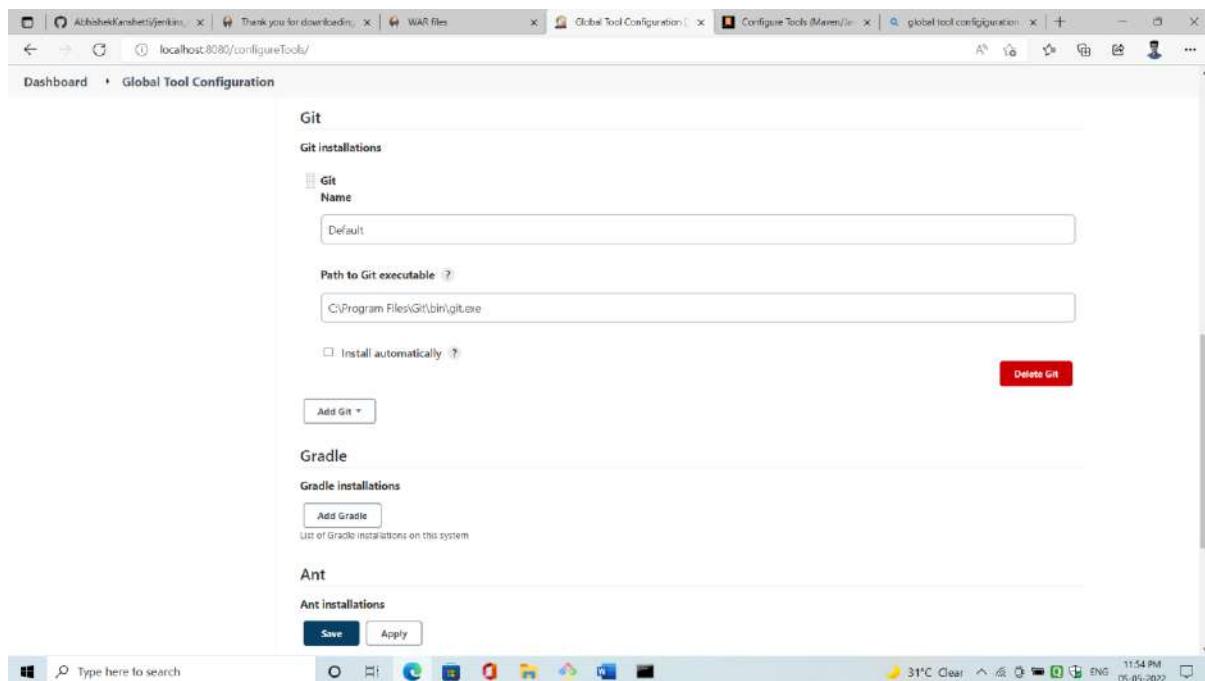
Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



The screenshot shows the Jenkins Global Tool Configuration interface. Under the 'JDK' section, a new configuration is being created with the name 'Default'. The 'JAVA HOME' field is set to 'C:\Program Files\Java\jdk-15.0.2'. A checkbox for 'Install automatically' is unchecked. Below this, there is a list of existing JDK installations. The 'Git' section is also visible, showing a single 'Default' configuration. At the bottom are 'Save' and 'Apply' buttons.



The screenshot shows the Jenkins Global Tool Configuration interface. Under the 'Git' section, a new configuration is being created with the name 'Default'. The 'Path to Git executable' field is set to 'C:\Program Files\Git\bin\git.exe'. A checkbox for 'Install automatically' is unchecked. Below this, there is a list of existing Git installations. Other sections like 'Gradle' and 'Ant' are partially visible at the bottom.

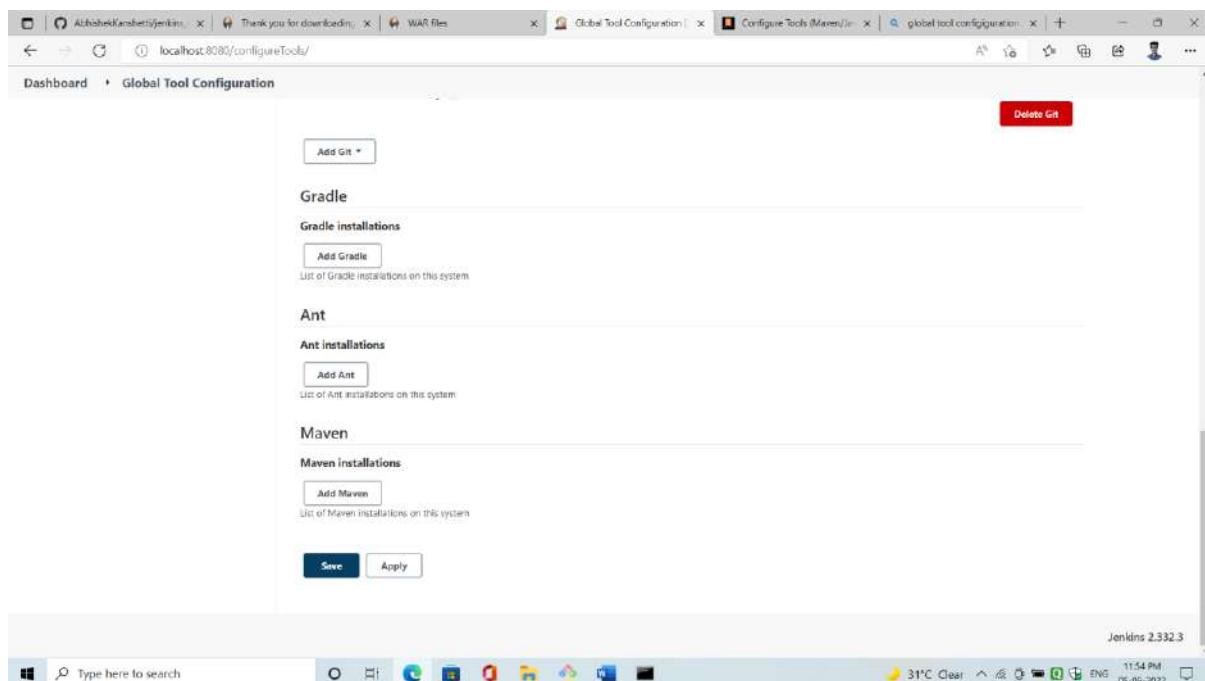
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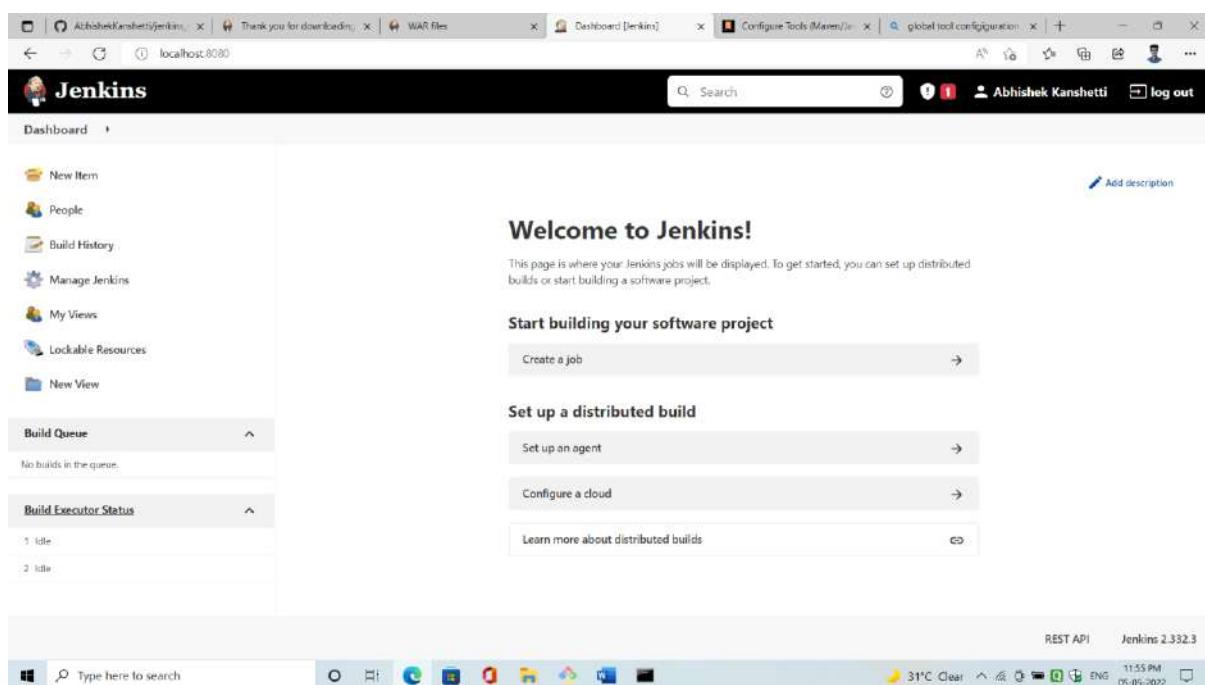
Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



The screenshot shows the Jenkins Global Tool Configuration page. At the top, there are tabs for 'Dashboard' and 'Global Tool Configuration'. Below the tabs, there are sections for Gradle, Ant, and Maven, each with an 'Add [Tool]' button and a link to 'List of [Tool] installations on this system'. At the bottom of the page are 'Save' and 'Apply' buttons.



The screenshot shows the Jenkins Dashboard page. The left sidebar includes links for 'New Item', 'People', 'Build History', 'Manage Jenkins', 'My Views', 'Lockable Resources', and 'New View'. The main area features a 'Welcome to Jenkins!' message, a 'Start building your software project' section with a 'Create a job' button, and a 'Set up a distributed build' section with 'Set up an agent' and 'Configure a cloud' buttons. The status bar at the bottom indicates 'Jenkins 2.332.3'.

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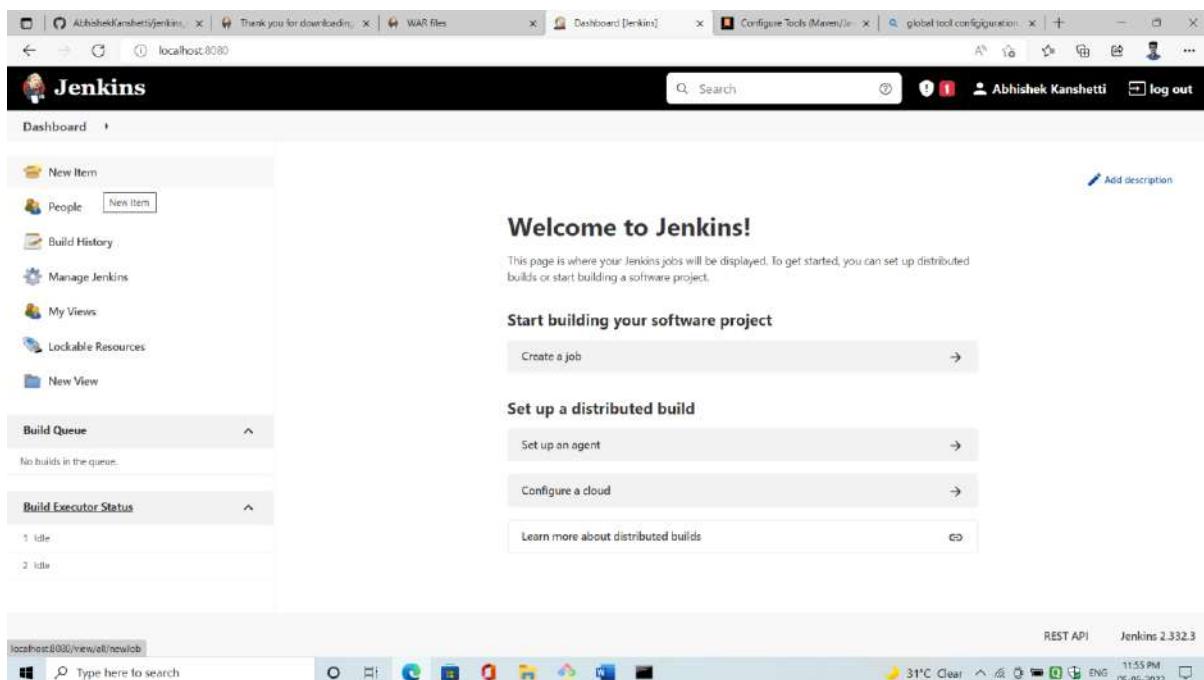
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Roll No: 22

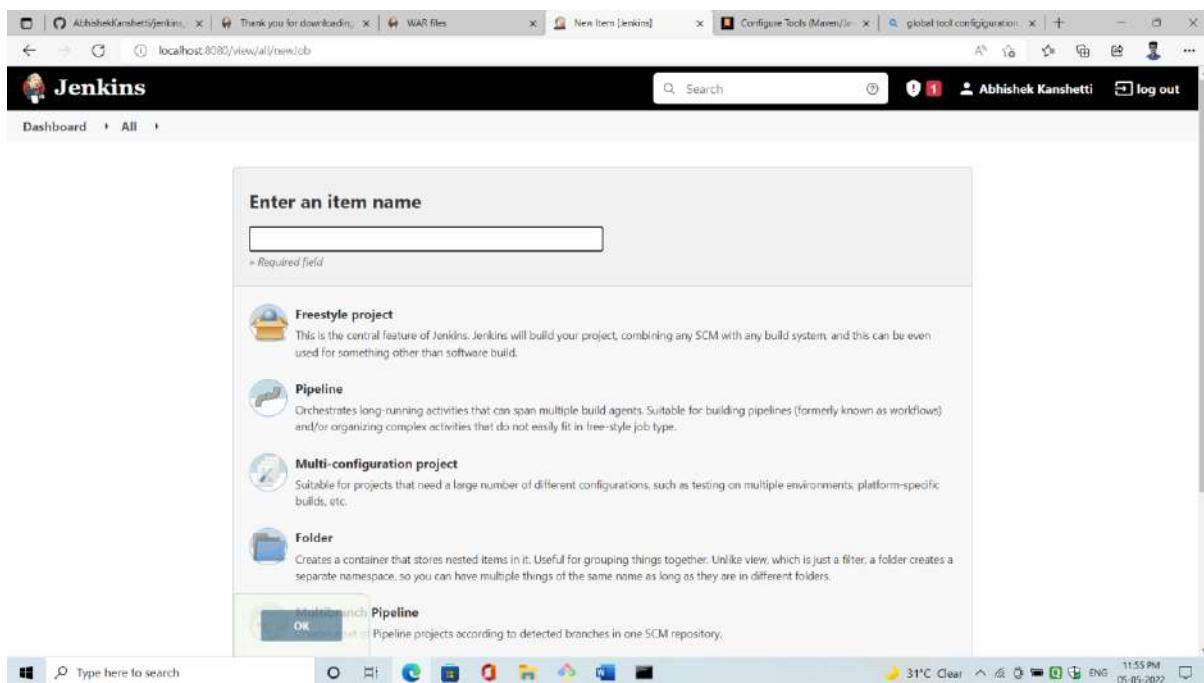
ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Creating the New Job as follow: -



The screenshot shows the Jenkins dashboard at localhost:8080. On the left sidebar, there's a 'New Item' button under the 'Dashboard' section. The main content area features a 'Welcome to Jenkins!' message and a 'Start building your software project' button. Below it, there's a 'Set up a distributed build' section with 'Set up an agent' and 'Configure a cloud' buttons, along with a 'Learn more about distributed builds' link. The status bar at the bottom indicates the URL is localhost:8080/view/all/newjob, the Jenkins version is 2.332.3, and the system date is 05-09-2022.



The screenshot shows the 'Enter an item name' dialog box. It has a required field for the item name. Below the input field, there are four project types listed: 'Freestyle project', 'Pipeline', 'Multi-configuration project', and 'Folder'. The 'Pipeline' option is highlighted with a blue border. At the bottom of the dialog, there is an 'OK' button. The status bar at the bottom indicates the URL is localhost:8080/view/all/newjob, the Jenkins version is 2.332.3, and the system date is 05-09-2022.

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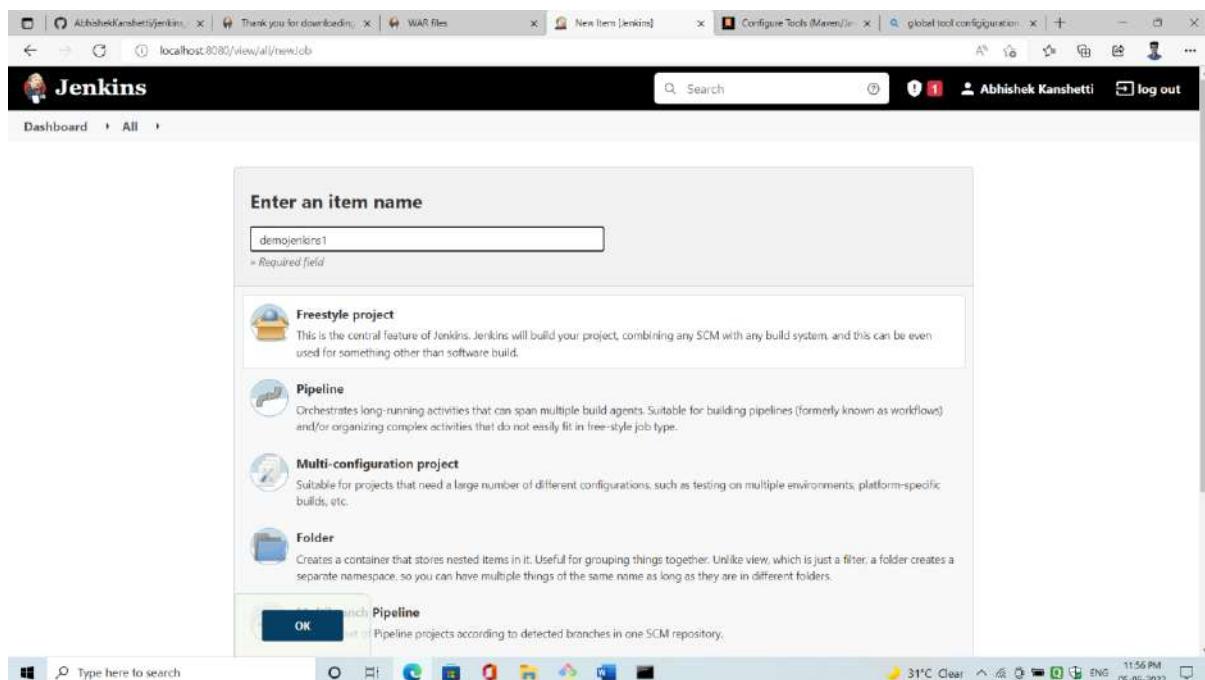
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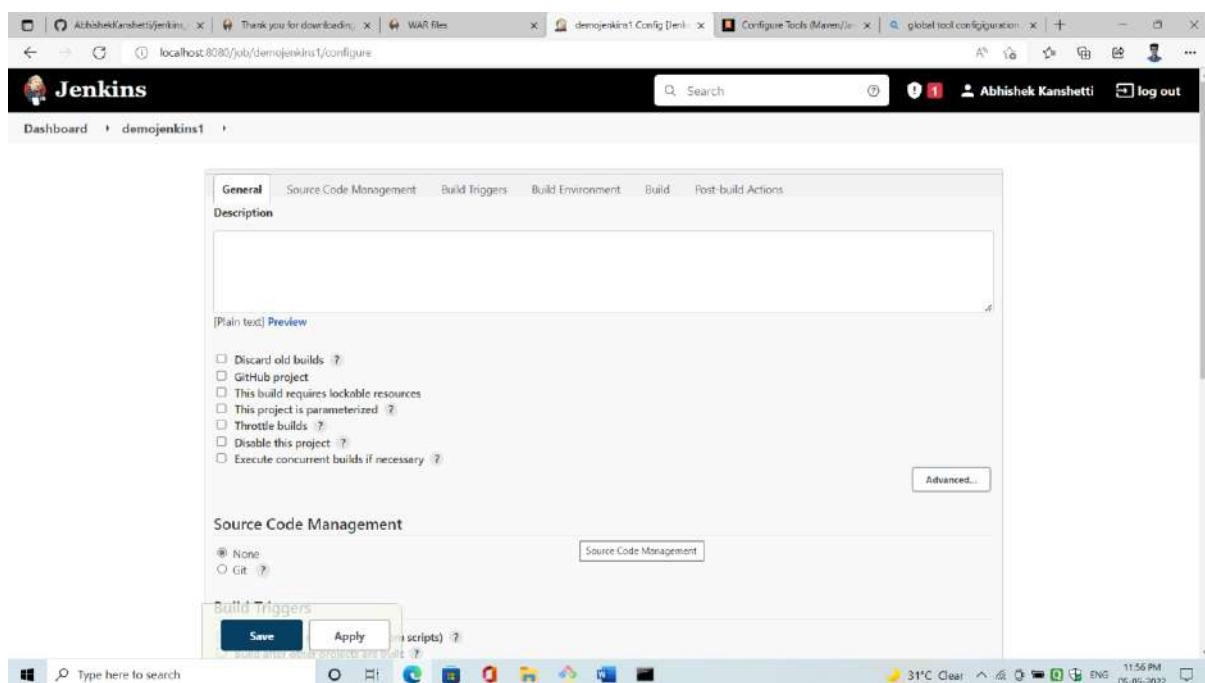
ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Entering the Name of the Job and Selected FreeStyle Project: -



After Clicking on ok: -



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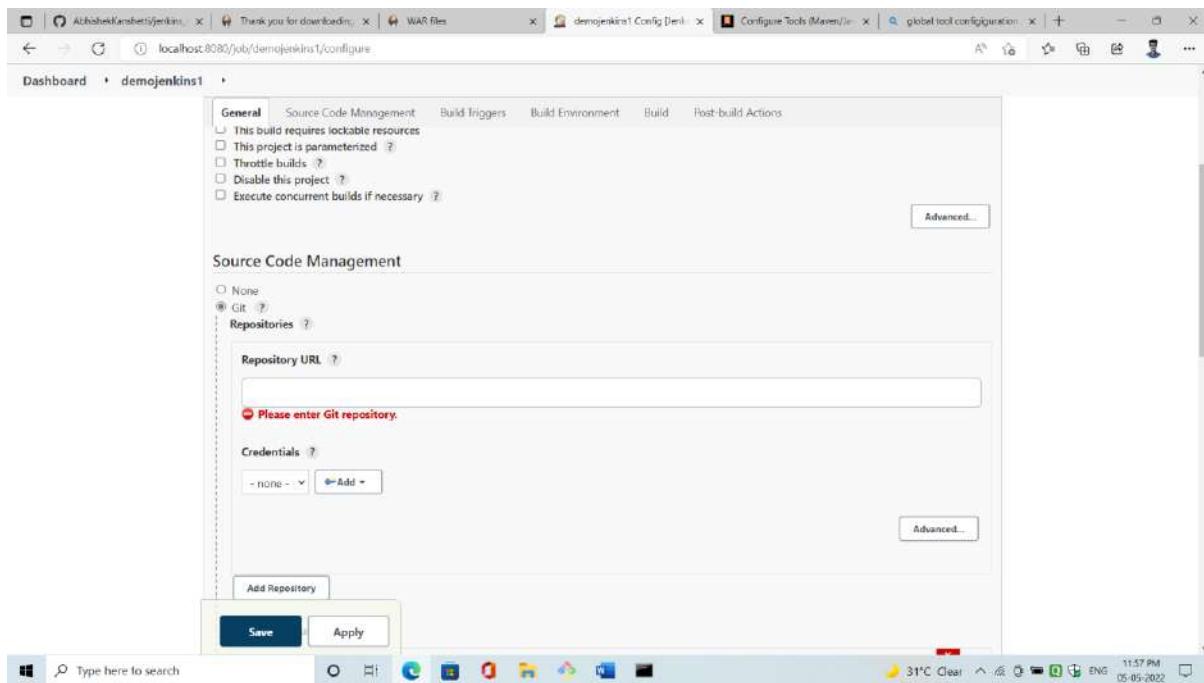
Name: Abhishek Basavraj Kanshetti

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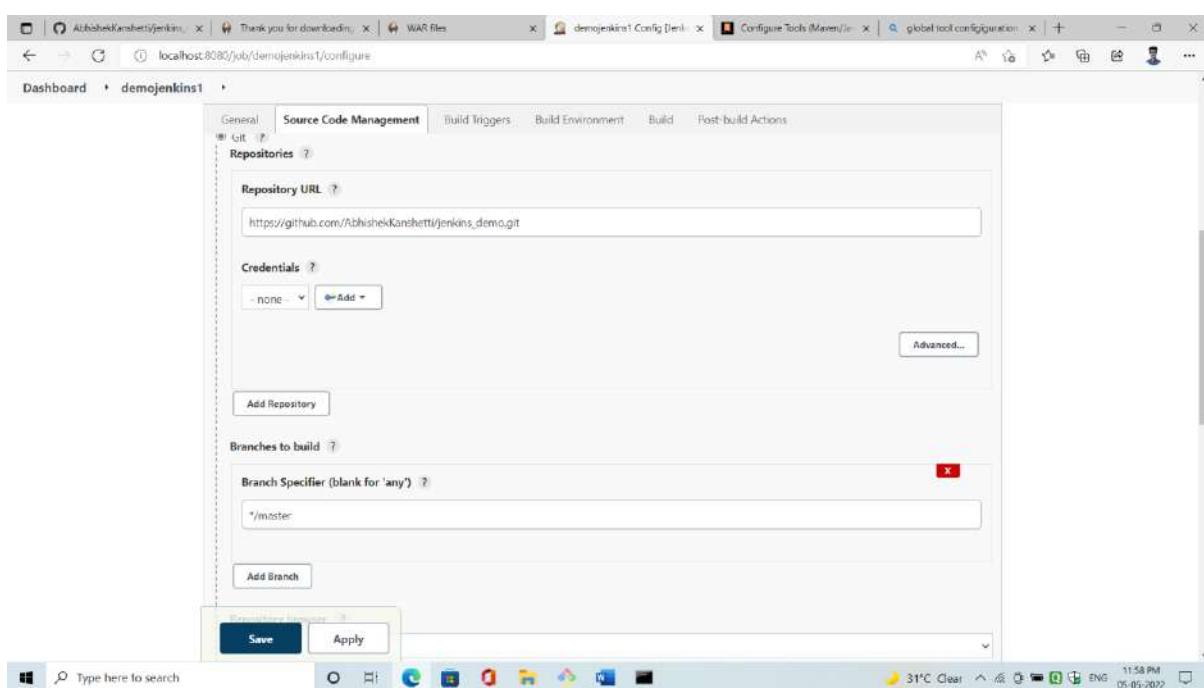
ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Selecting Git Option and Entering our Git Repository URL as follow: -



Entering Branch as Master: -



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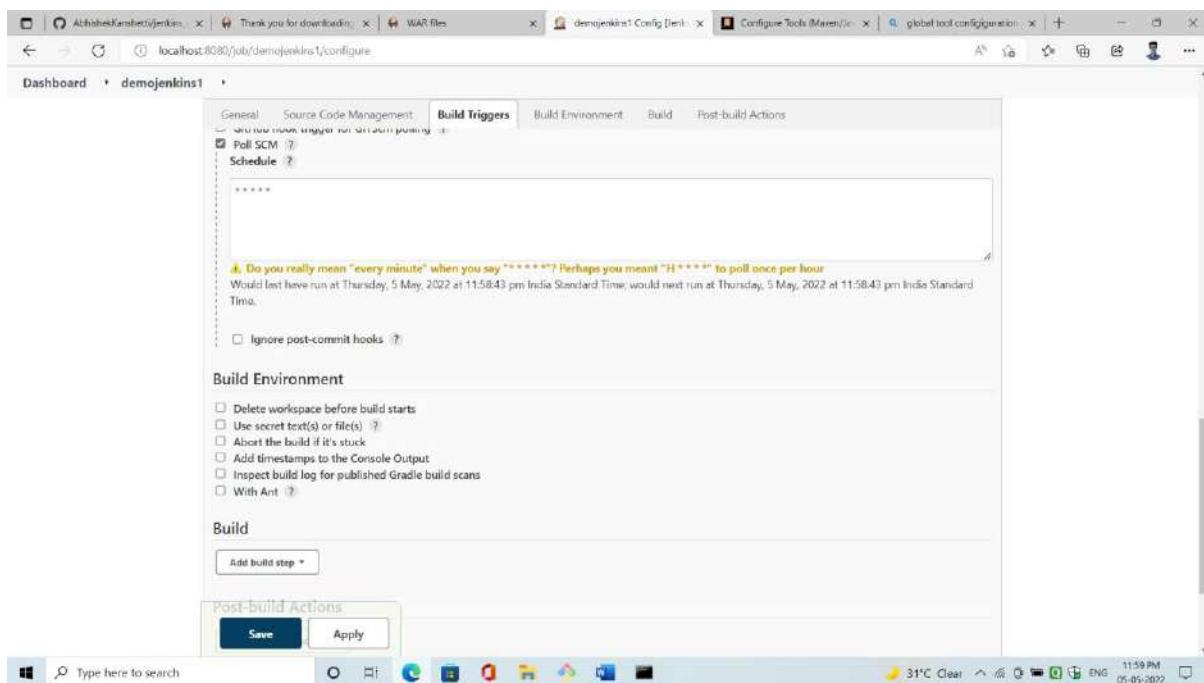
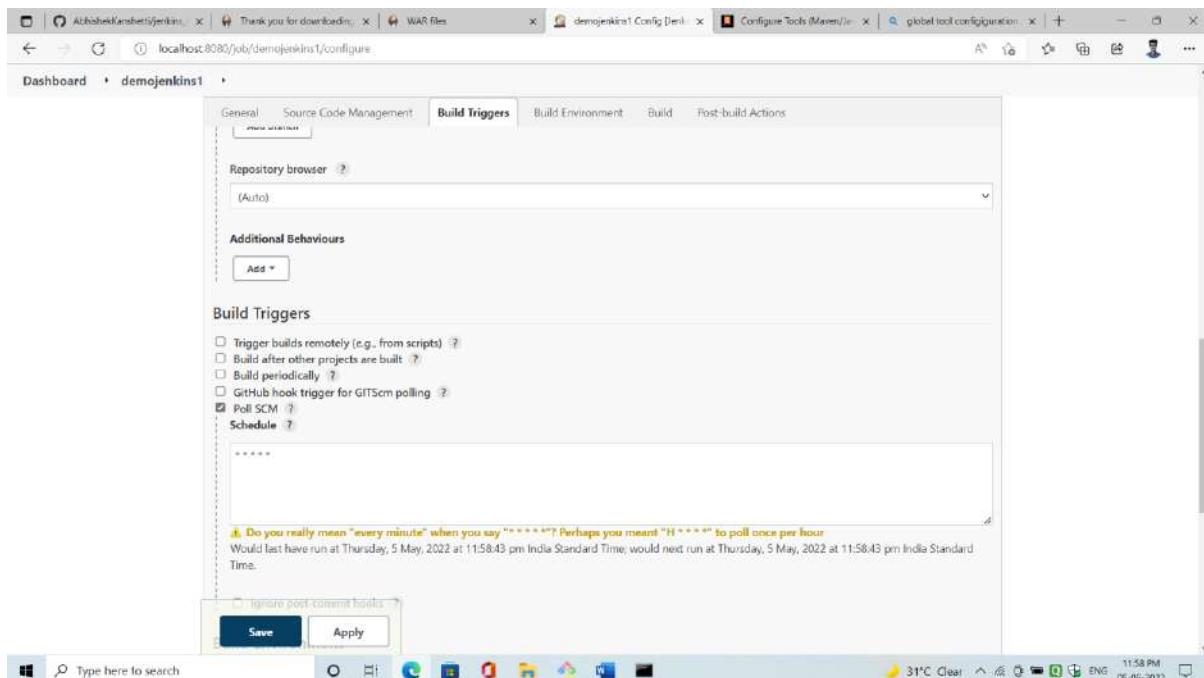
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Selecting Poll SCM Option and Entering “* * * * *” as follow: -



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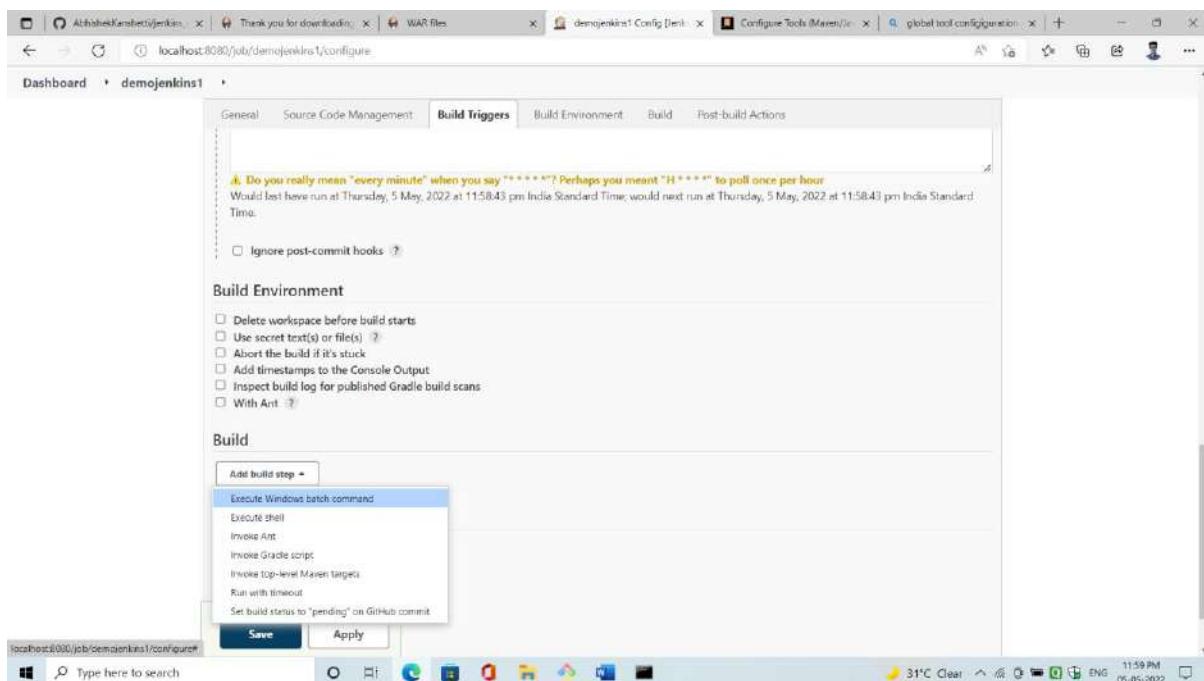
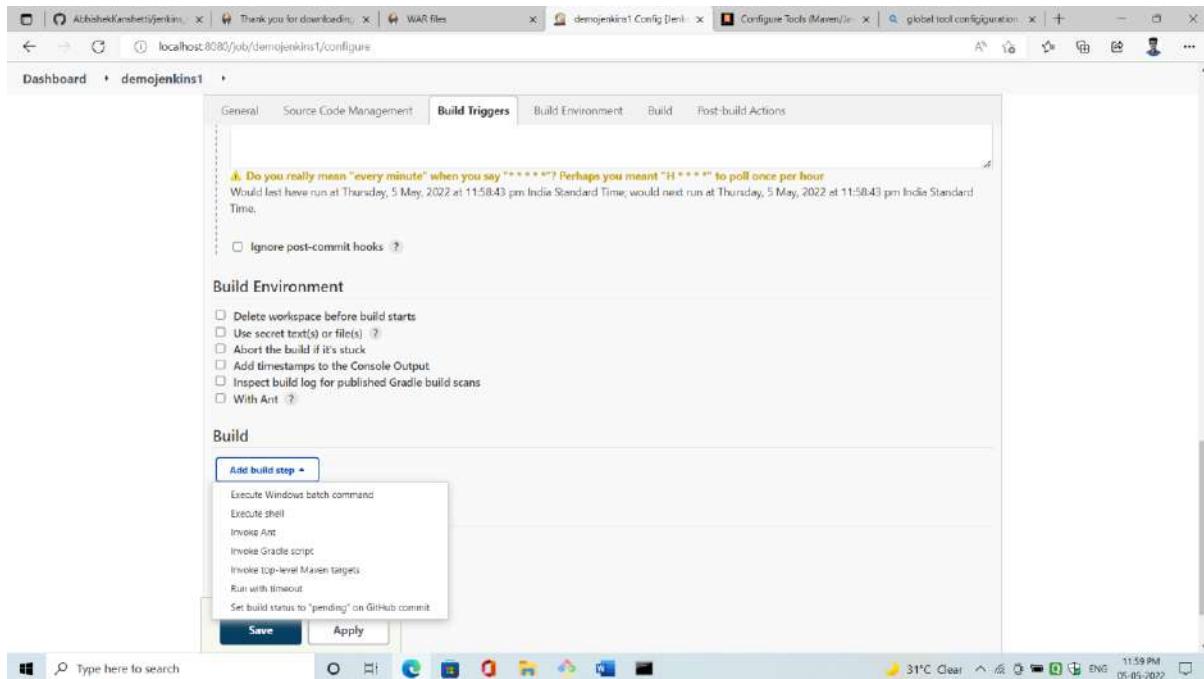
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Selecting “Execute Windows Batch Command” Option in Build as follow: -



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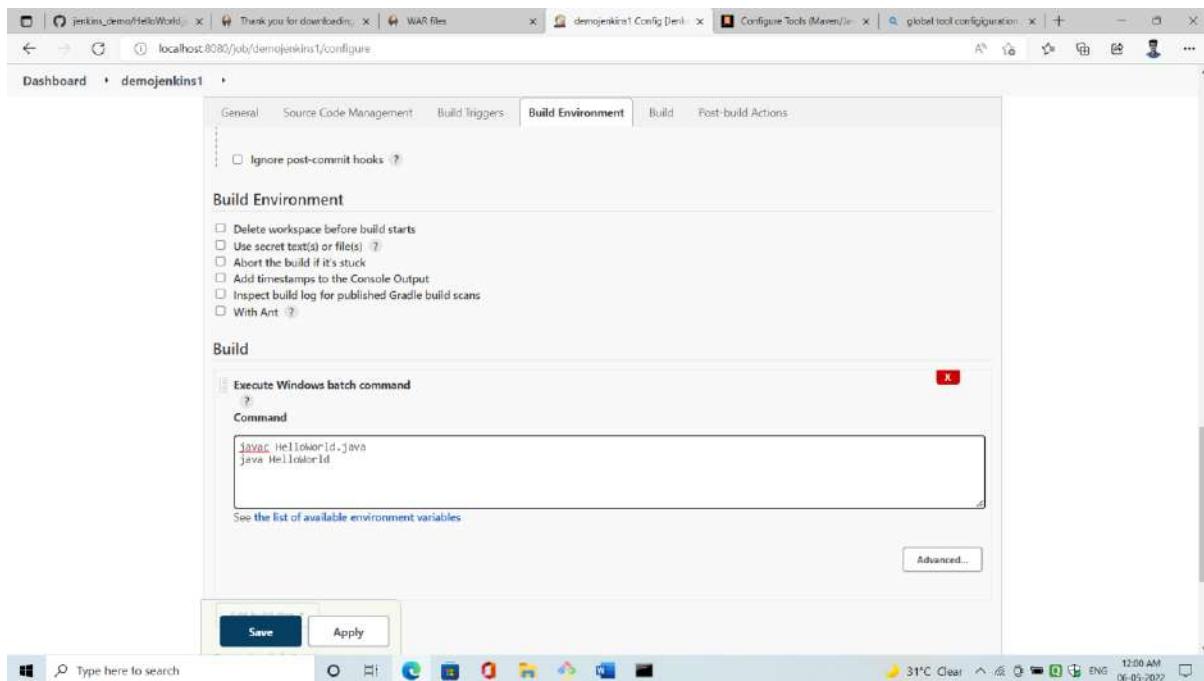
Name: Abhishek Basavraj Kanshetti

Roll No: 22

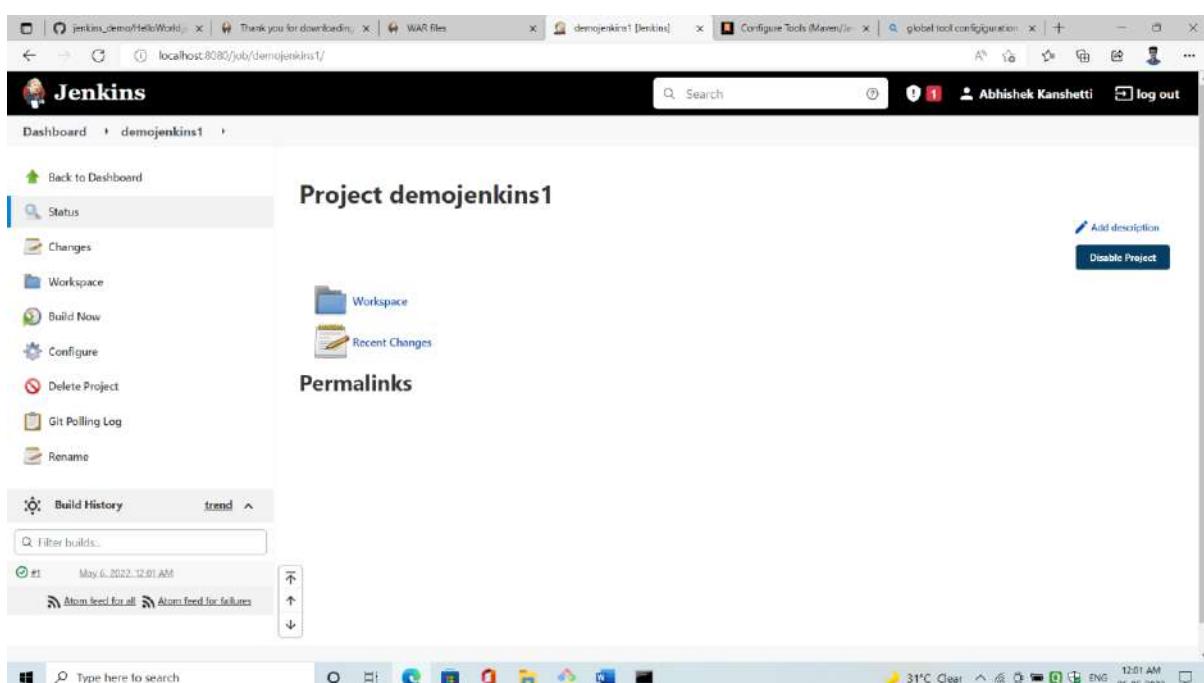
ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Entering the two commands for compiling and running the Java File as follow:-



After clicking on save and Apply, Build Will be Generated: -



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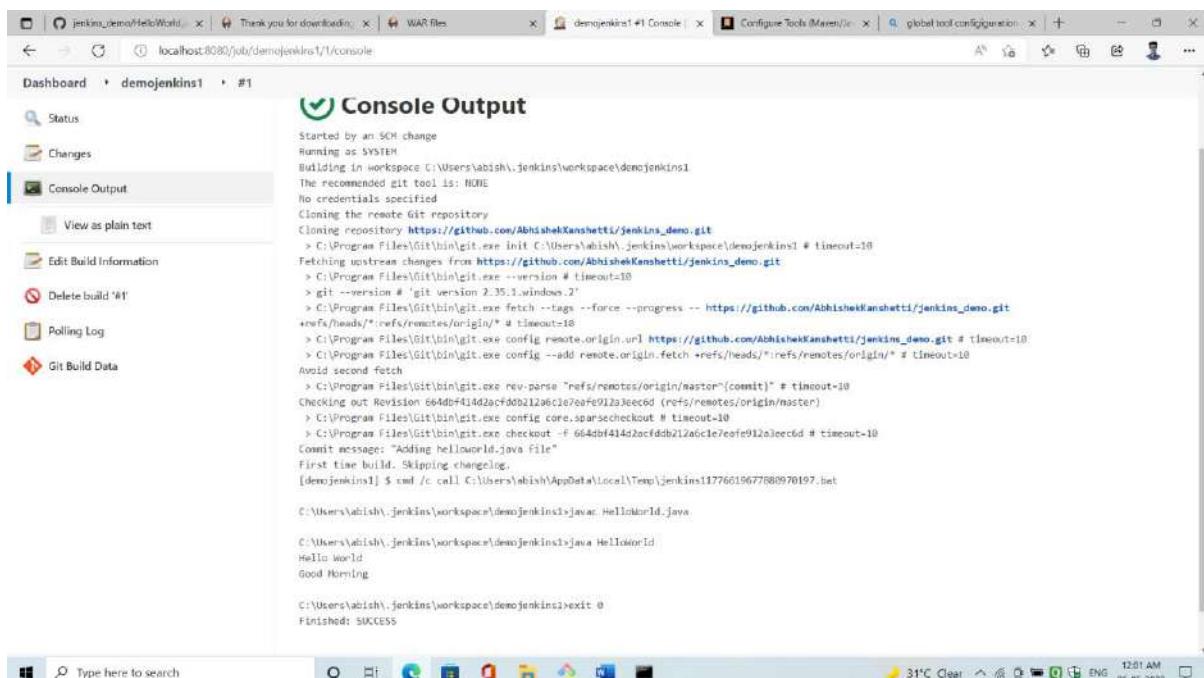
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Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

We can see the output of the program in console output as follow:



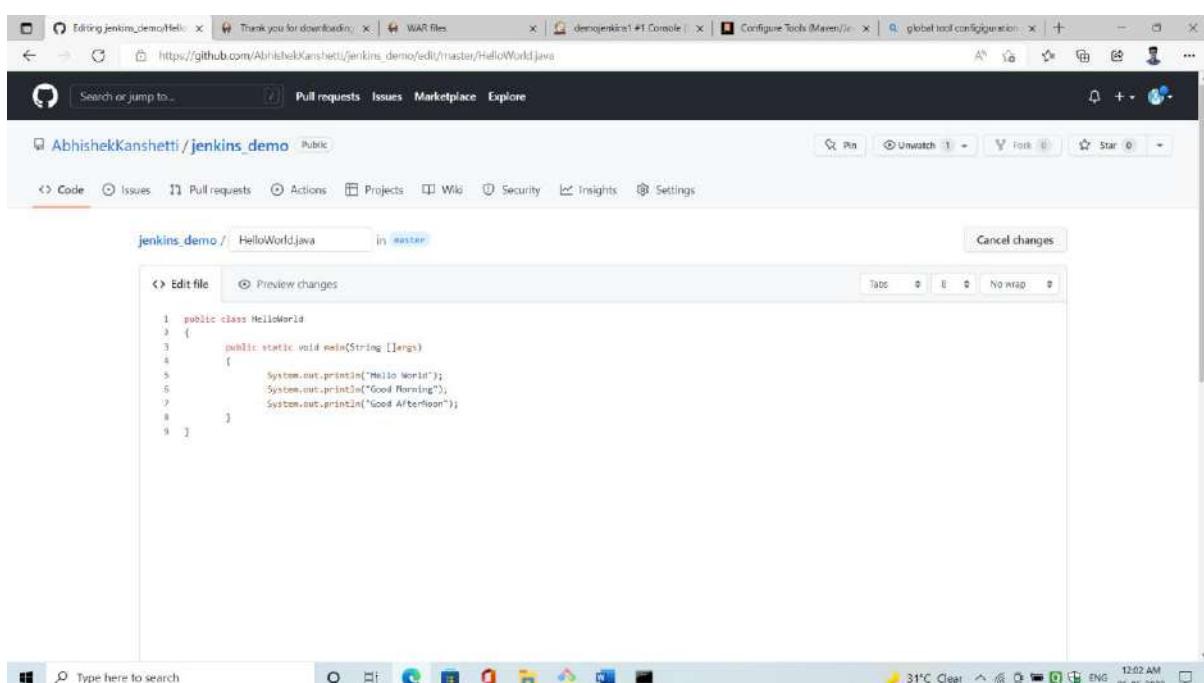
The screenshot shows a browser window with multiple tabs. The active tab is 'Console Output' for the Jenkins job 'demojenkins1'. The console output displays the following log:

```
Started by an SCM change
Running as SYSTEM
Building in workspace C:\Users\abish\jenkins\workspace\demojenkins1
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
  Cloning repository https://github.com/AbhishekKanshetti/jenkins_demo.git
    > C:\Program Files\Git\bin\git.exe init C:\Users\abish\jenkins\workspace\demojenkins1 # timeout=10
  Fetching upstream changes from https://github.com/AbhishekKanshetti/jenkins_demo.git
    > C:\Program Files\Git\bin\git.exe --version # timeout=10
    > git --version # 'git' version 2.35.1.windows.2'
    > C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/AbhishekKanshetti/jenkins_demo.git
    > refs/heads/* refs/remotes/origin/* # timeout=10
    > C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/AbhishekKanshetti/jenkins_demo.git # timeout=10
    > C:\Program Files\Git\bin\git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
  Avoid second fetch
    > C:\Program Files\Git\bin\git.exe rev-parse --refs/remotes/origin/master^{commit} # timeout=10
  Checking out Revision 664dbf414d2c4d00212a62e070ef92a3eecc6d (refs/remotes/origin/master)
    > C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
    > C:\Program Files\Git\bin\git.exe checkout -f 664dbf414d2c4d00212a62e070ef92a3eecc6d # timeout=10
  Commit message: "Adding HelloWorld.java file"
  First time build. Skipping changelog.
[demojenkins1] $ cmd /c call C:\Users\abish\AppData\Local\Temp\jenkins11776619677880970197.bat

C:\Users\abish\jenkins\workspace\demojenkins1>jar cvf HelloWord.jar .
C:\Users\abish\jenkins\workspace\demojenkins1>java HelloWord
Hello world
Good Morning

C:\Users\abish\jenkins\workspace\demojenkins1>exit 0
Finished: SUCCESS
```

Now we will make changes in our HelloWorld.java file on Git Repository: -



The screenshot shows a GitHub pull request interface for the repository 'AbhishekKanshetti/jenkins_demo'. The pull request is titled 'Edit file' and shows changes to the 'HelloWorld.java' file. The code in the file is:

```
1 public class HelloWorld
2 {
3     public static void main(String []args)
4     {
5         System.out.println("Hello World");
6         System.out.println("Good Morning");
7         System.out.println("Good Afternoon");
8     }
9 }
```

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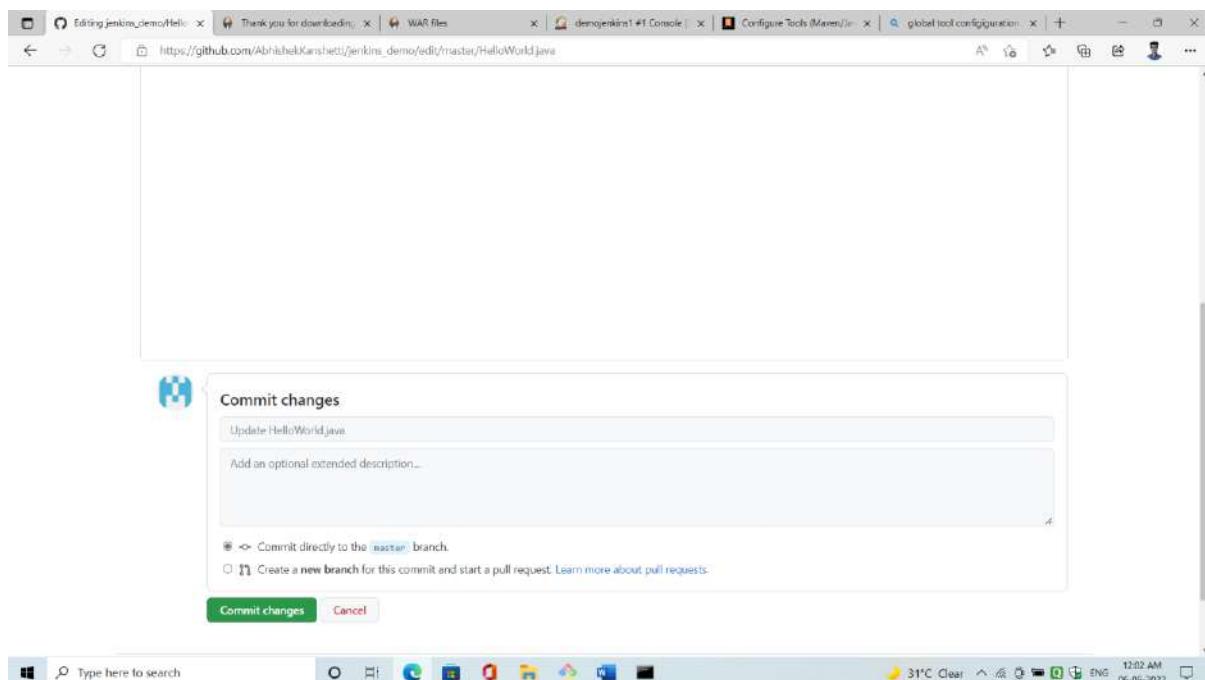
Name: Abhishek Basavraj Kanshetti

Roll No: 22

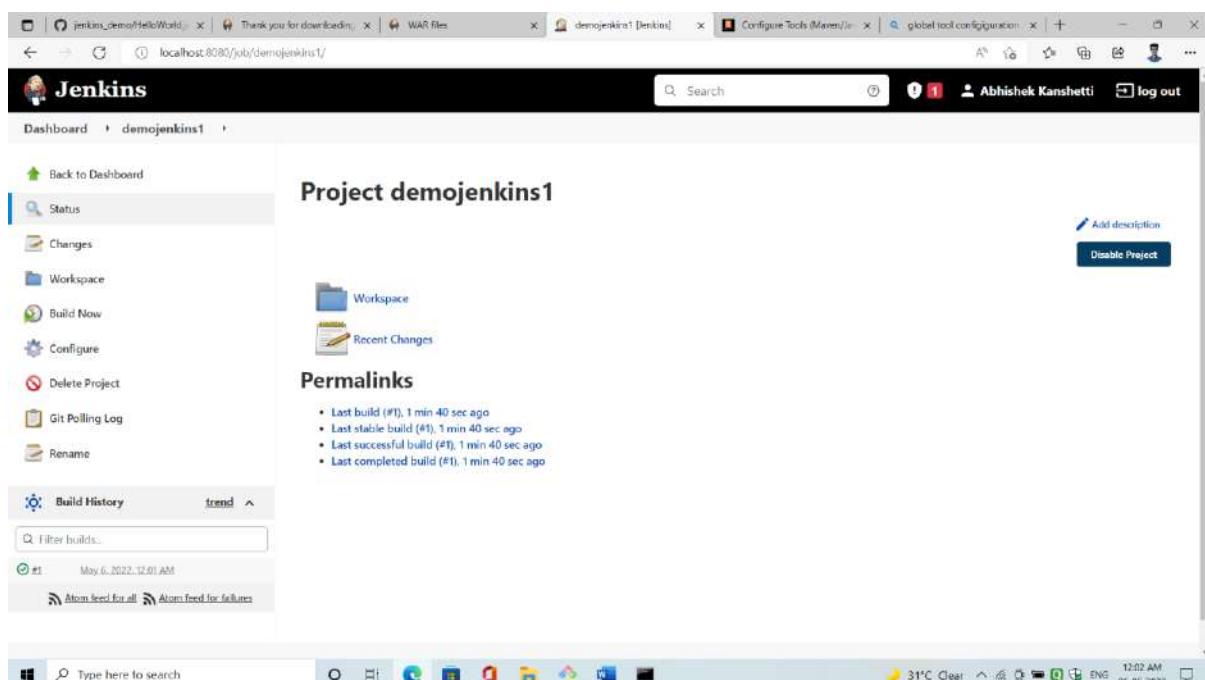
ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

We will commit it as below: -



Now in the Jenkins DashBoard, In some time the Build will be automatically generated: -



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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins

Here you can see Build is generated successfully: -

The screenshot shows the Jenkins dashboard for the 'demojenkins1' project. The 'Build History' section displays two recent successful builds:

- May 6, 2022, 12:03 AM
- May 6, 2022, 12:01 AM

Links for 'Atom feed for all' and 'Atom feed for failures' are also visible.

Console Output Will be according to the changes made in HelloWorld.java as below: -

```

Started by an SCM change
Running as SYSTEM
Building in workspace C:\Users\Abish\jenkins\workspace\demojenkins1
The recommended git tool is: NONE
No credentials specified
> C:\Program Files\Git\bin\git.exe rev-parse --resolve-git-dir C:\Users\abish\jenkins\workspace\demojenkins1\.git # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/AbhishekKanshetti/jenkins_demo.git
Fetching upstream changes from https://github.com/AbhishekKanshetti/jenkins_demo.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # 'git' version 2.35.1.windows.2^
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/AbhishekKanshetti/jenkins_demo.git
refs/heads/* refs/remotes/origin/* ^ timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision 3f872704ee9a06f50c57d6948eb925ef45ddde (refs/remotes/origin/master)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f 3f8727b0eqa0df502c37d694e8ab025ef45ddde # timeout=10
Commit message: "Update HelloWorld.java"
> C:\Program Files\Git\bin\git.exe rev-list --no-walk 664dbf41dd2acf0db21286c1e7cafe512a3ec6d # timeout=10
[demojenkins1] $ end /c call C:\Users\Abish\AppData\Local\Temp\jenkins1556693301403628766.bat

C:\Users\Abish\jenkins\workspace\demojenkins1>javac HelloWorld.java
C:\Users\Abish\jenkins\workspace\demojenkins1>java HelloWorld
Hello world
Good Morning
Good Afternoon

```

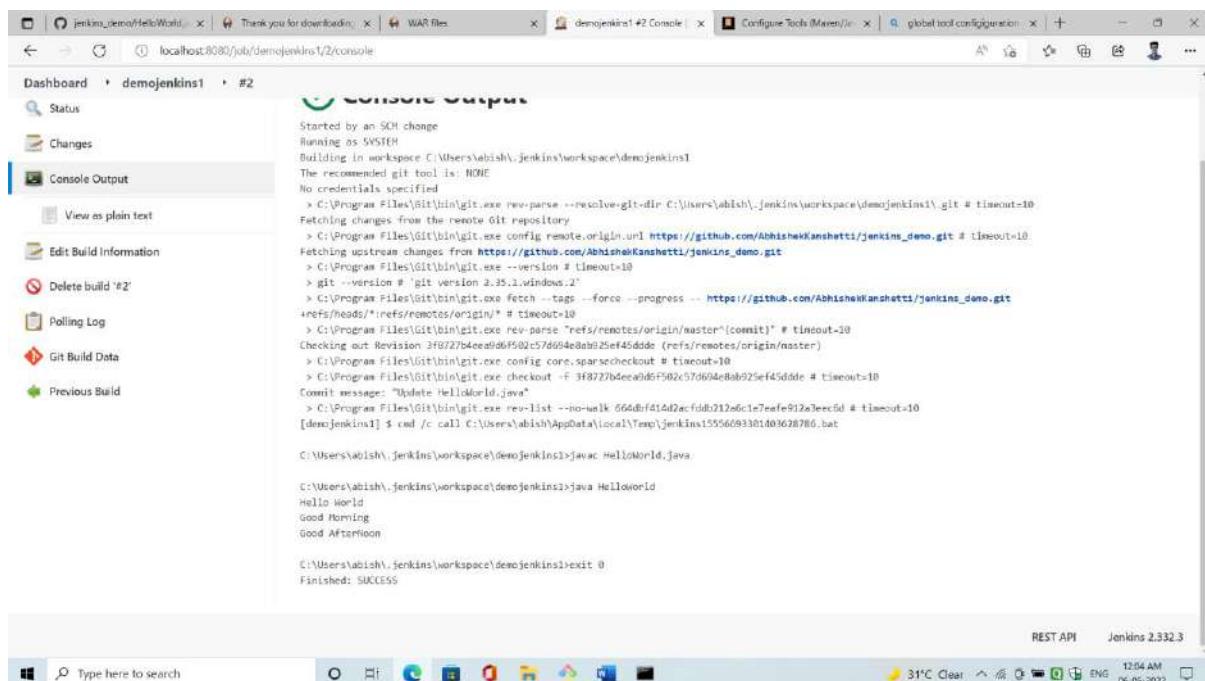
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 5

Title: Create a Job in Jenkins



The screenshot shows a Windows desktop environment with a taskbar at the bottom. On the taskbar, there are several open browser tabs for Jenkins, including 'jenkins_demo/HelloWorld', 'localhost:8080/job/demojenkins1/2/console', 'Configure Tools (Maven)...', and 'global tool configuration'. There is also a 'REST API' tab and a Jenkins 2.332.3 status icon. In the system tray, there are icons for battery level (31°C), network, volume, and date/time (12:54 AM, 06-05-2022).

Console Output:

```
Started by an SCM change
Running as SYSTEM
Building in workspace C:\Users\abish\jenkins\workspace\demojenkins1
The recommended git tool is: NONE
No credentials specified
> C:\Program Files\Git\bin\git.exe rev-parse --rev-suffix= -C:\Users\abish\jenkins\workspace\demojenkins1\git # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/AbhishekKanshetti/jenkins_demo.git # timeout=10
Fetching upstream changes from https://github.com/AbhishekKanshetti/jenkins_demo.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # 'git' version 2.35.1.windows.2'
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/AbhishekKanshetti/jenkins_demo.git
+refs/heads/*refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse --refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 3fb227bdeea0d6f50fc57d694eabb25ef45ddde (refs/remotes/origin/master)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f 3fb227bdeea0d6f50fc57d694eabb25ef45ddde # timeout=10
Commit message: "Update HelloWorld.java"
C:\Program Files\Git\bin\git.exe rev-list --no-walk 664dbbf1d2ecfd8212e6c1e7eafe912a3ec0d # timeout=10
[demojenkins1] $ cmd /c call C:\Users\abish\AppData\Local\Temp\jenkins1556693301d03628786.bat

C:\Users\abish\jenkins\workspace\demojenkins1>javac HelloWorld.java

C:\Users\abish\jenkins\workspace\demojenkins1>java HelloWorld
Hello World
Good Morning
Good Afternoon

C:\Users\abish\jenkins\workspace\demojenkins1>exit 0
Finished: SUCCESS
```

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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Aim:

Automate Deployment using Jenkins plugin "Deploy to container"

Problem statement:

Automate Deployment using Jenkins plugin "Deploy to container".

Submit pdf file with all steps and screenshots.

Output Screenshots:

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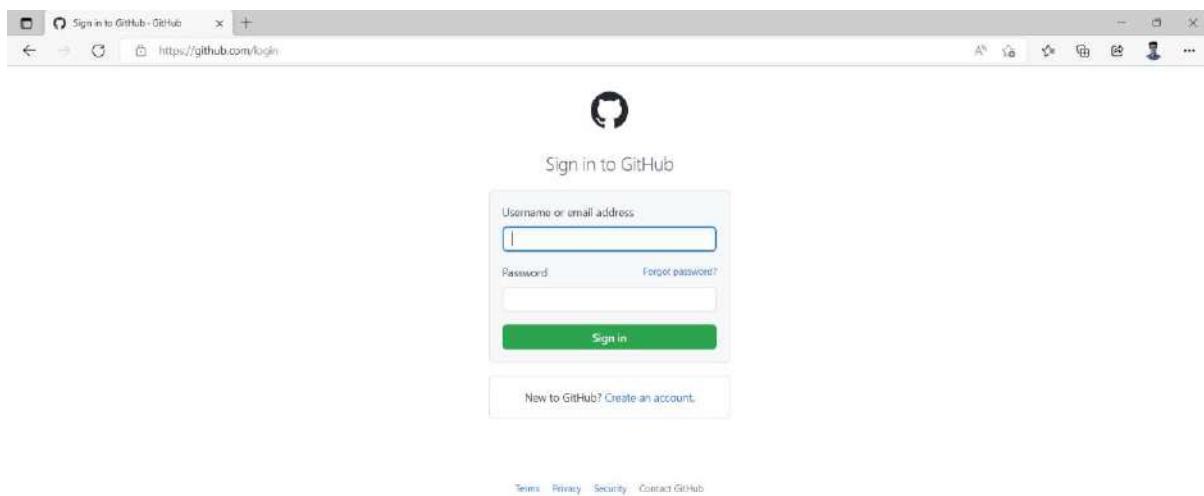
Name: Abhishek Basavraj Kanshetti

Roll No: 22

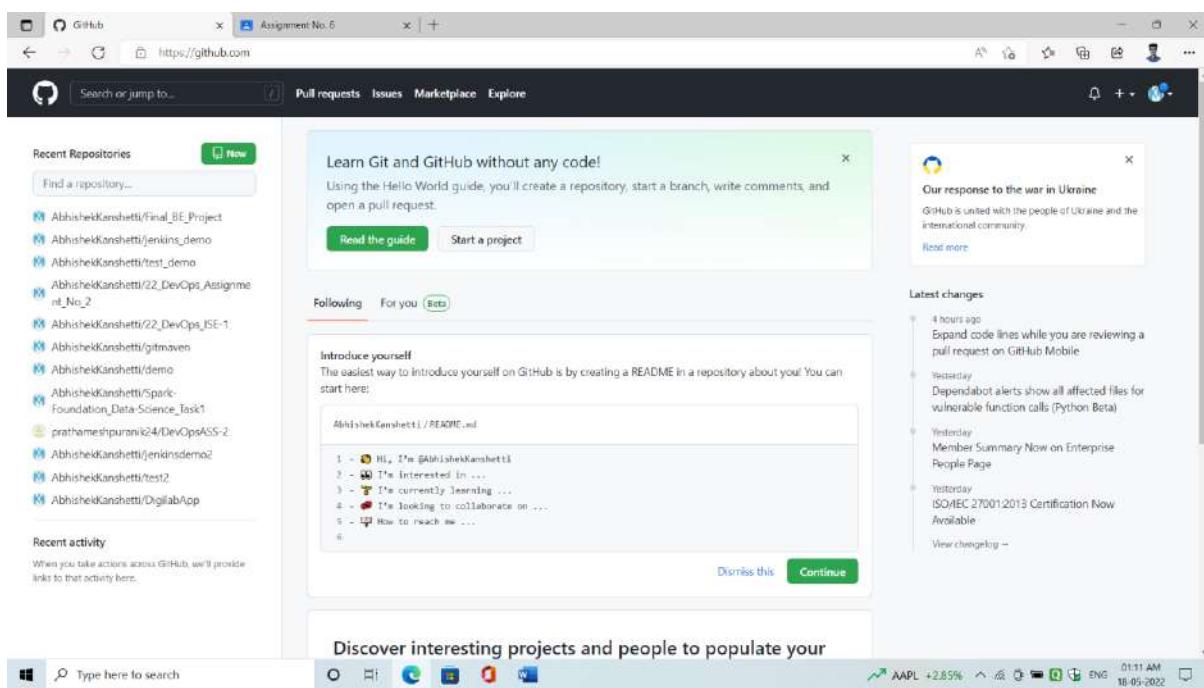
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Sign In to GitHub Account: -



Signed In to GitHub Account: -



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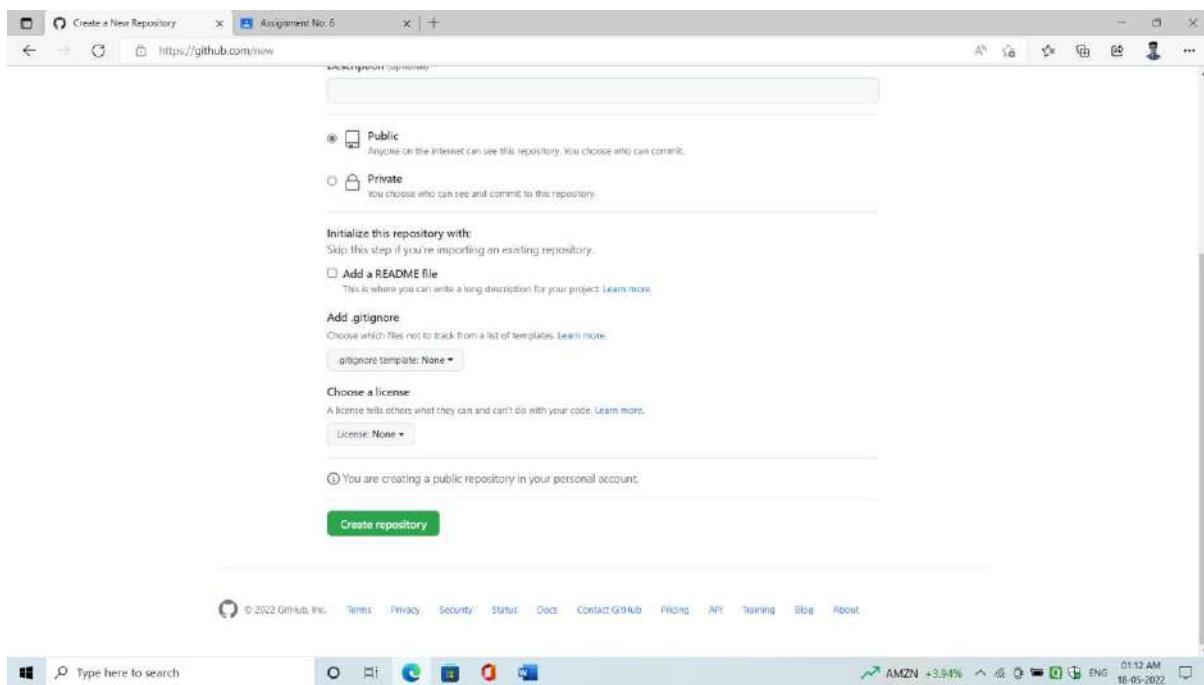
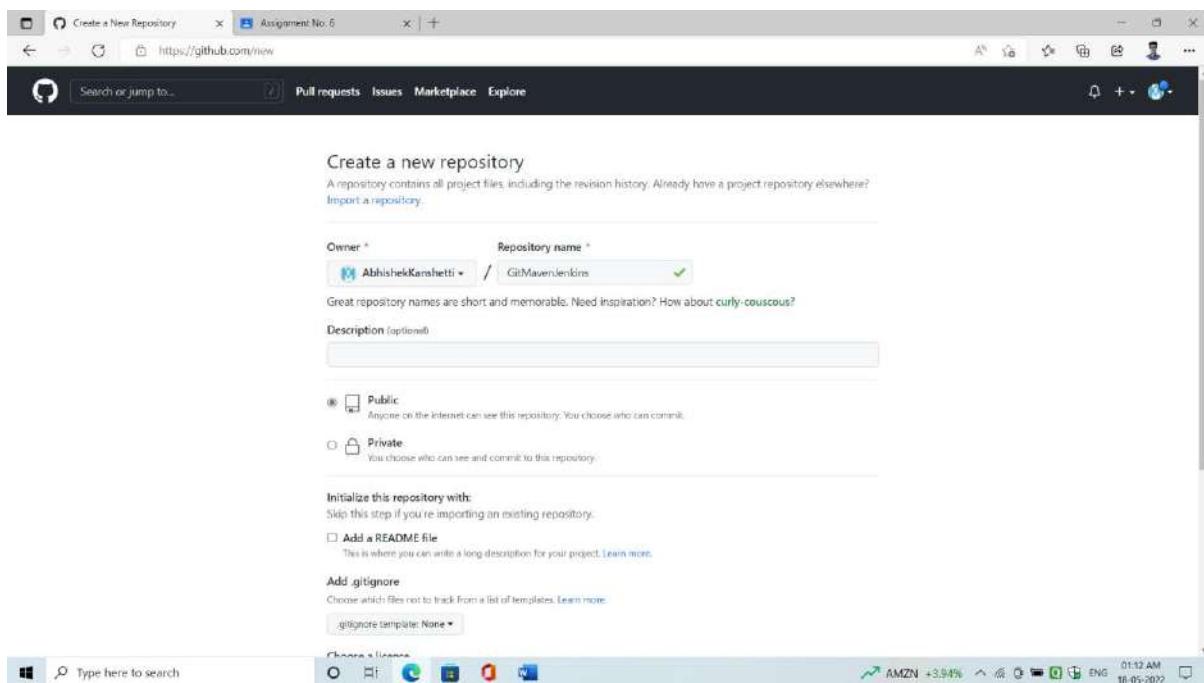
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Create A New Public Repository: -



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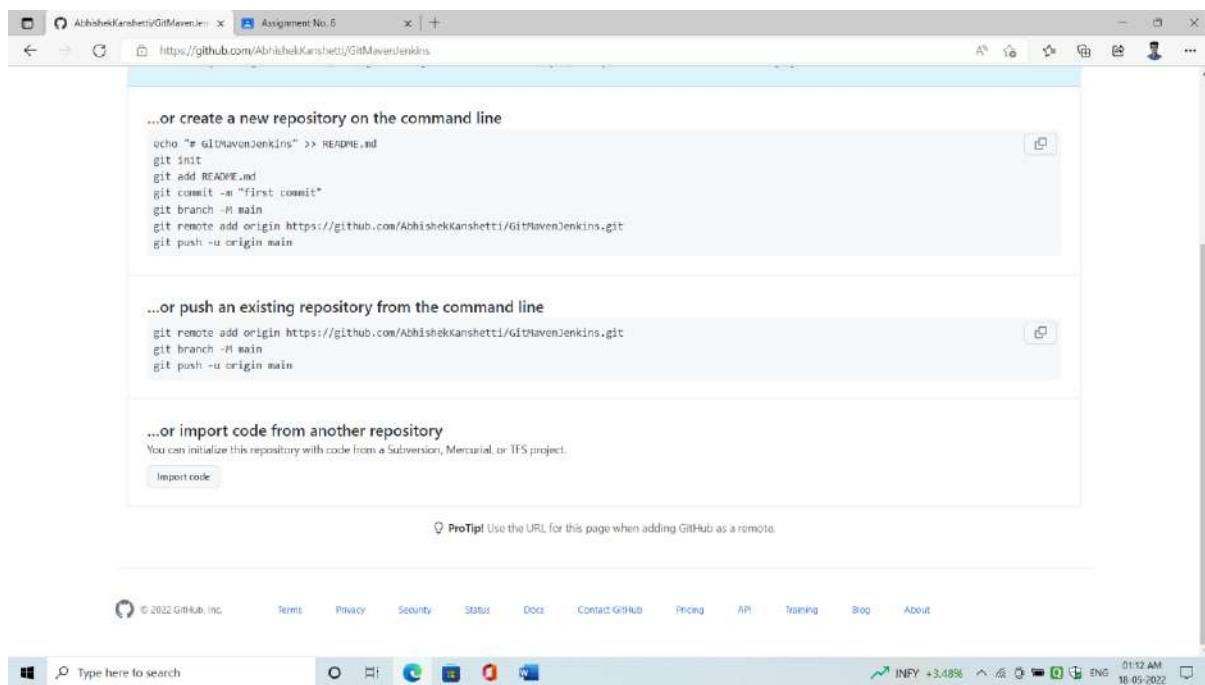
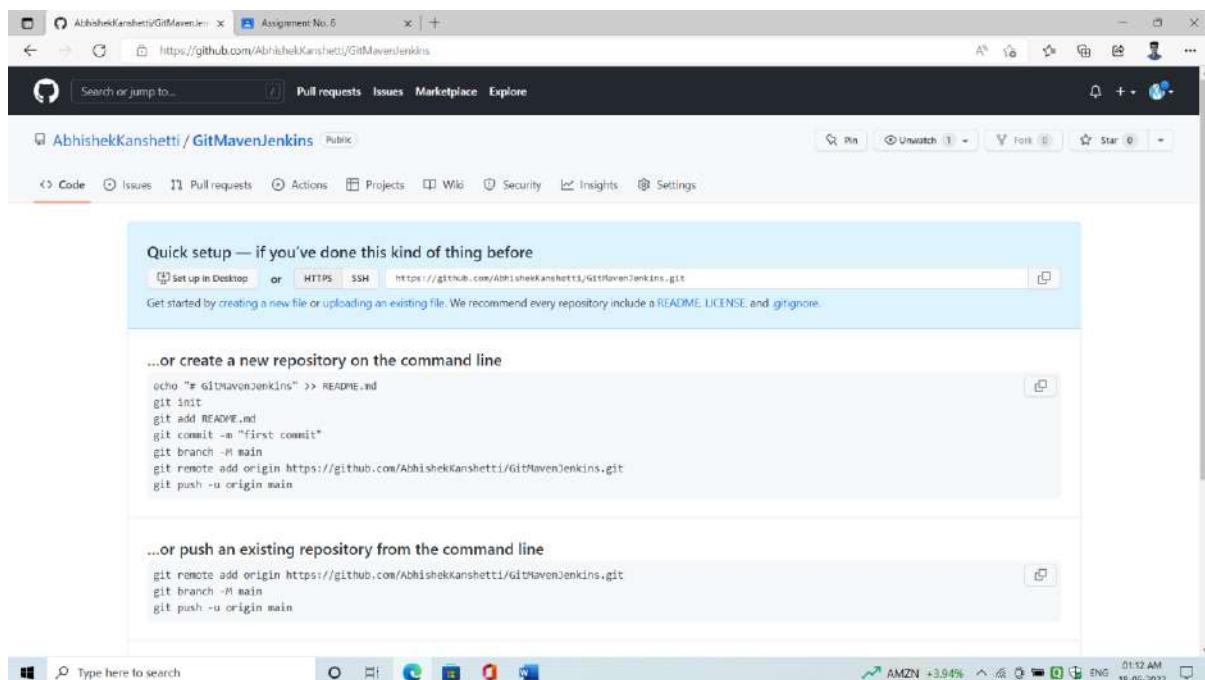
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Created a New Repository Named “GitMavenJenkins”: -



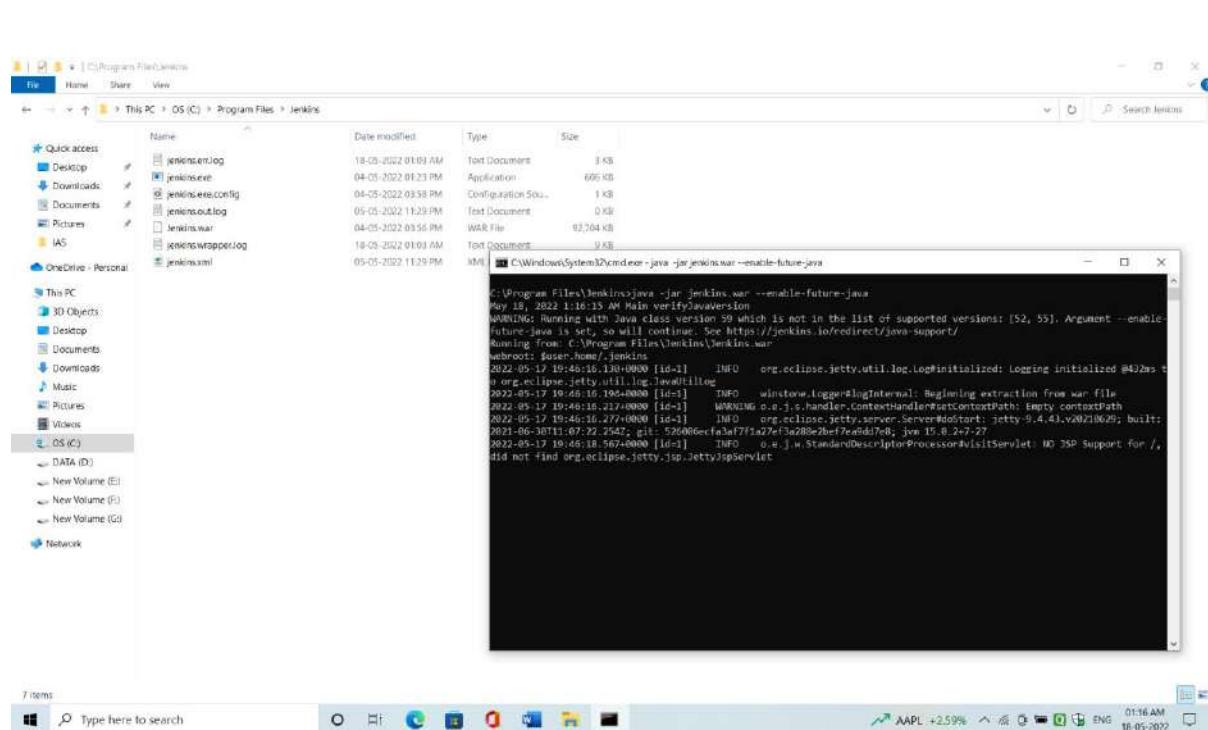
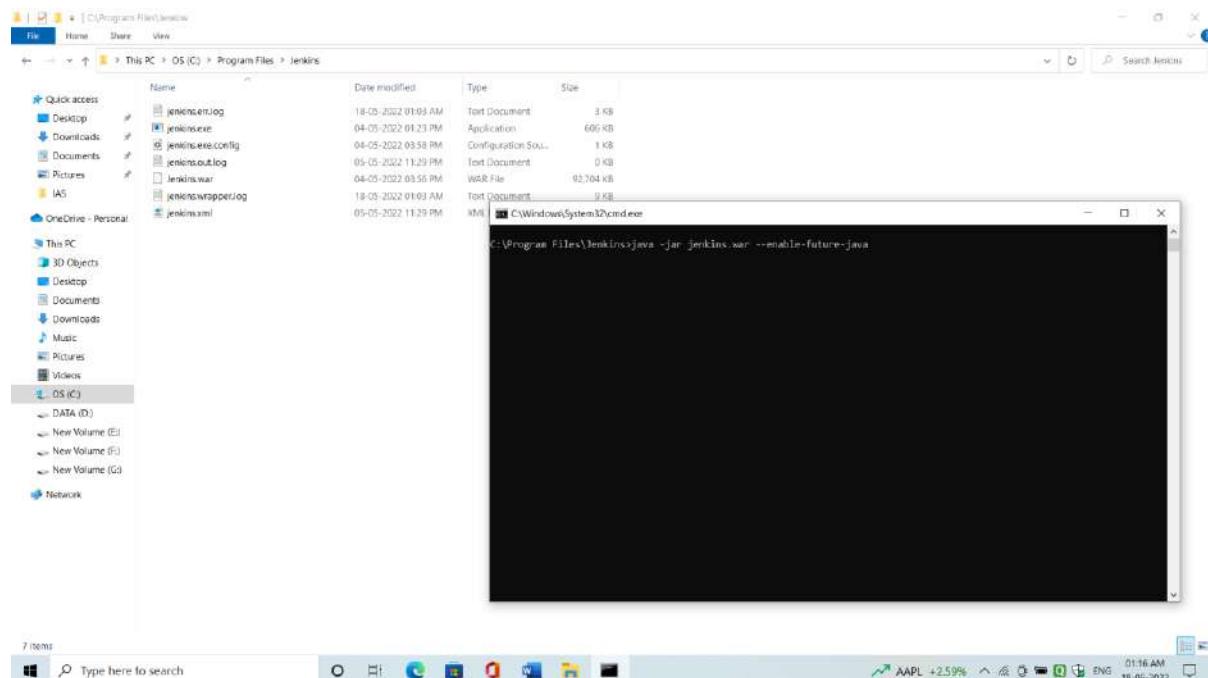
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Starting a Jenkins by Giving Command as Below:-



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Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Login Page of Jenkins as Follow: -



Welcome to Jenkins!

Sign in

Keep me signed in



Welcome to Jenkins!

Invalid username or password

Sign in

Keep me signed in



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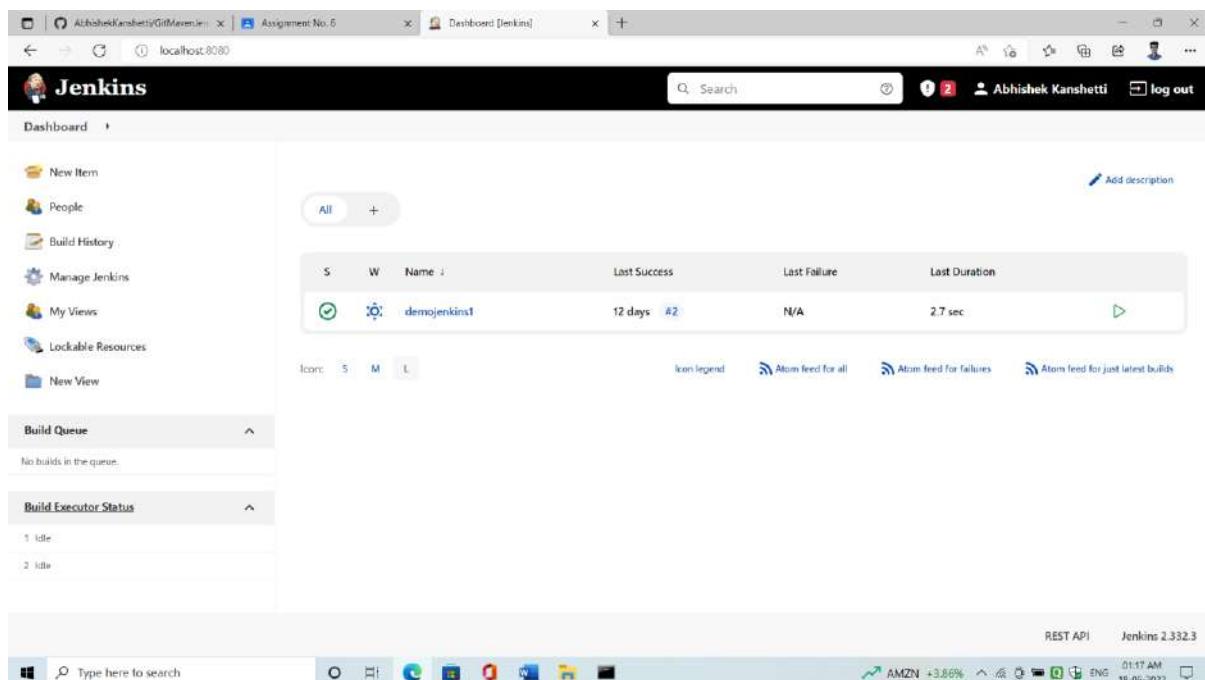
Name: Abhishek Basavraj Kanshetti

Roll No: 22

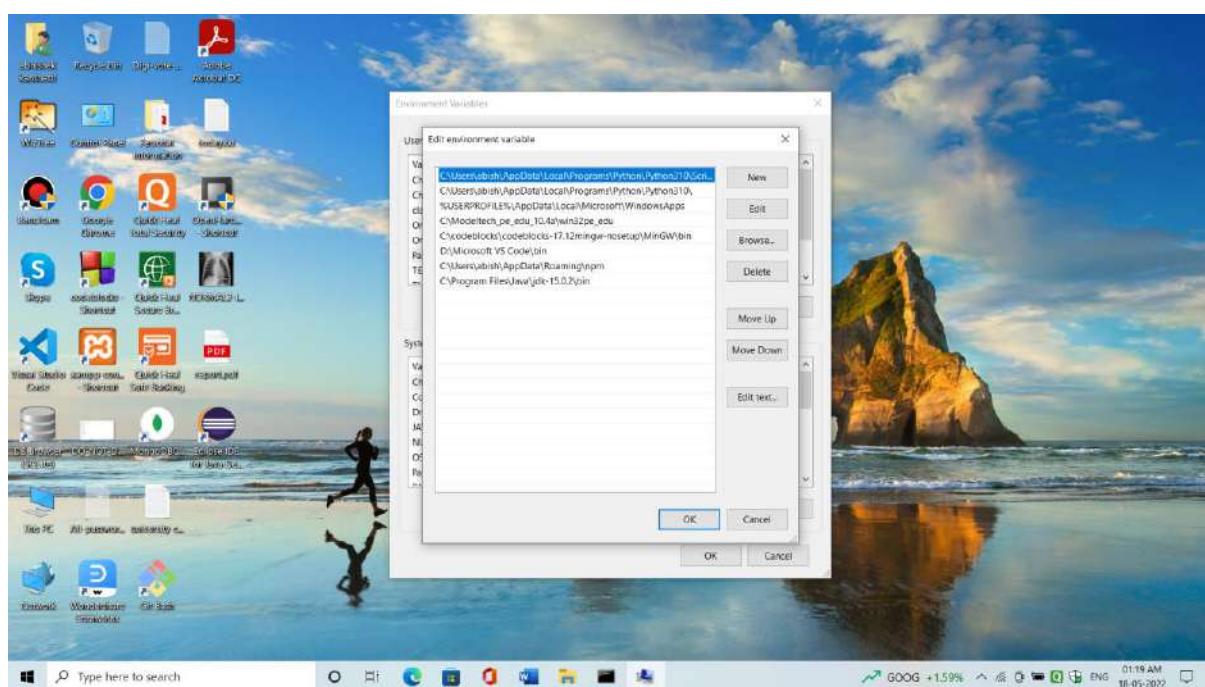
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Logged In Successfully to Jenkins: -



Adding the Environment Variable as follow: -



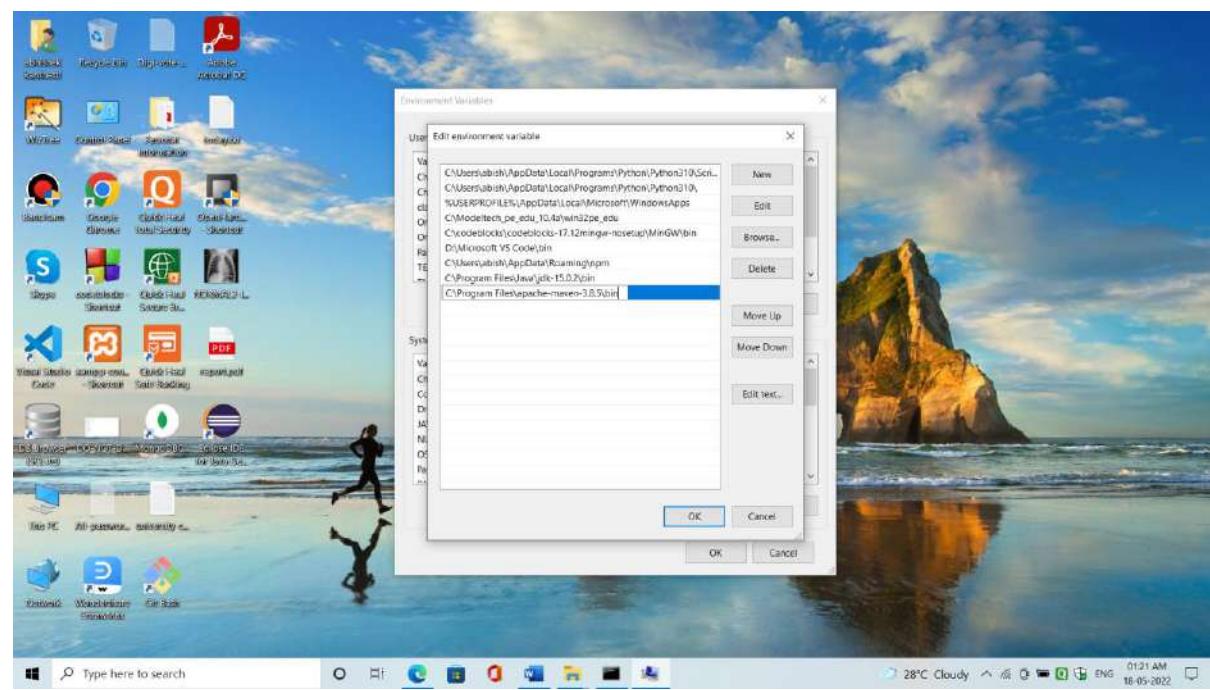
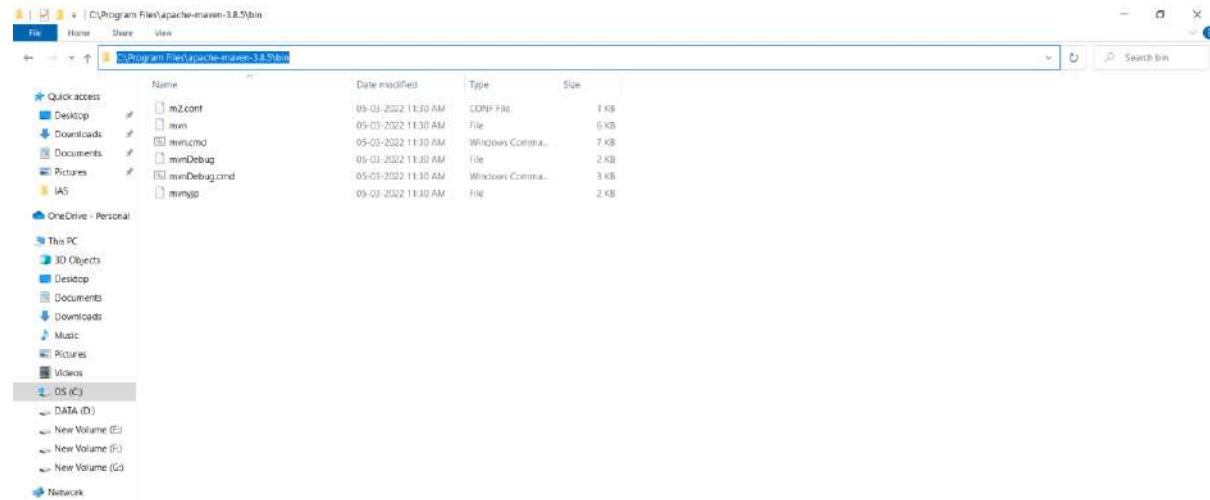
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



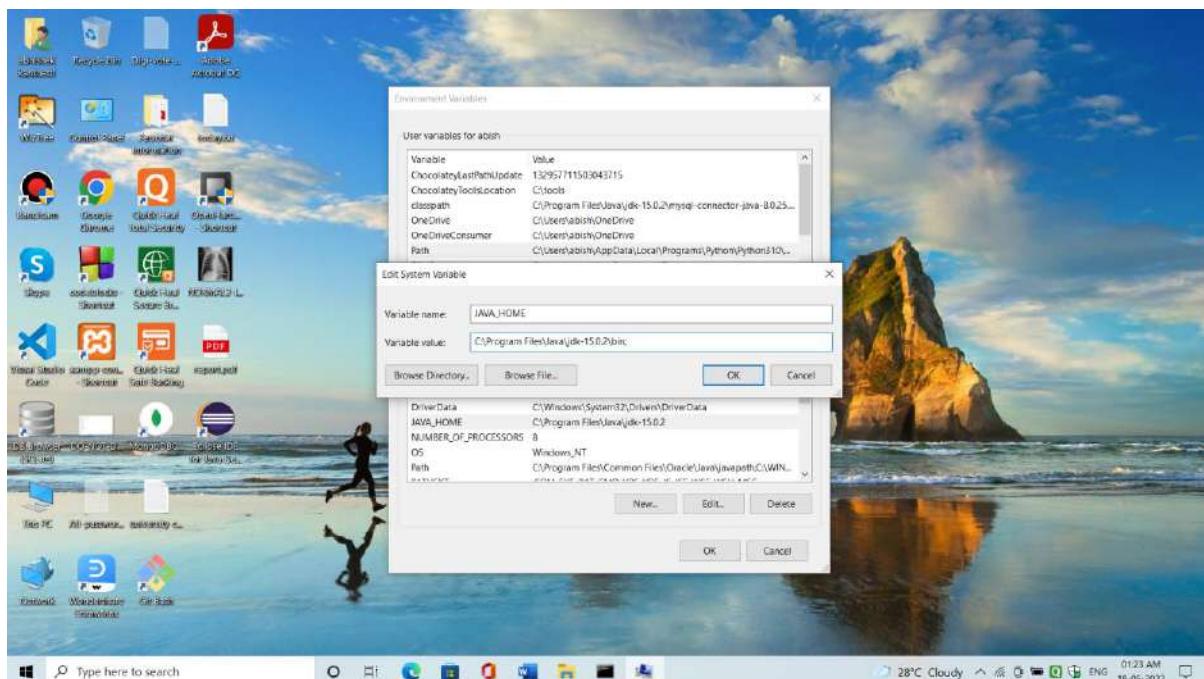
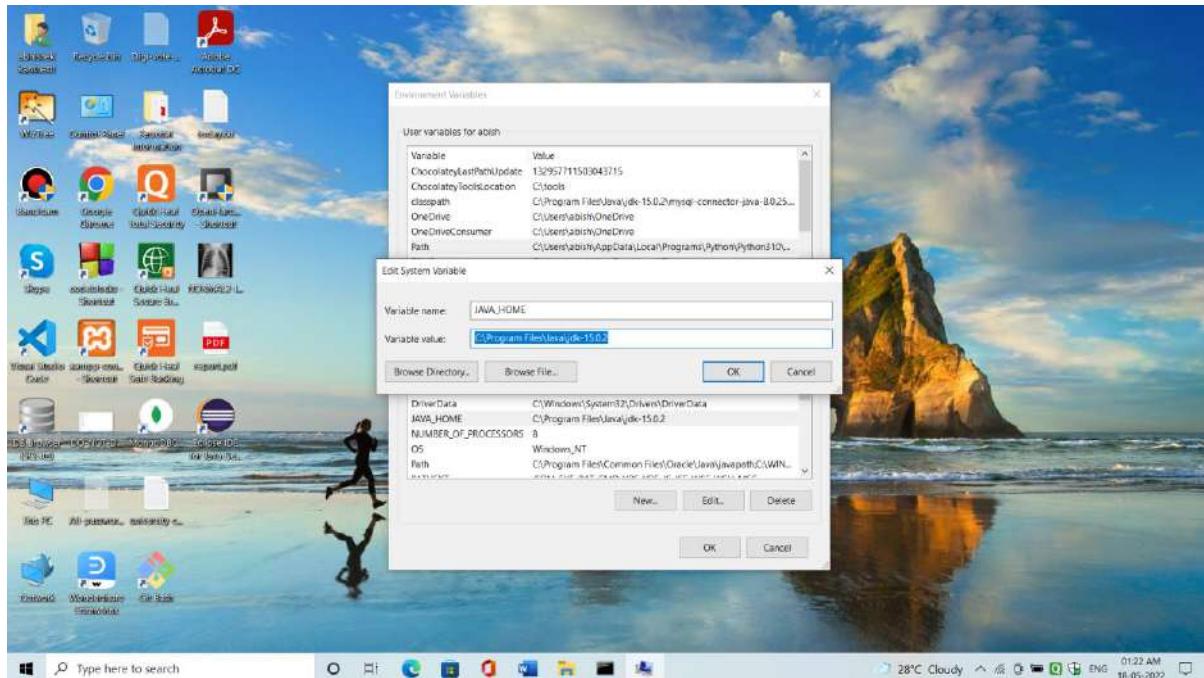
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



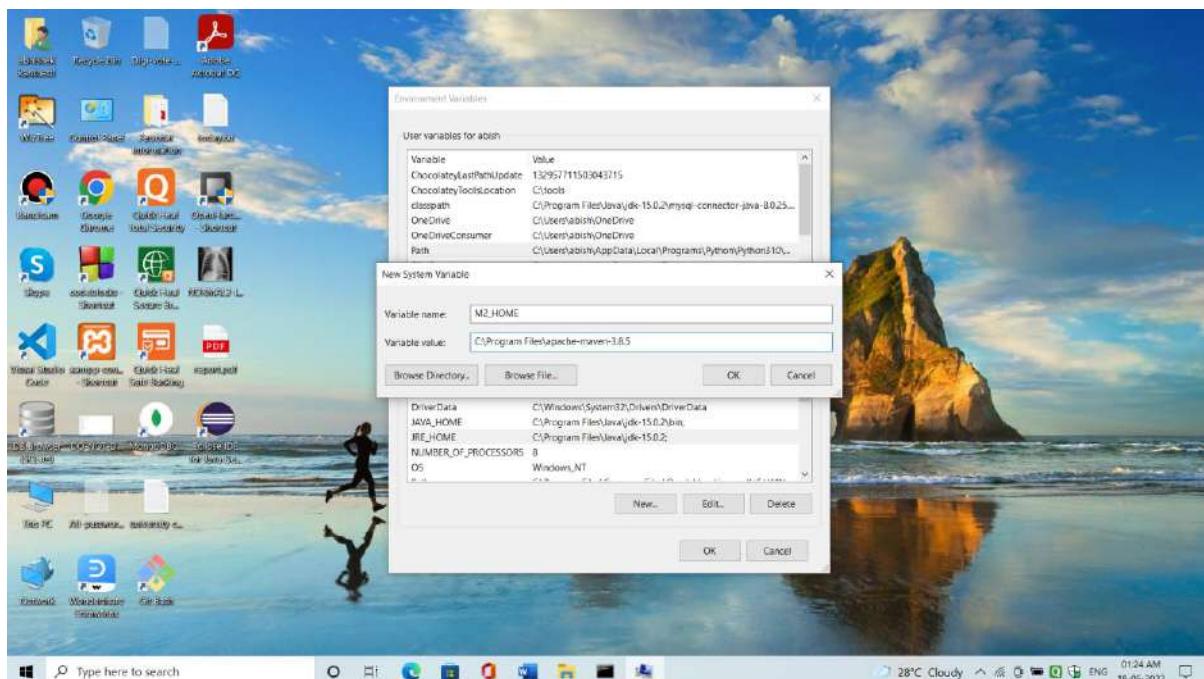
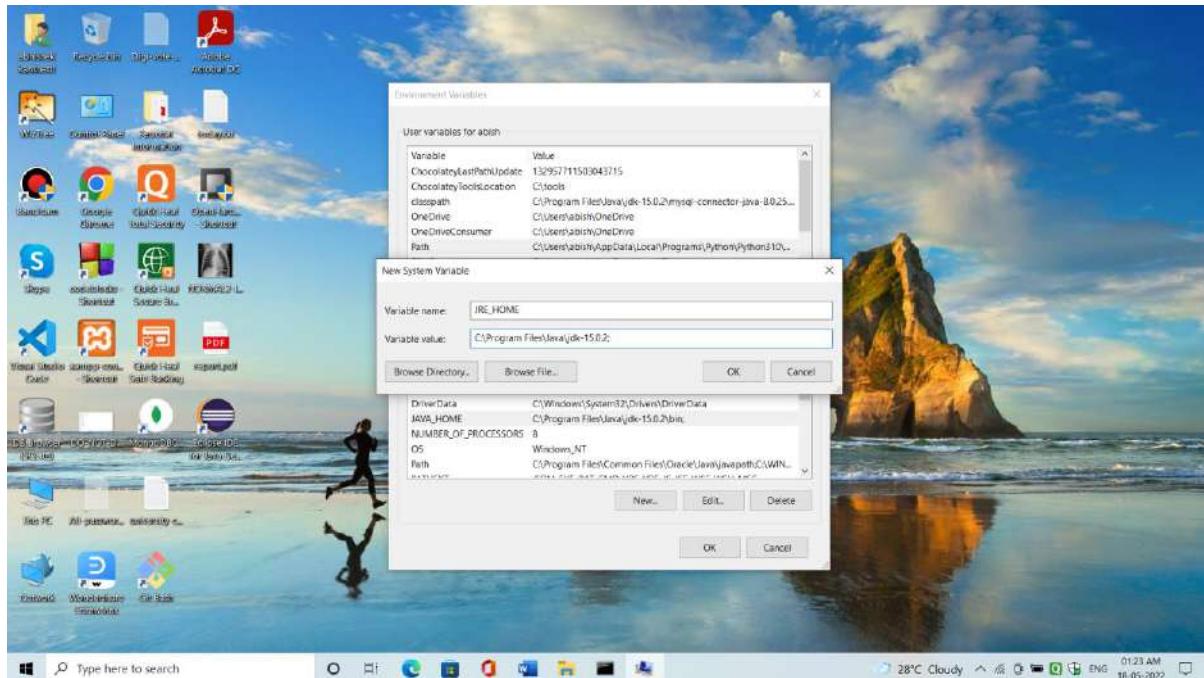
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



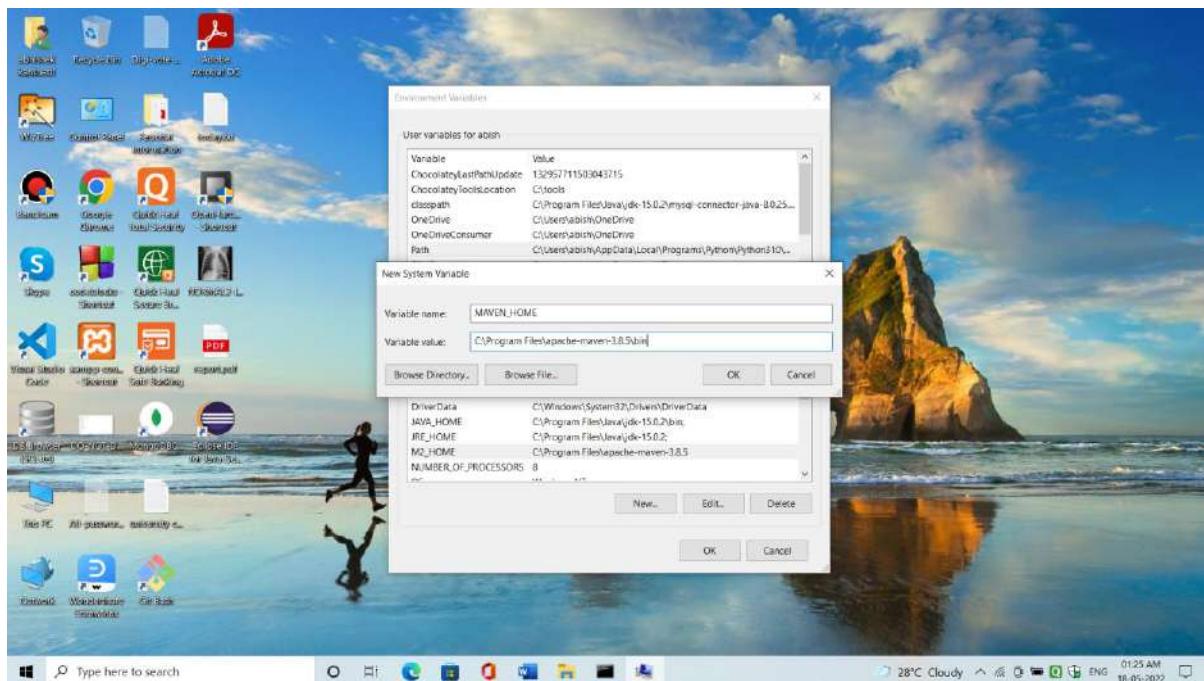
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Name: Abhishek Basavraj Kanshetti

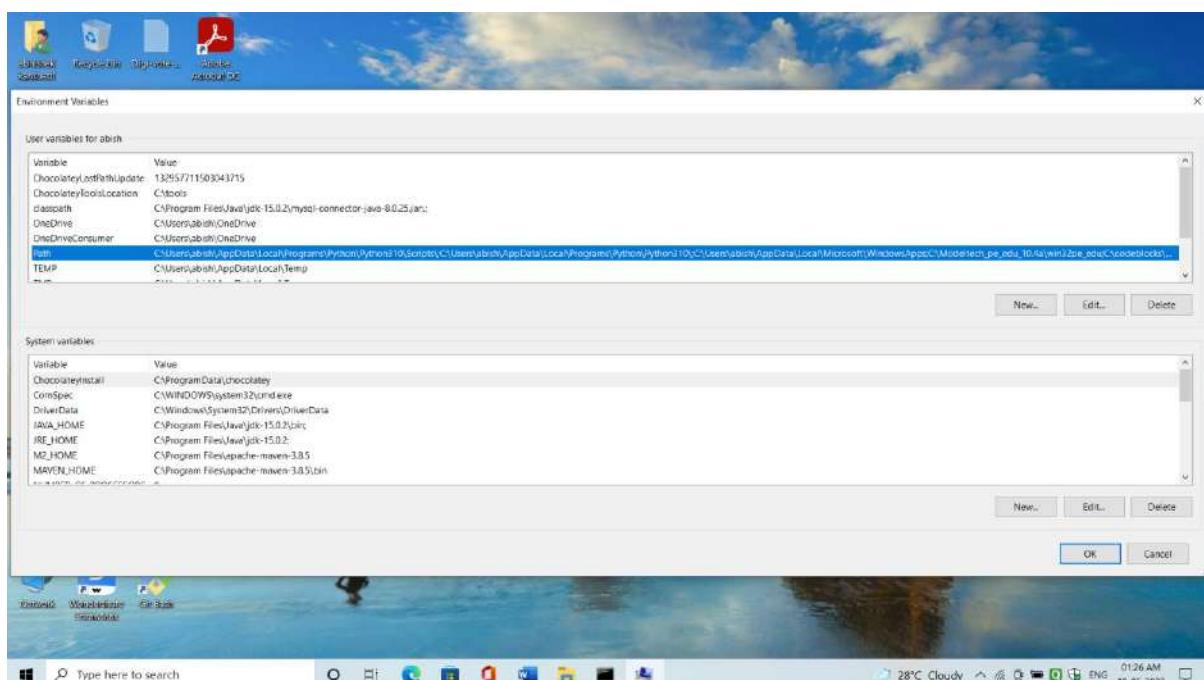
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



Added all Environment Variables and Path Variable Successfully as follow: -



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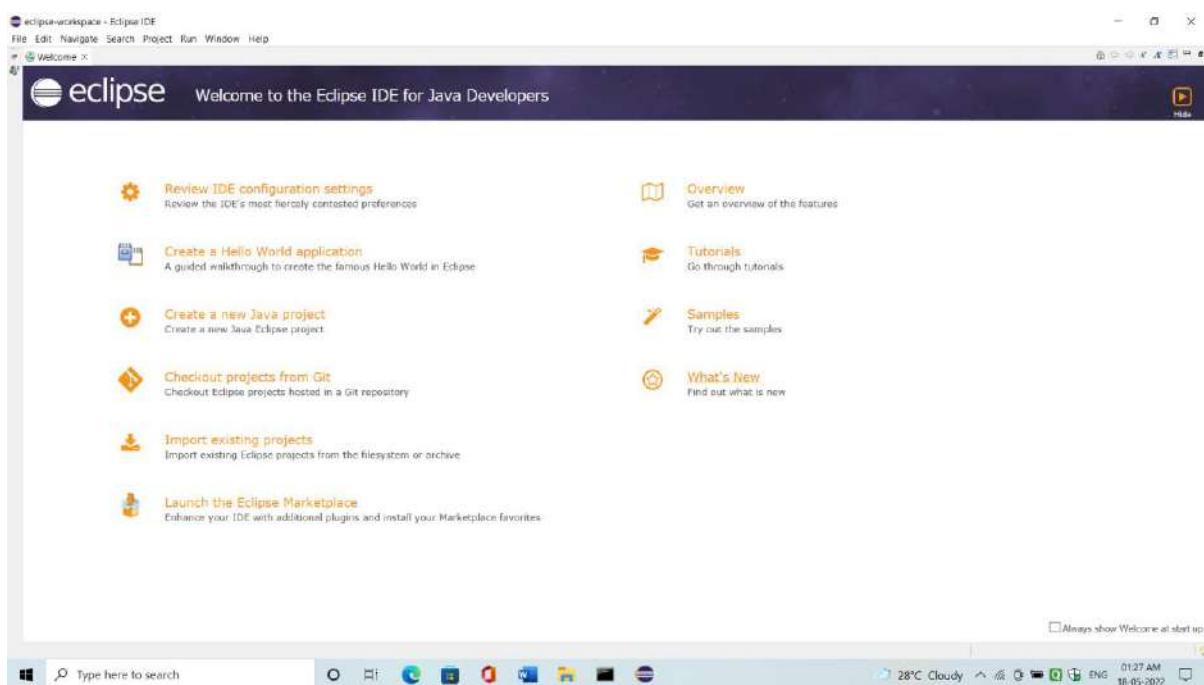
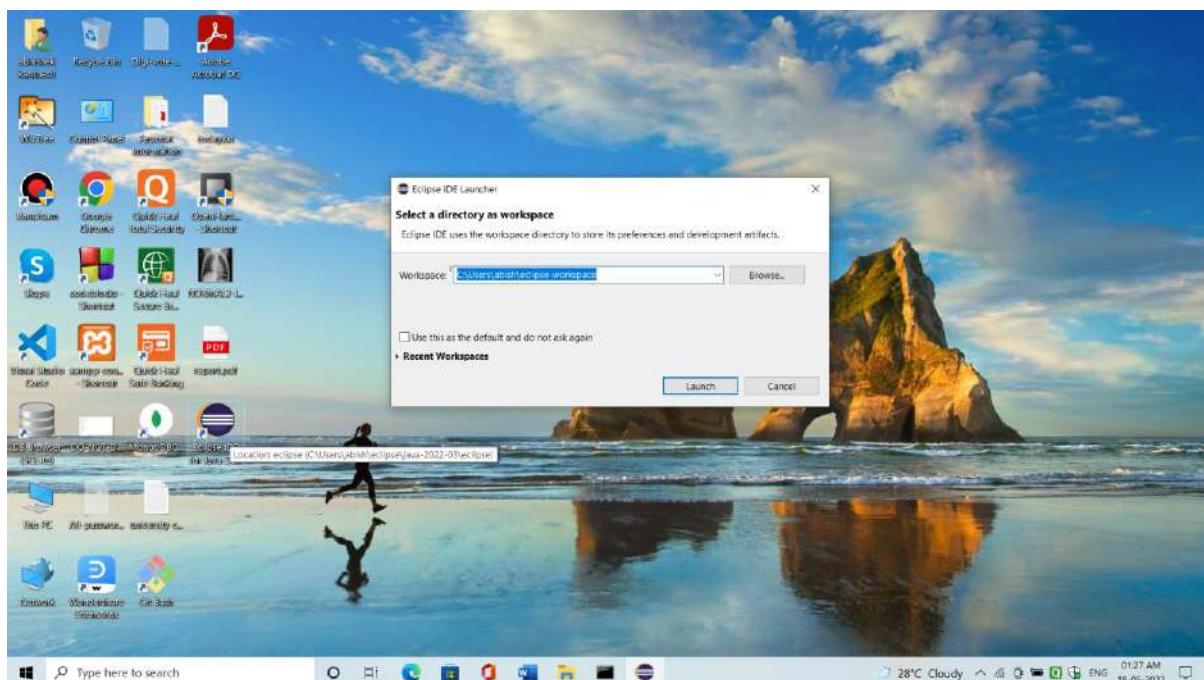
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Opening the Eclipse IDE as follow: -



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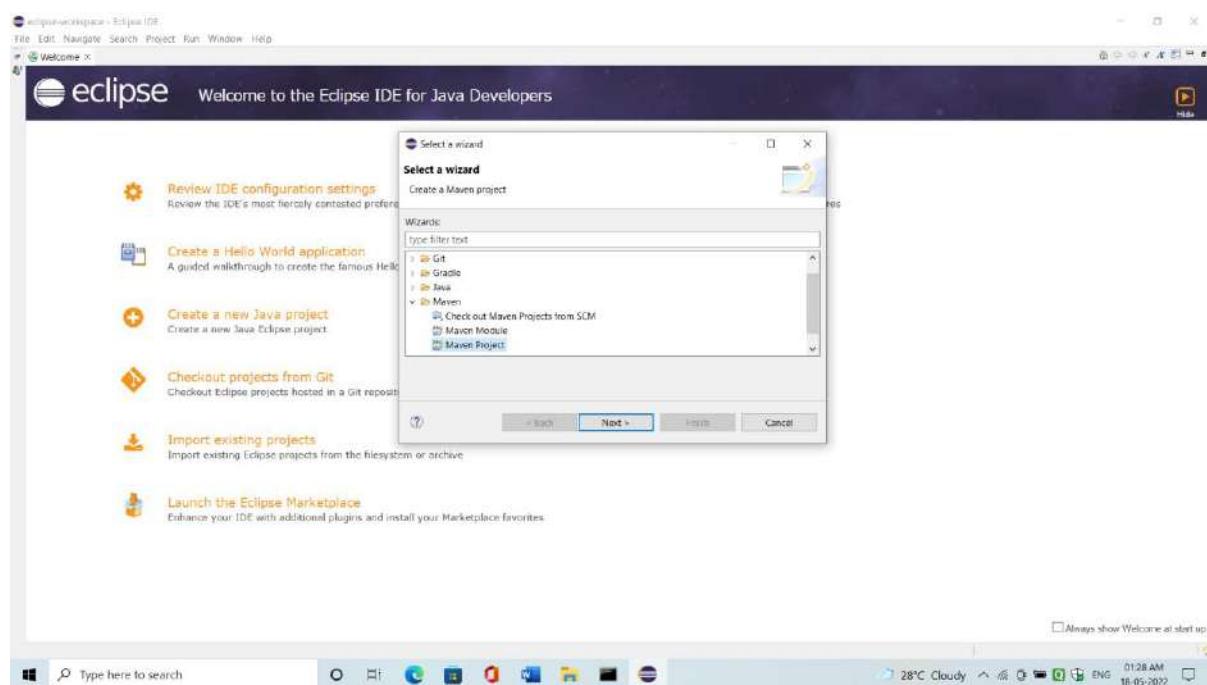
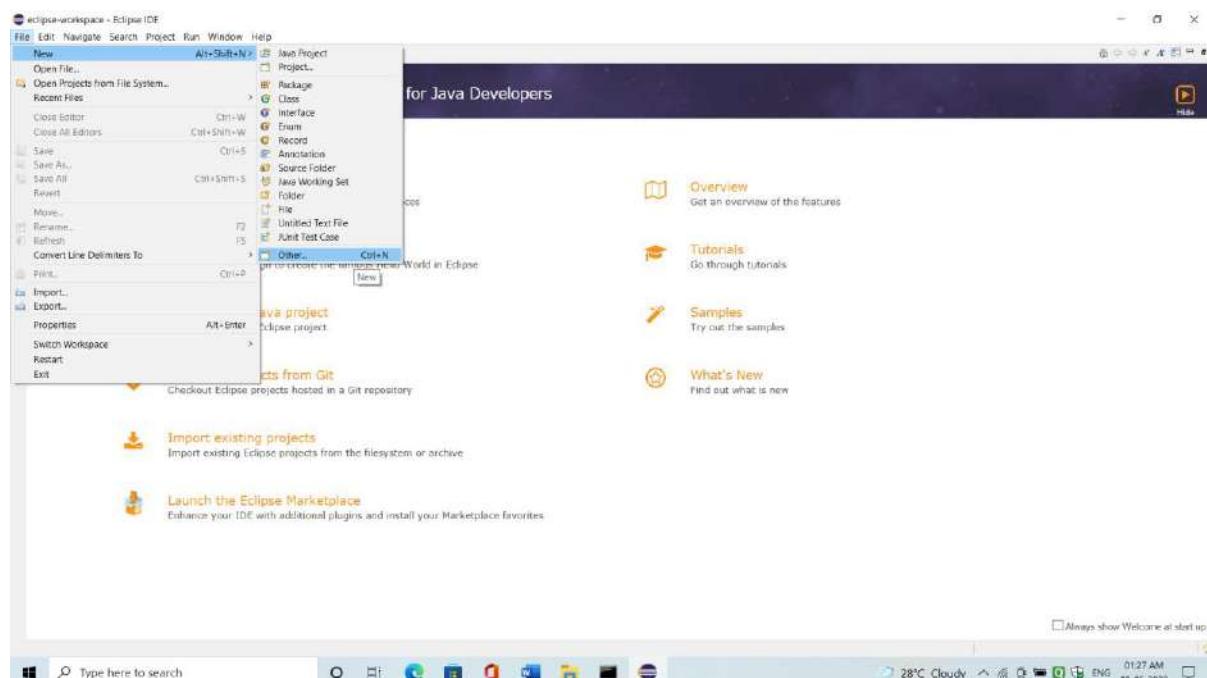
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Creating the Maven Project as follow: -



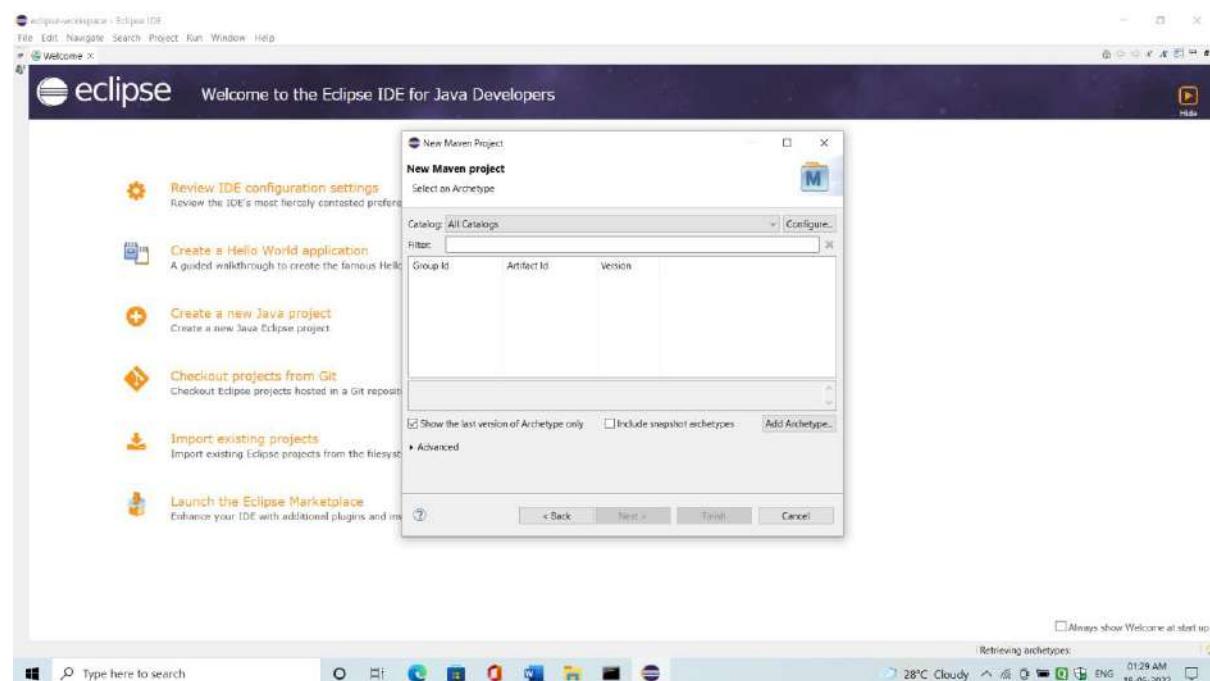
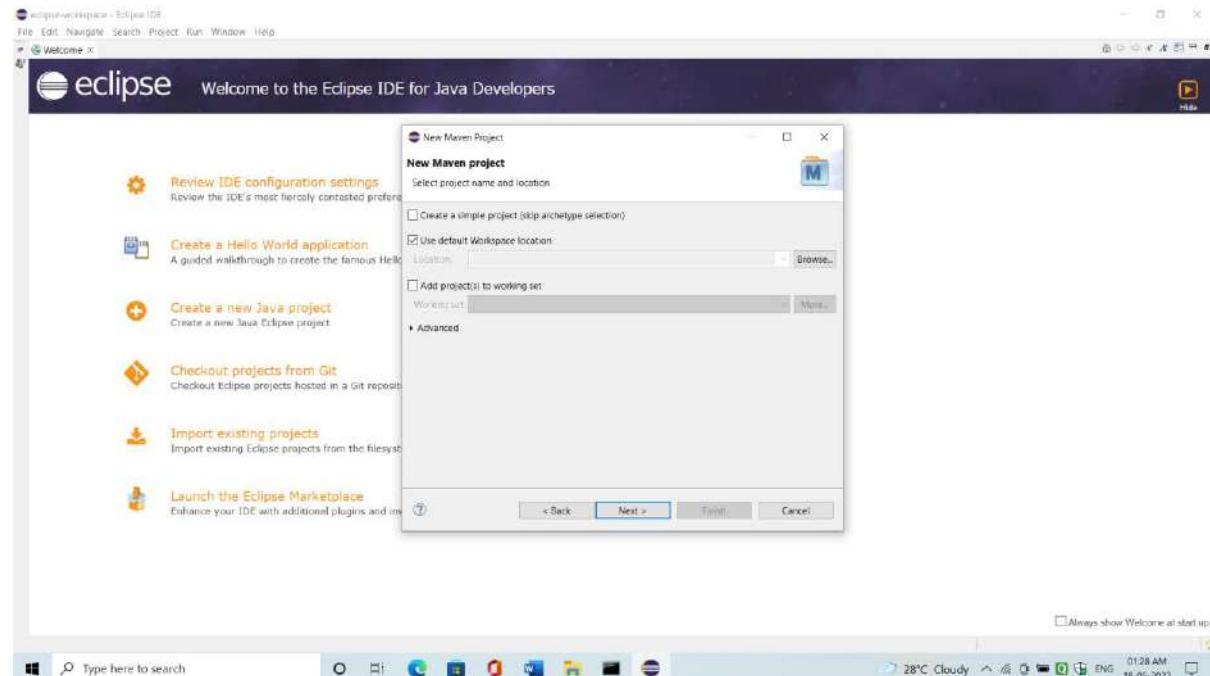
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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



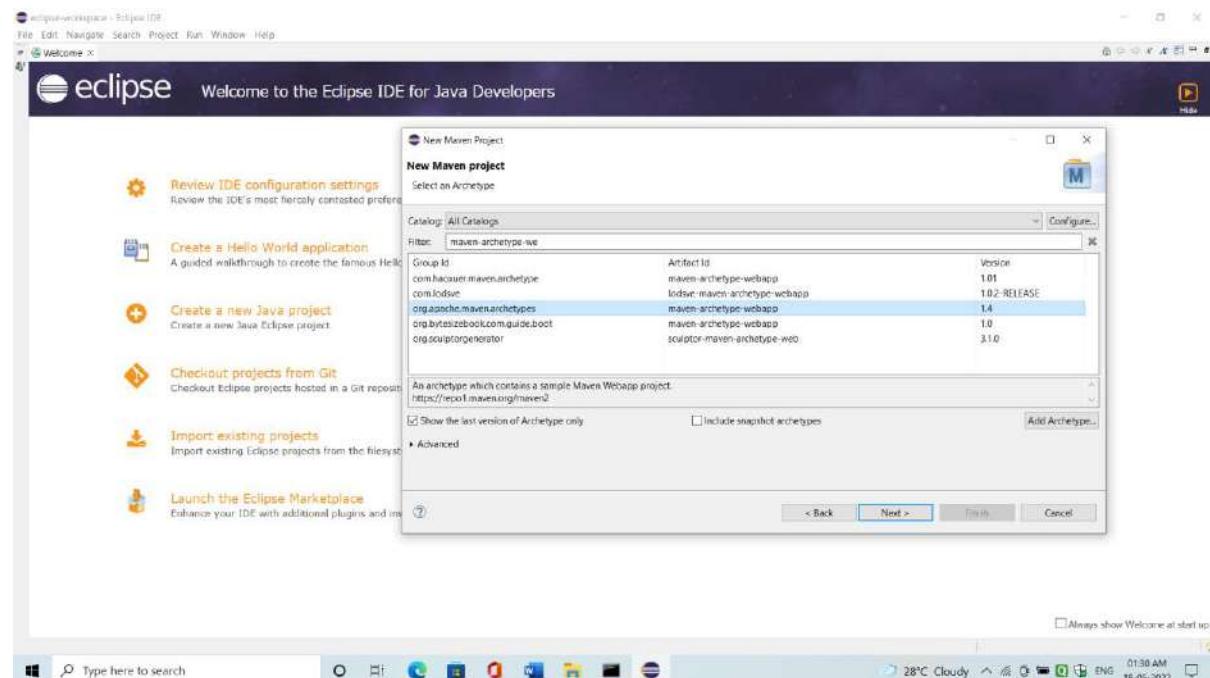
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Name: Abhishek Basavraj Kanshetti

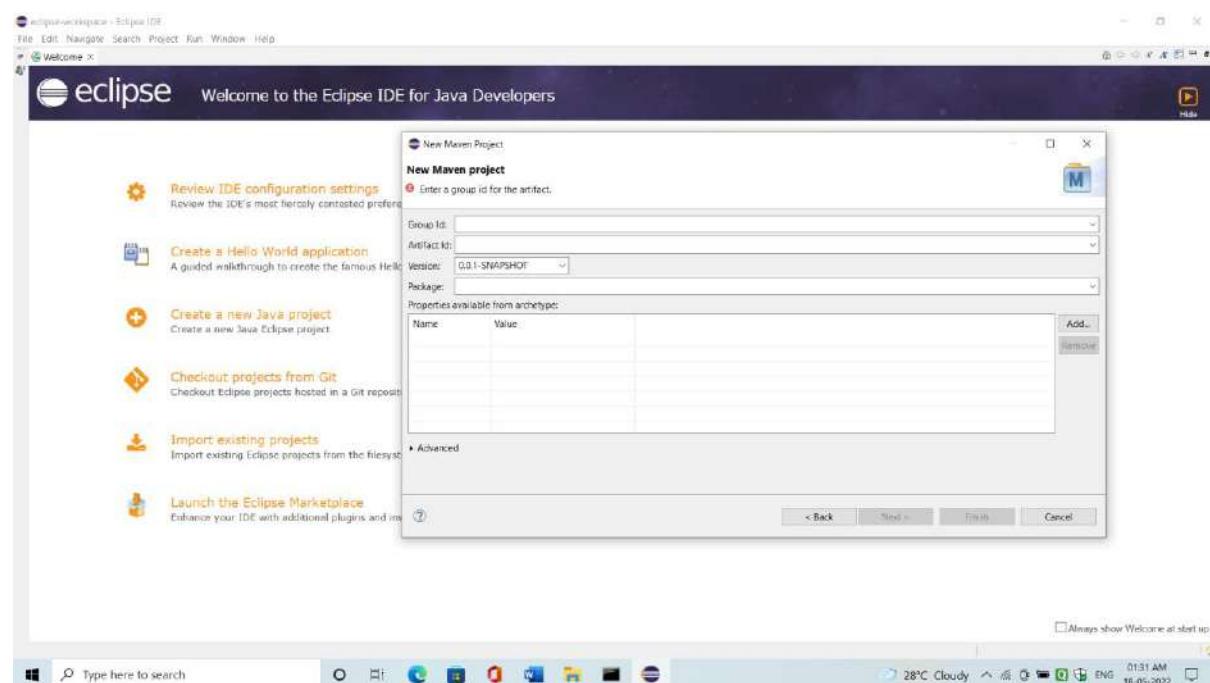
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Entering the Group ID as follow: -



Now Entering the Group ID and Artifact ID as follow: -



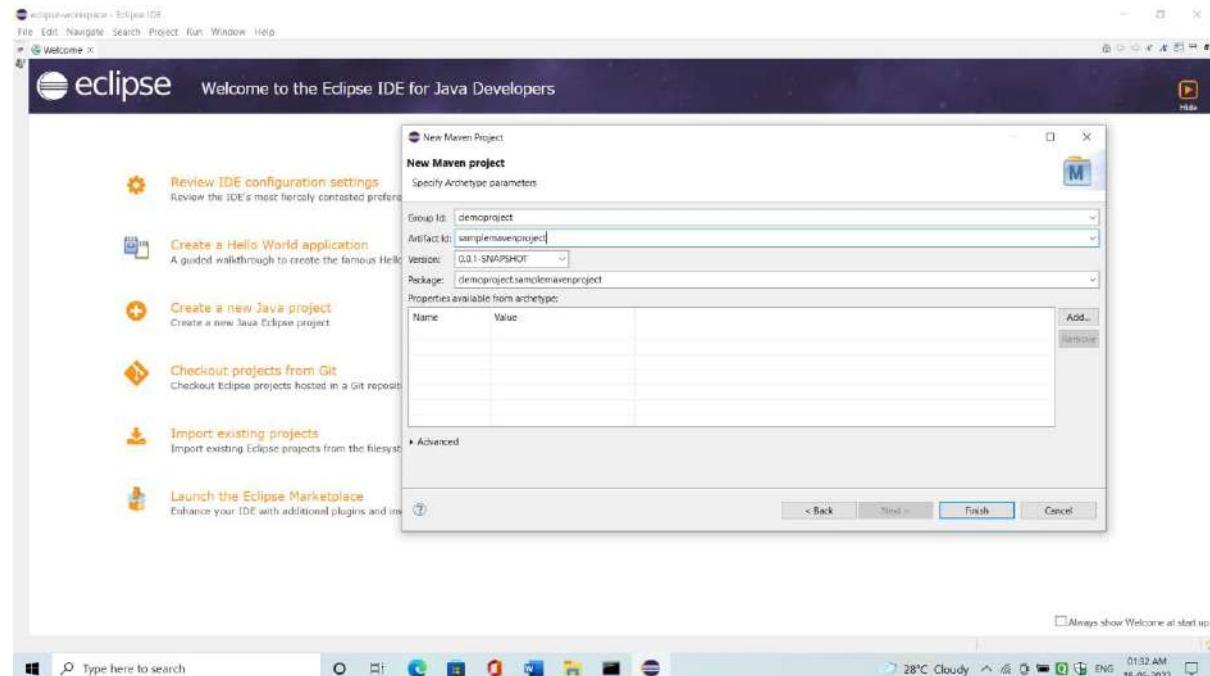
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Name: Abhishek Basavraj Kanshetti

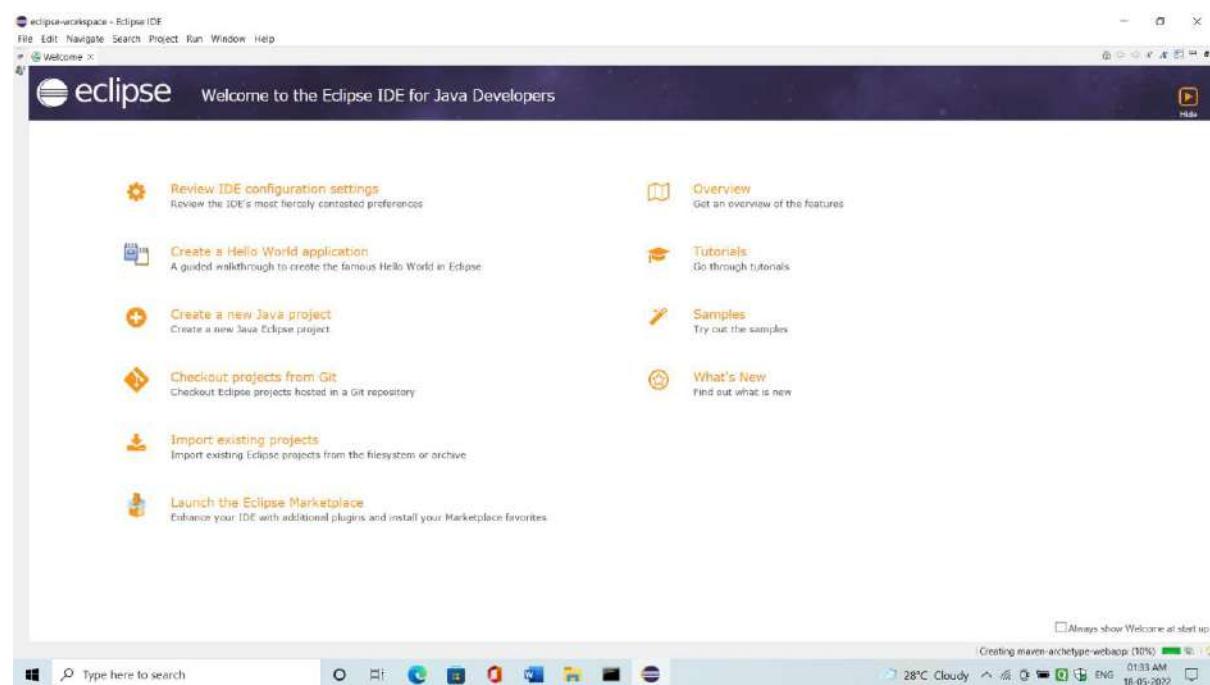
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



After click on finish: -



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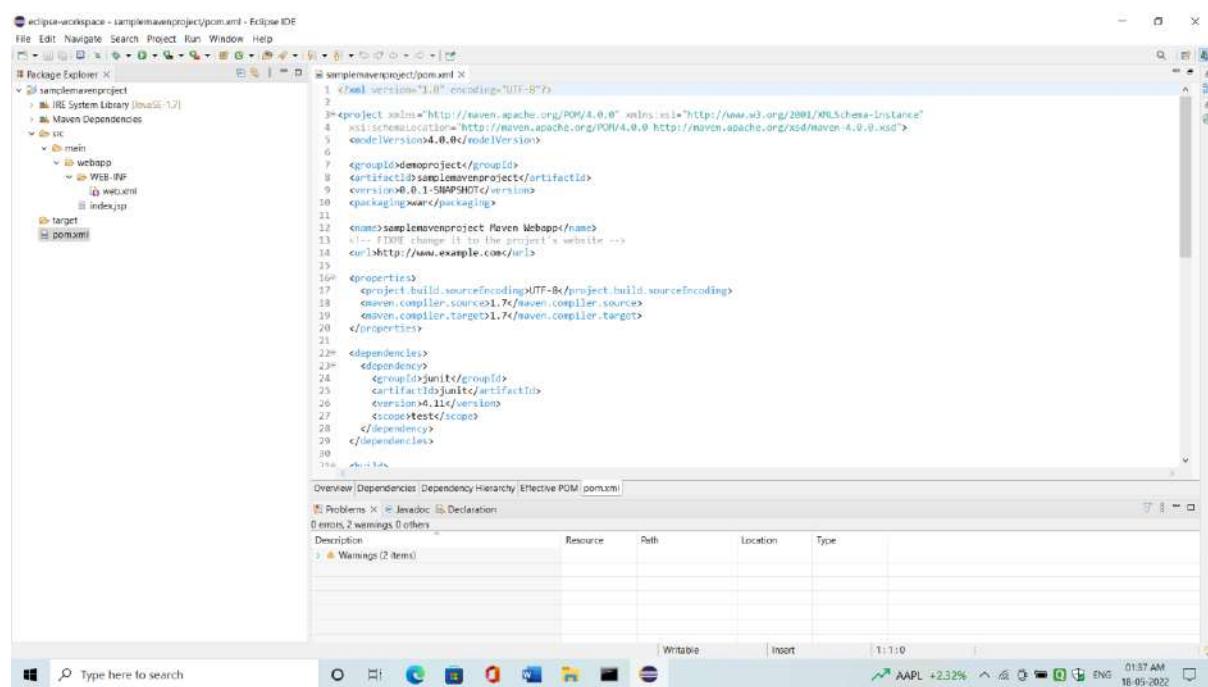
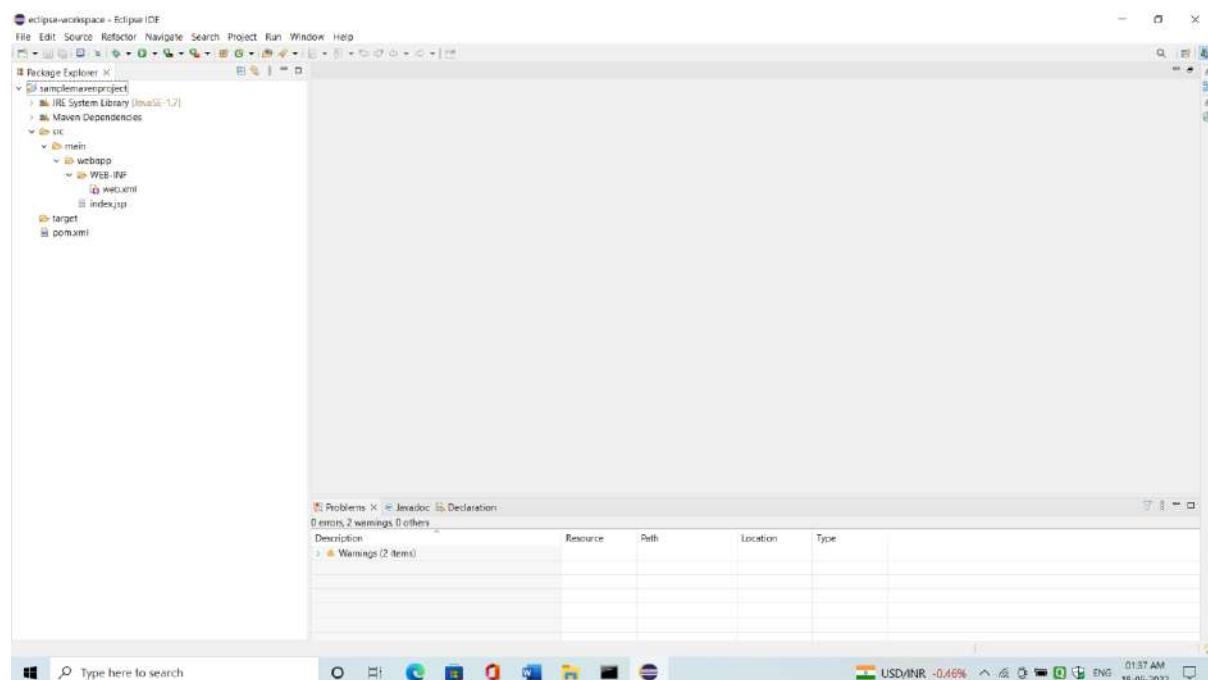
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Created a Maven Project Successfully as follow: -



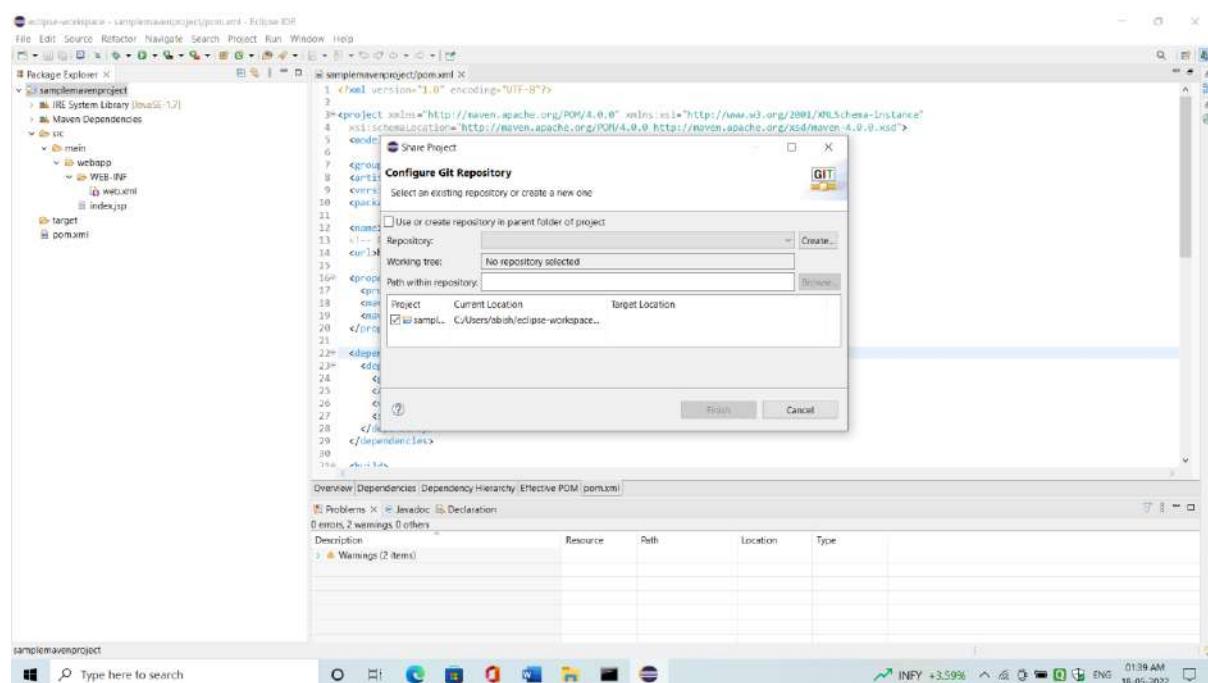
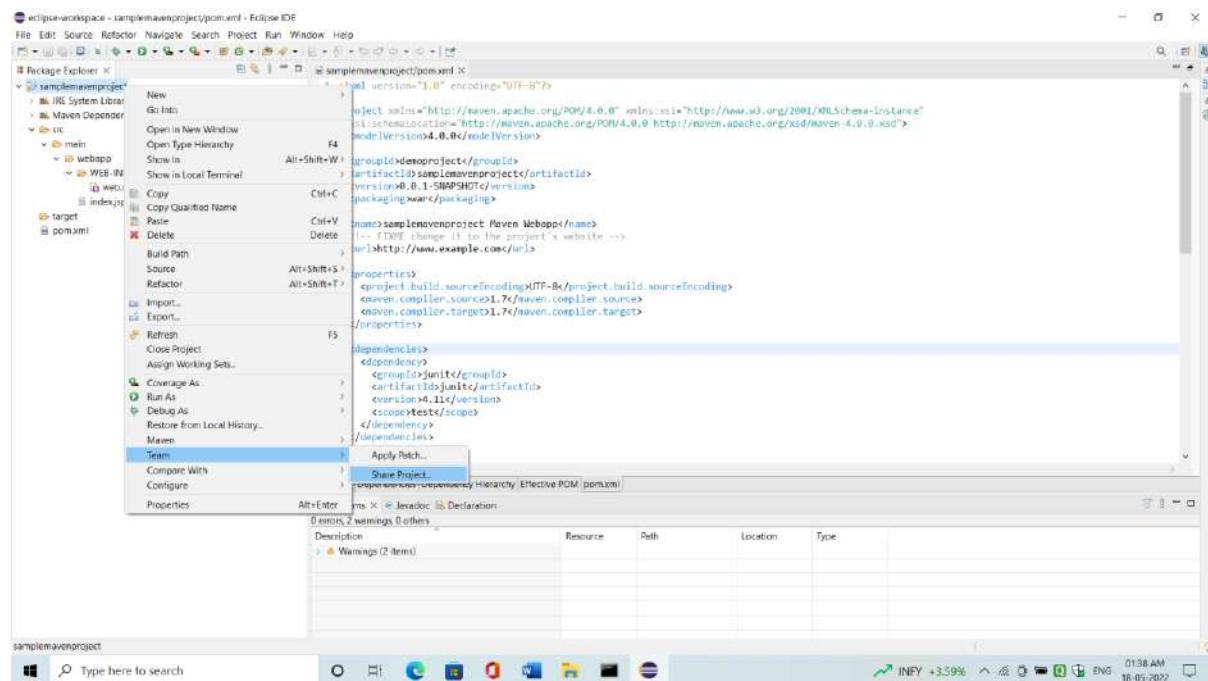
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

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Title: Automate Deployment using Jenkins plugin "Deploy to container"
Now we will upload this project on git by selecting following option: -



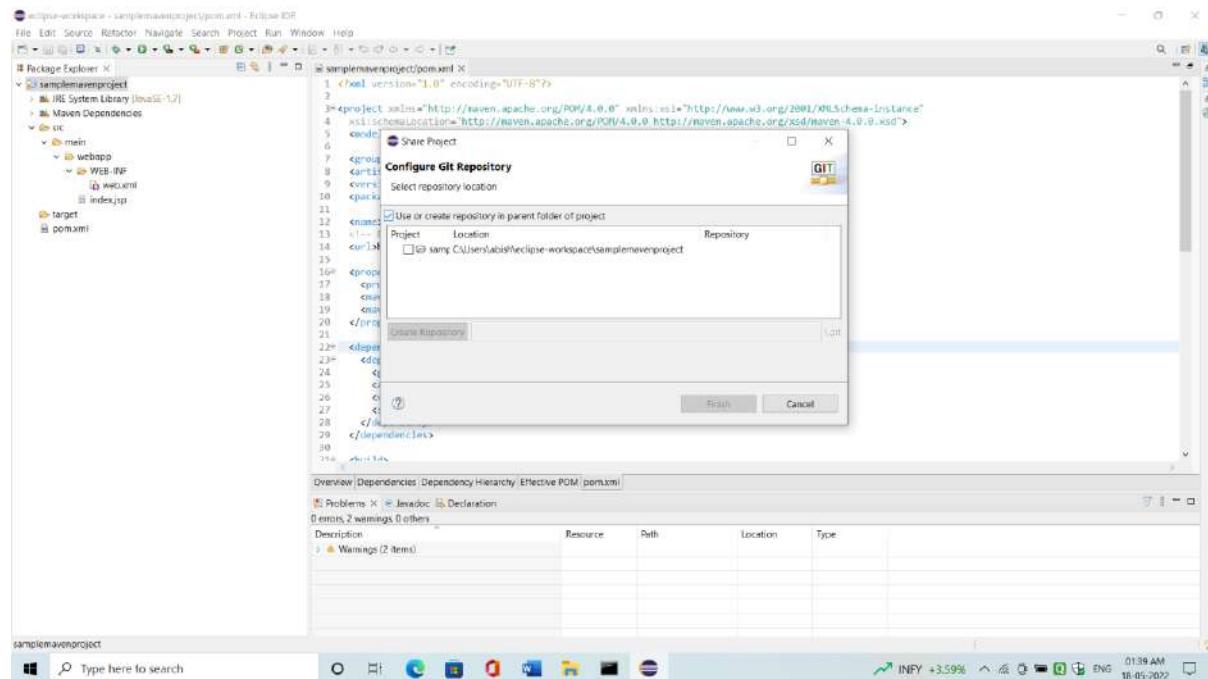
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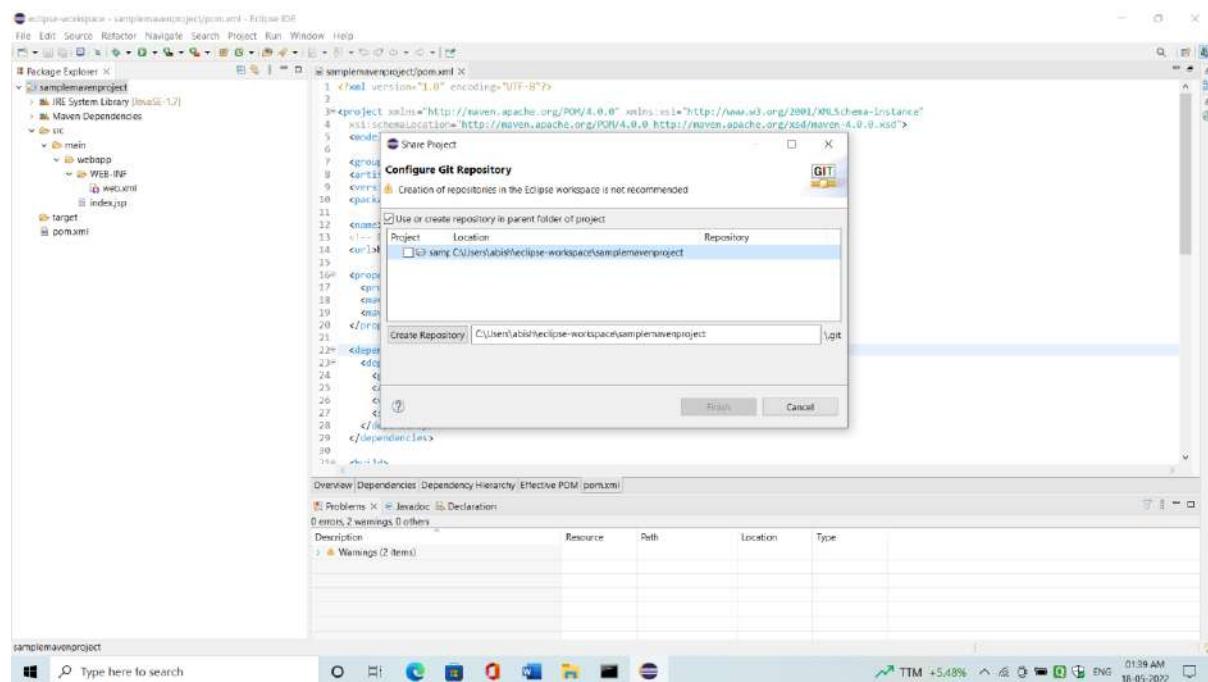
Roll No: 22

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Title: Automate Deployment using Jenkins plugin "Deploy to container"
We need check the box as follow: -



We need to click on Create Repository: -



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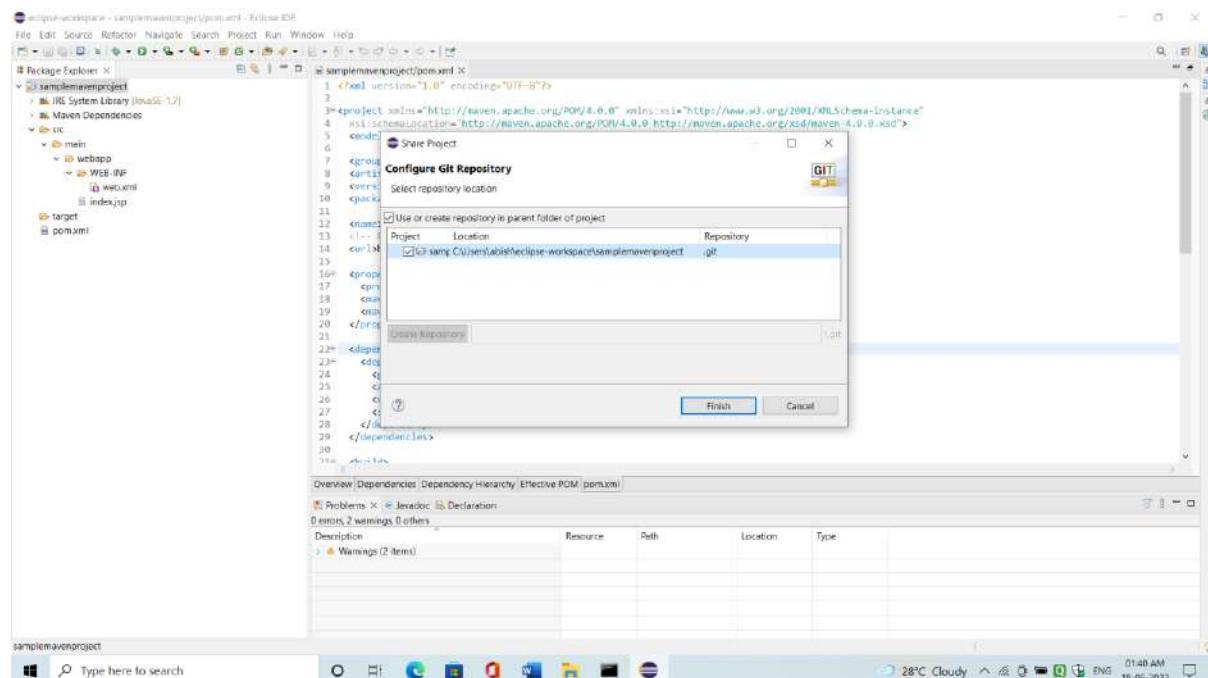
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Roll No: 22

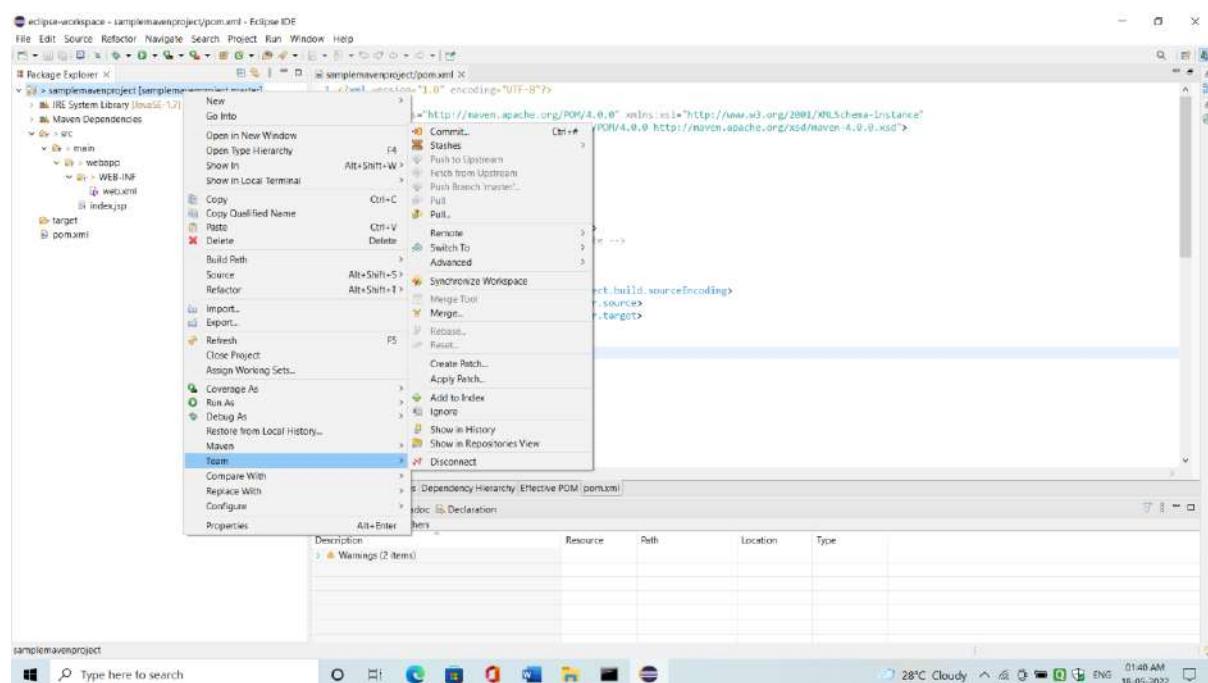
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

After click on create repository: -



After click on finish: -



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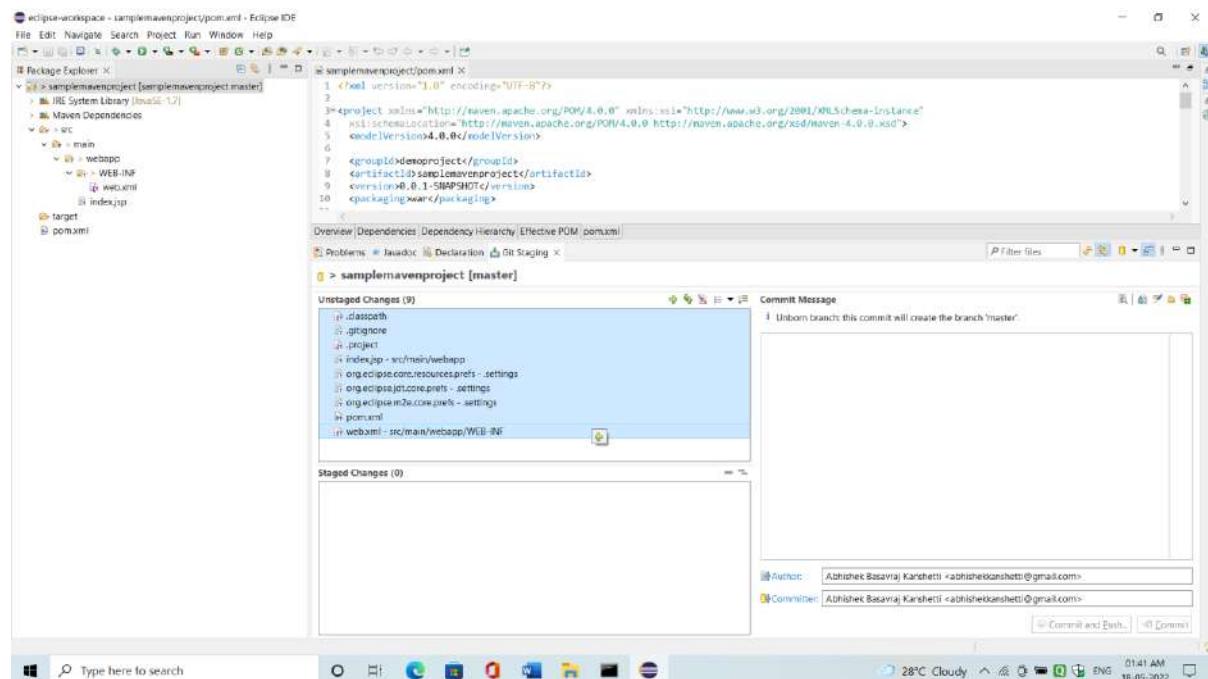
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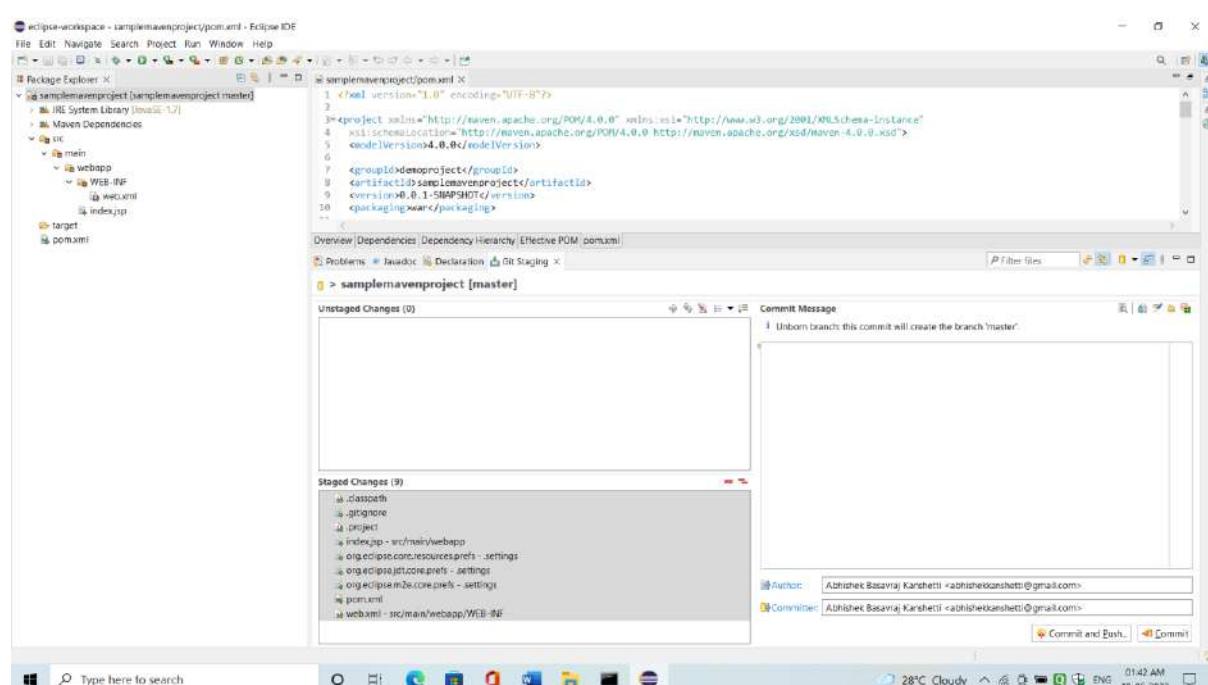
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

After clicking on commit (first option), Select all files in unstaged changes(ctrl+a) as follow:-



Drag them to staged changes: -



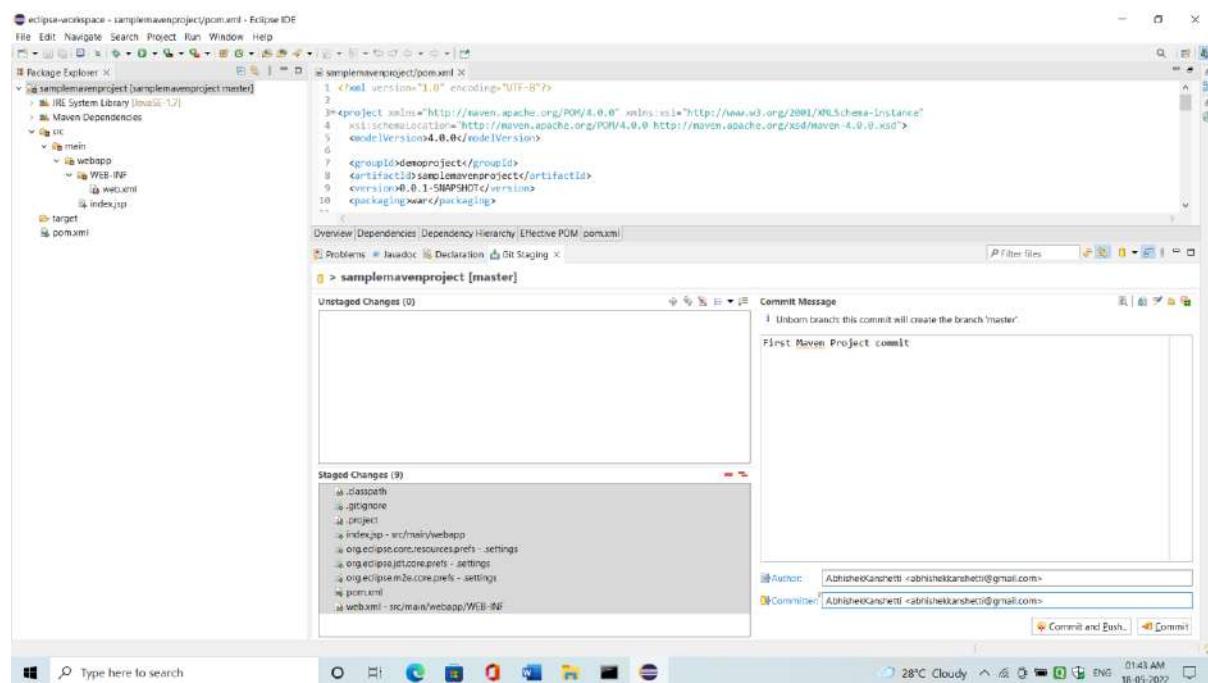
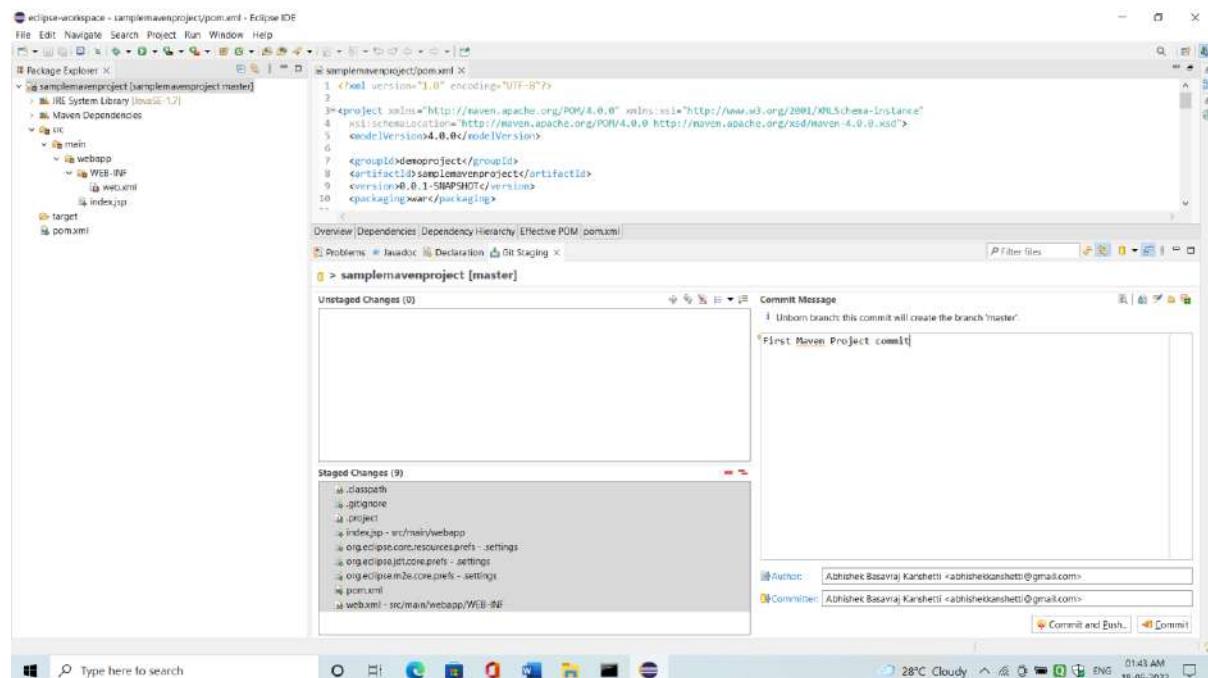
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Title: Automate Deployment using Jenkins plugin "Deploy to container"
Give commit message: -



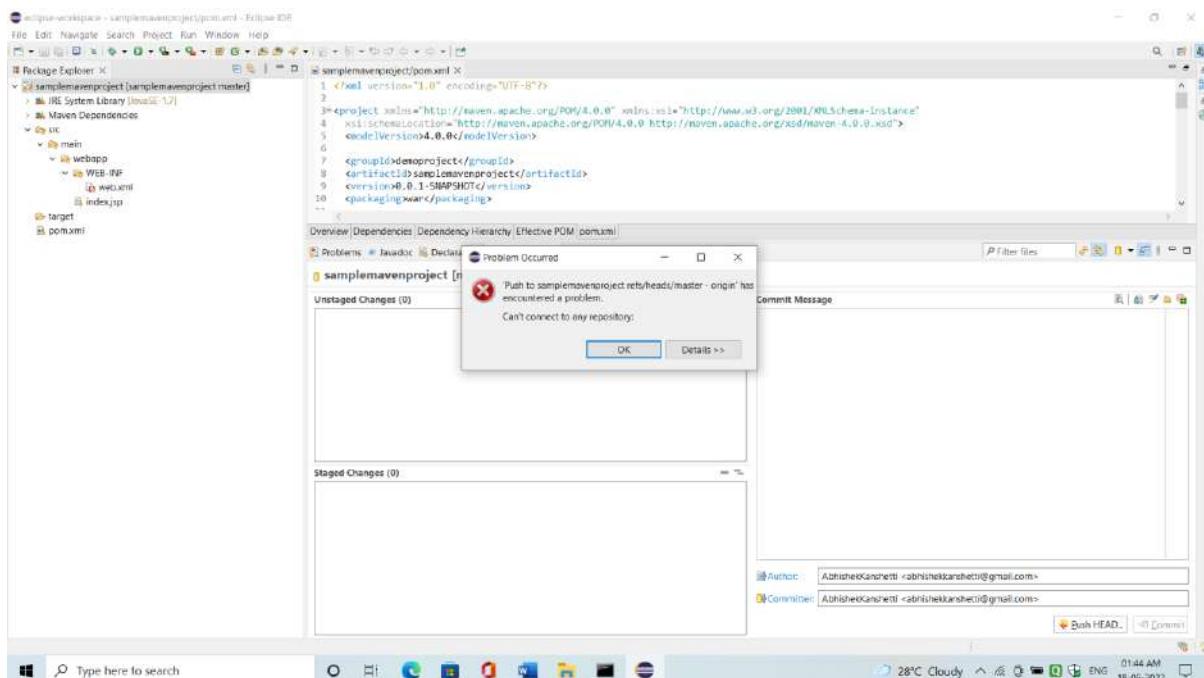
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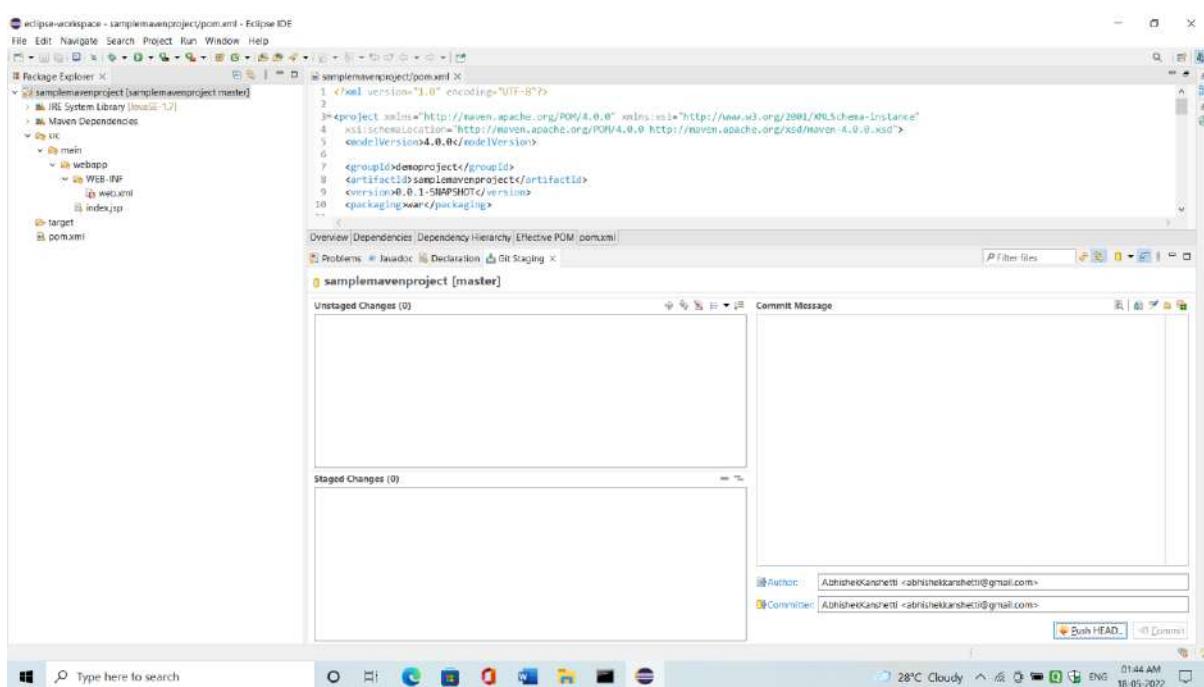
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Now click on commit and push:-



Click on ok:-



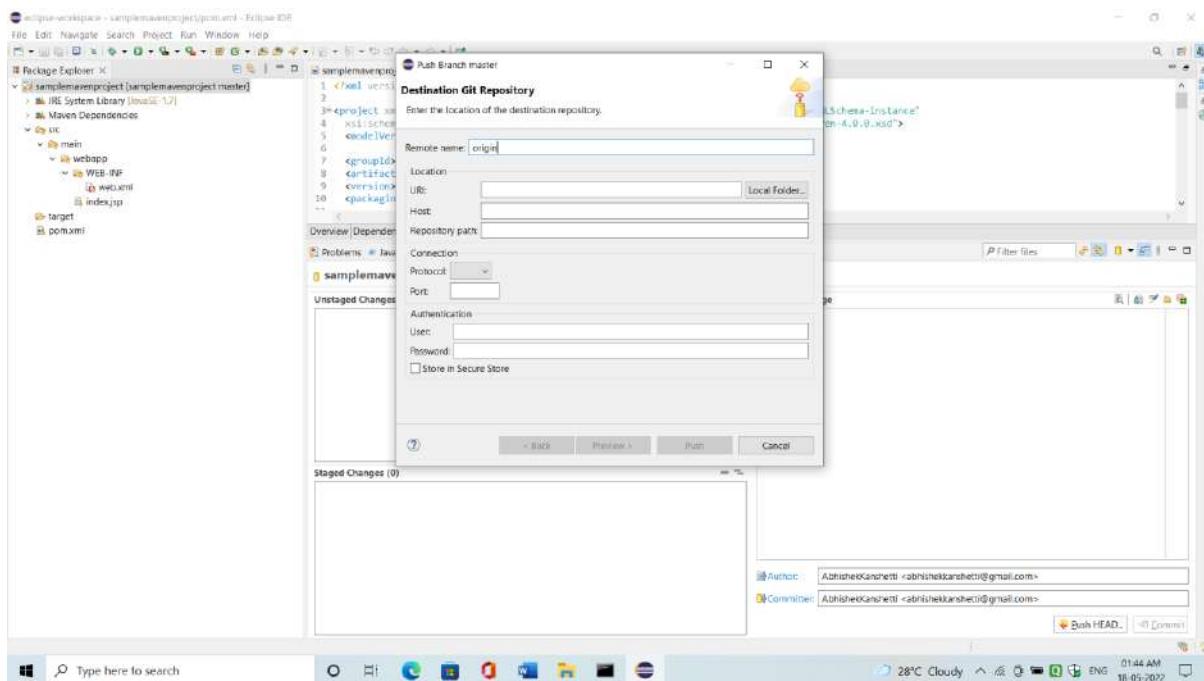
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Name: Abhishek Basavraj Kanshetti

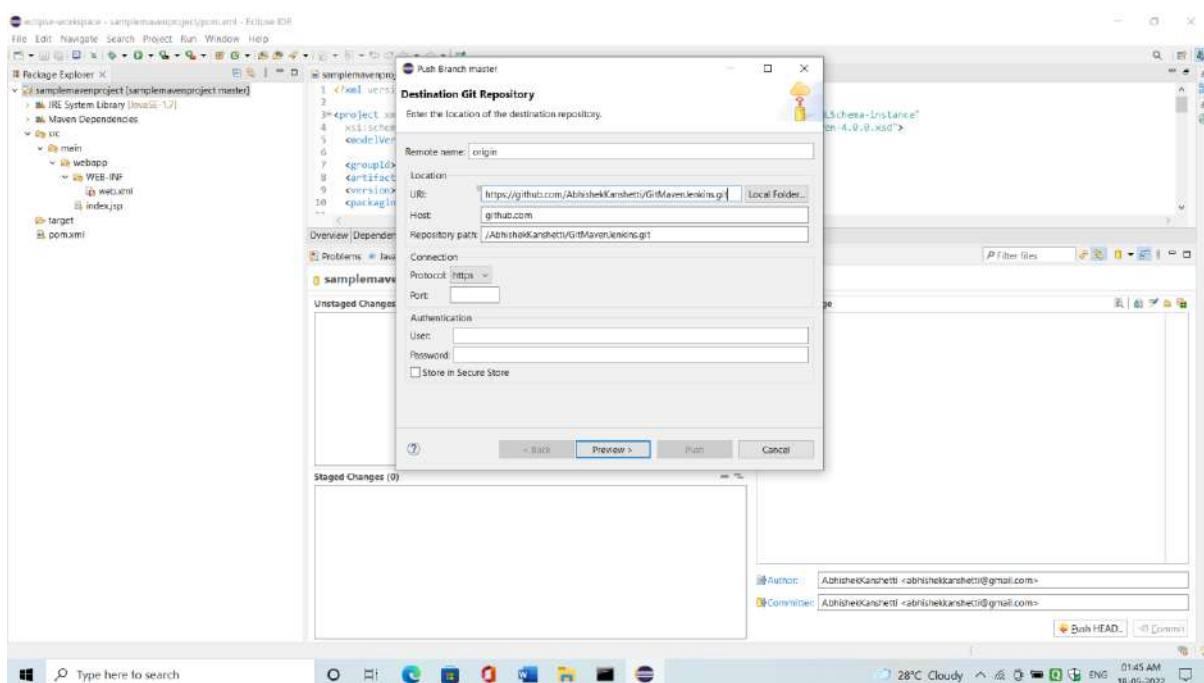
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Now click on push head: -



Paste git URL of repository which was created earlier: -



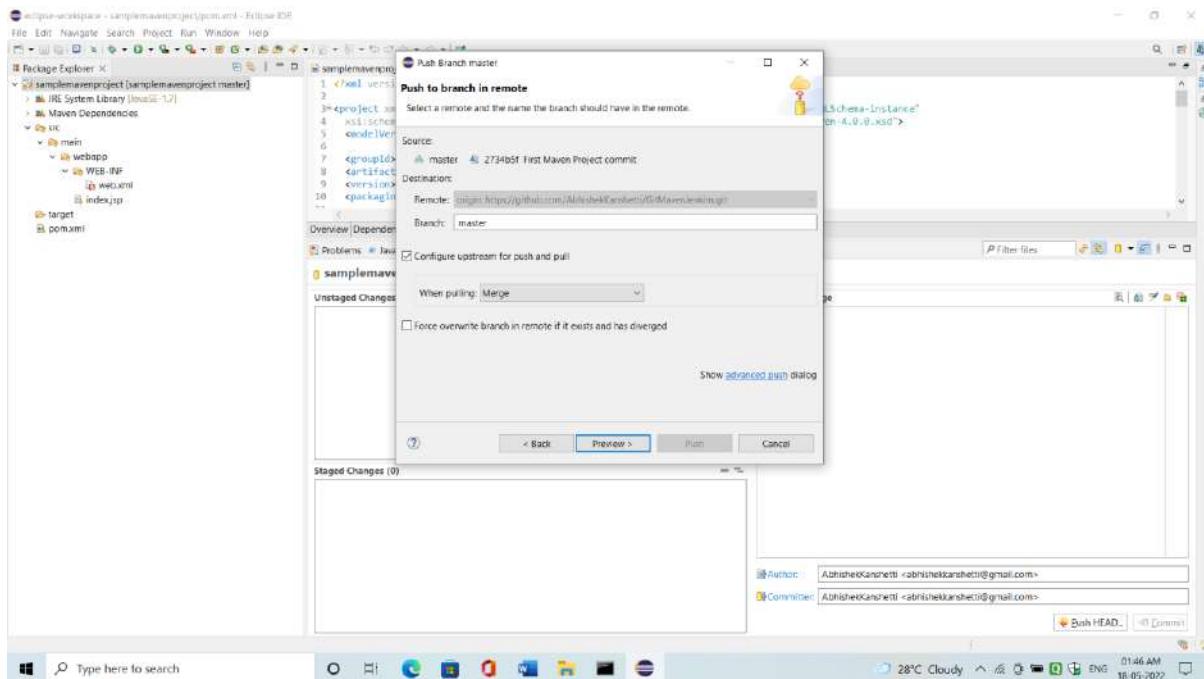
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Name: Abhishek Basavraj Kanshetti

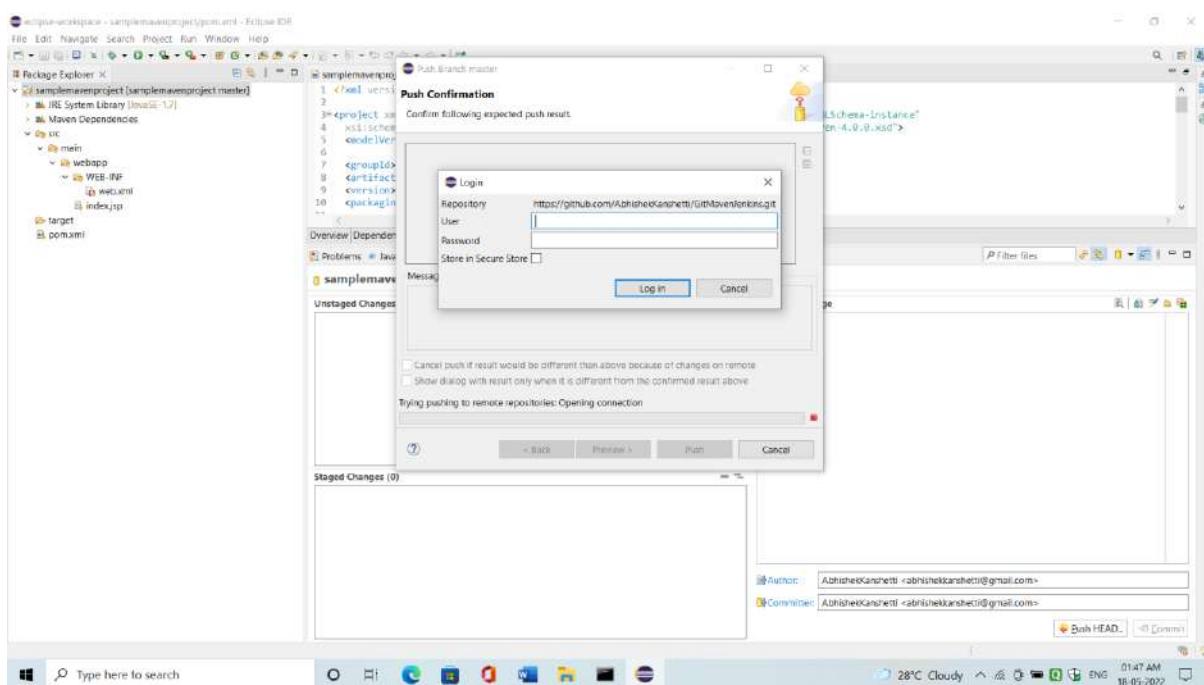
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ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Now select on preview: -



Again, click on preview: -



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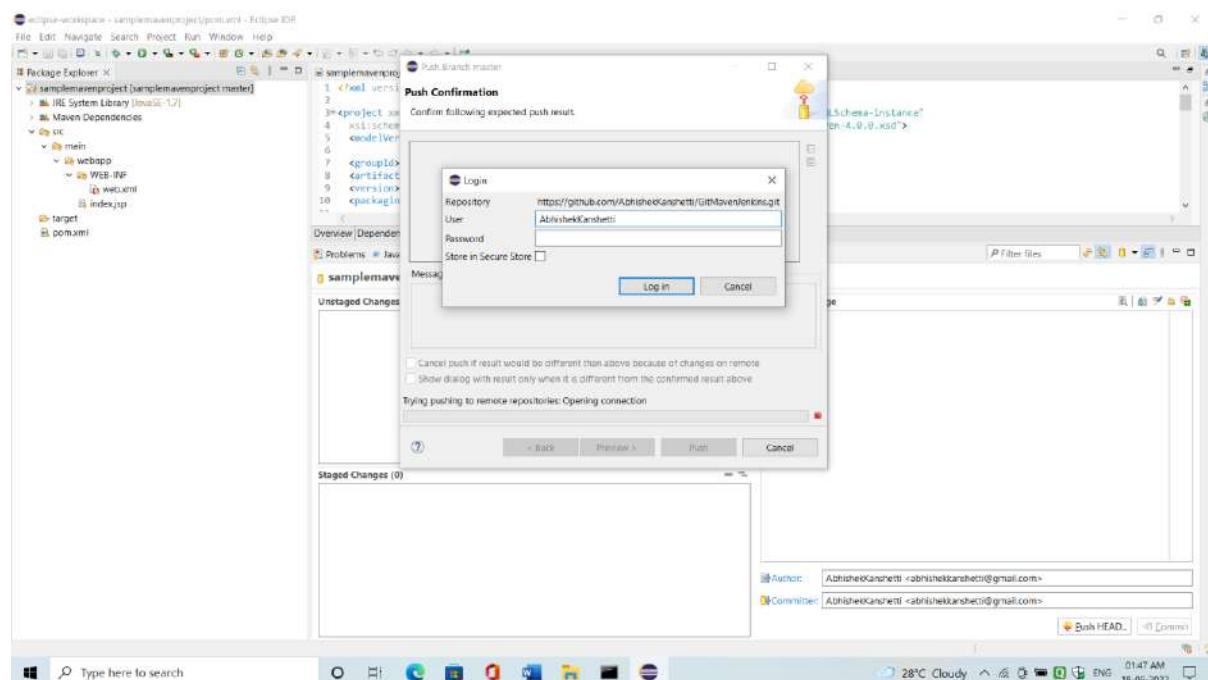
Name: Abhishek Basavraj Kanshetti

Roll No: 22

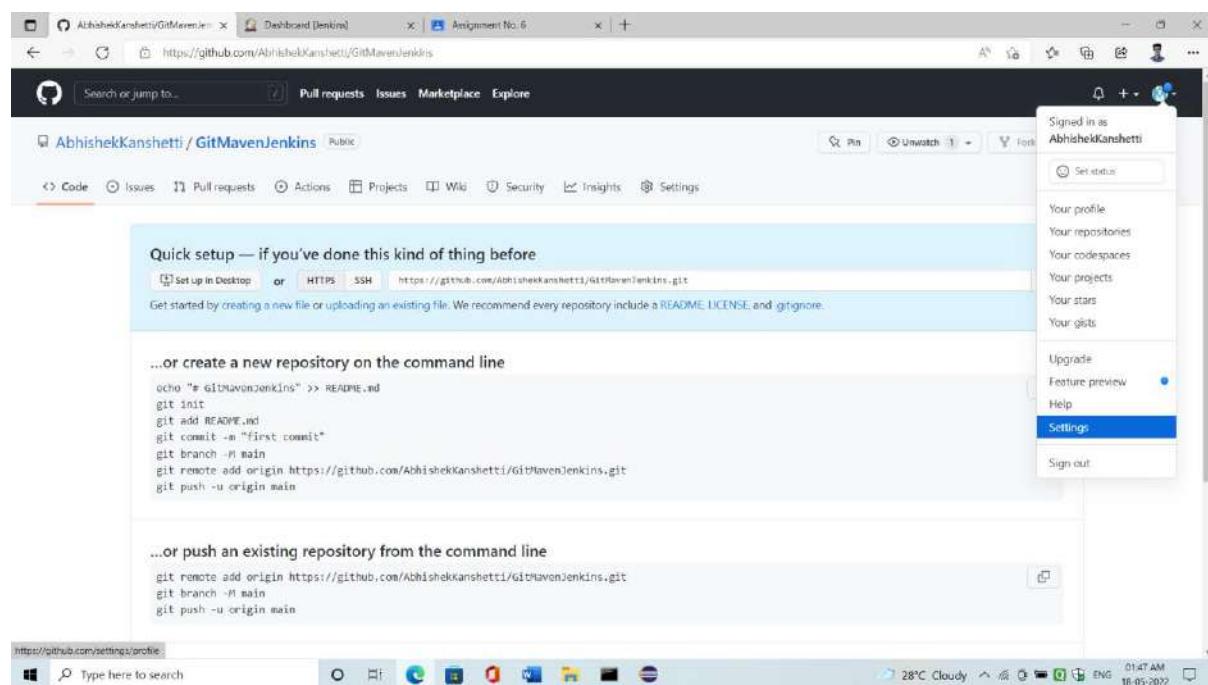
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Enter UserName and Password: -



For Password, Create the token on GitHub as follow: -



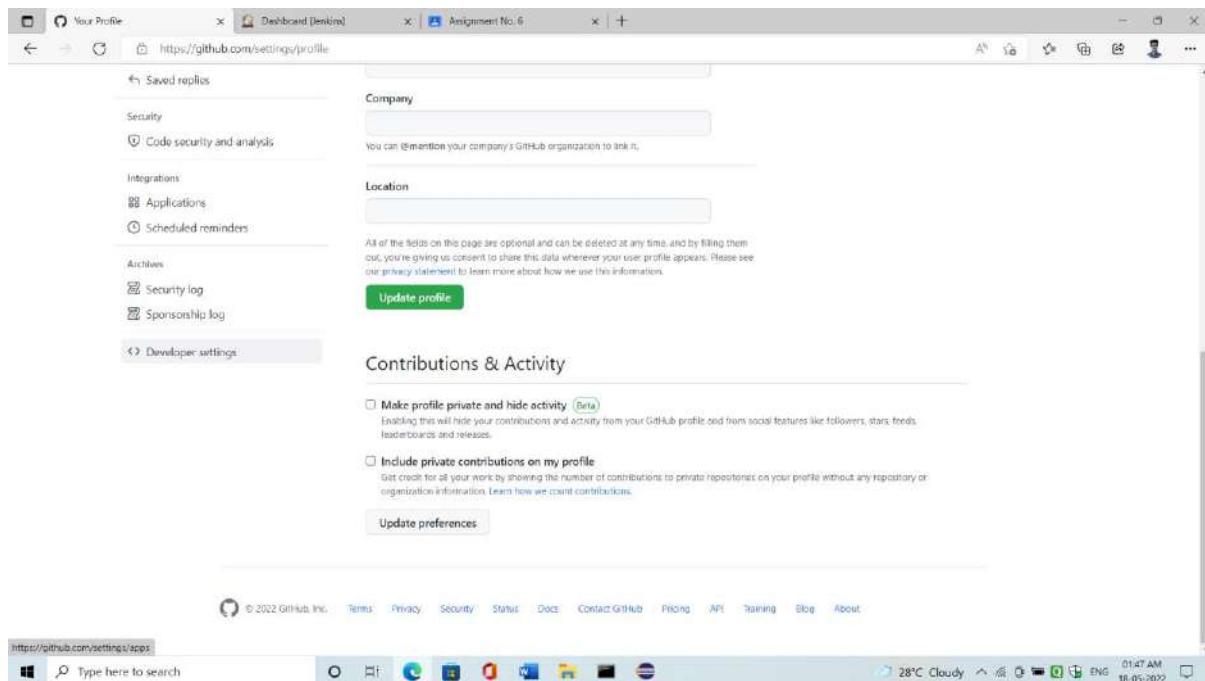
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Name: Abhishek Basavraj Kanshetti

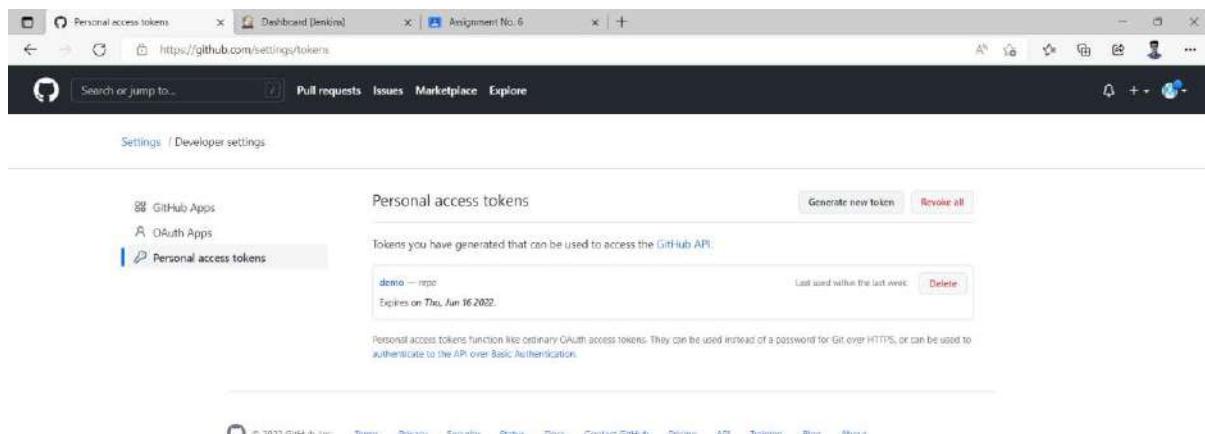
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



This screenshot shows the GitHub profile settings page. The left sidebar includes options like 'Saved replies', 'Security', 'Code security and analysis', 'Integrations', 'Applications', 'Scheduled reminders', 'Archives', 'Security log', and 'Sponsorship log'. The main area is titled 'Contributions & Activity' and contains two checkboxes: 'Make profile private and hide activity' (beta) and 'Include private contributions on my profile'. At the bottom is a 'Update preferences' button. The footer includes links for 'Terms', 'Privacy', 'Security', 'Status', 'Docs', 'Contact GitHub', 'Pricing', 'API', 'Training', 'Blog', and 'About'. The status bar at the bottom right shows '28°C Cloudy', '01:47 AM', 'ENG', and the date '18-05-2022'.



This screenshot shows the GitHub 'Personal access tokens' settings page. The left sidebar has 'GitHub Apps', 'OAuth Apps', and 'Personal access tokens' selected. The main area is titled 'Personal access tokens' and shows a table with one entry: 'demo — repo' (Last used within the last week, Delete). A note below explains that personal access tokens function like OAuth access tokens. The footer includes links for 'Terms', 'Privacy', 'Security', 'Status', 'Docs', 'Contact GitHub', 'Pricing', 'API', 'Training', 'Blog', and 'About'. The status bar at the bottom right shows '28°C Cloudy', '01:47 AM', 'ENG', and the date '18-05-2022'.



This screenshot shows the GitHub 'tokens/new' page. The left sidebar has 'GitHub Apps', 'OAuth Apps', and 'Personal access tokens' selected. The main area is titled 'Personal access tokens' and shows a table with one entry: 'demo — repo' (Last used within the last week, Delete). A note below explains that personal access tokens function like OAuth access tokens. The footer includes links for 'Terms', 'Privacy', 'Security', 'Status', 'Docs', 'Contact GitHub', 'Pricing', 'API', 'Training', 'Blog', and 'About'. The status bar at the bottom right shows '28°C Cloudy', '01:49 AM', 'ENG', and the date '18-05-2022'.

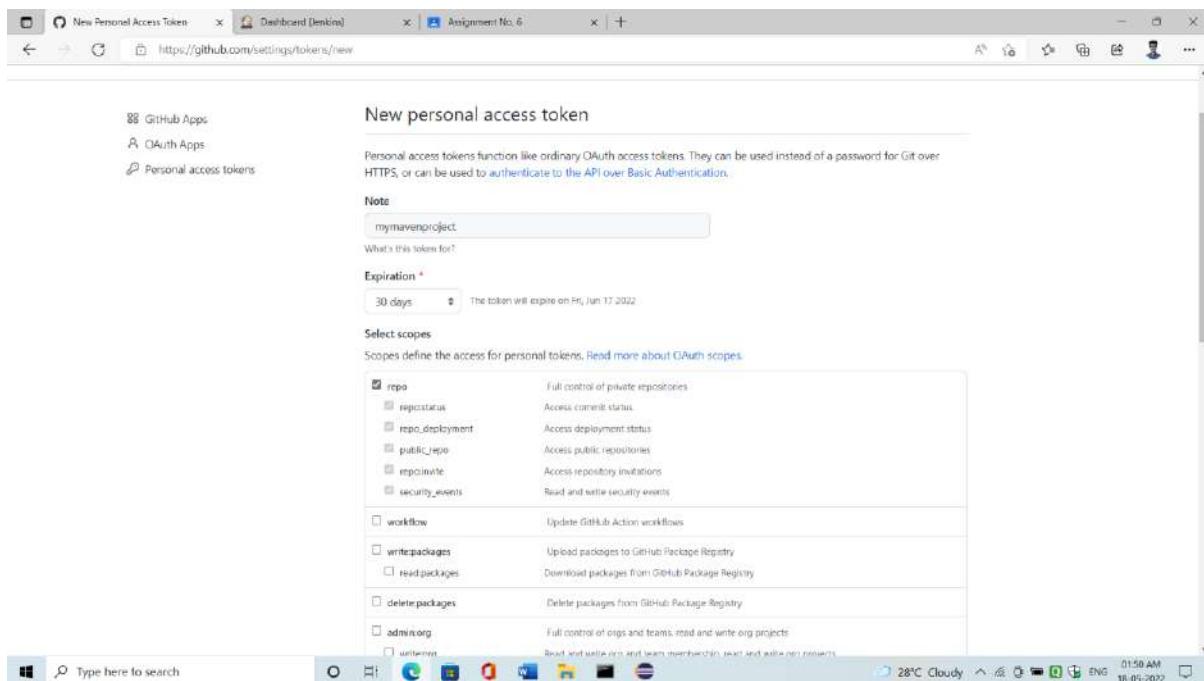
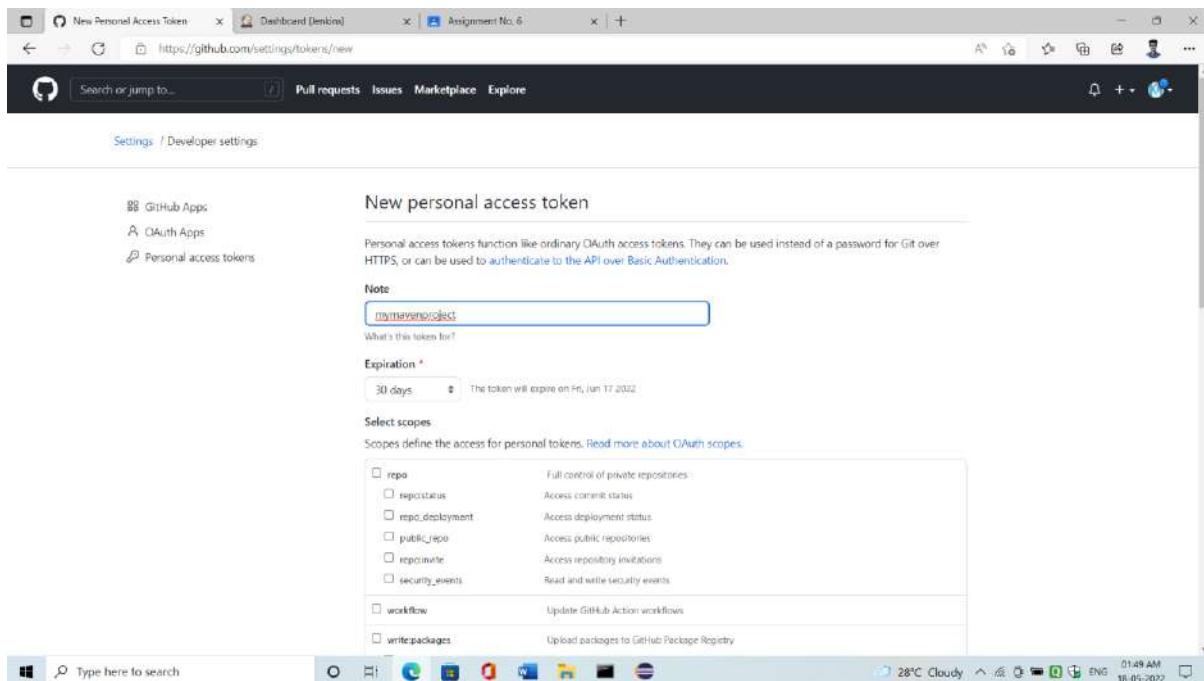
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Title: Automate Deployment using Jenkins plugin "Deploy to container"



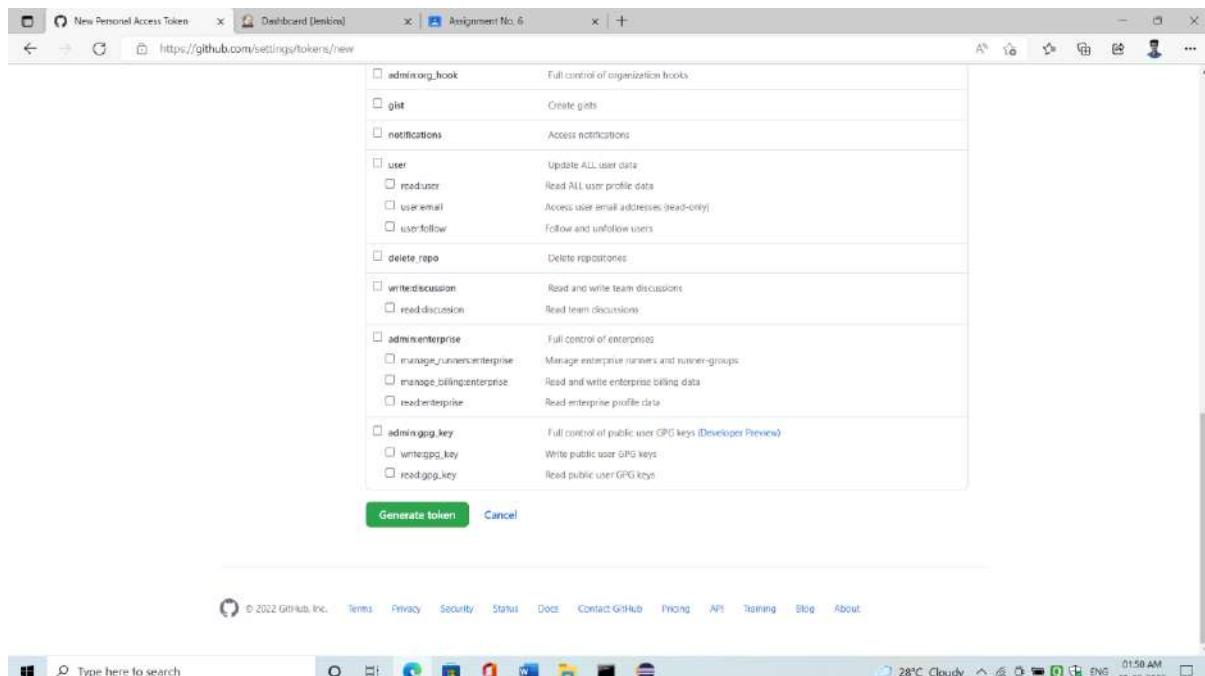
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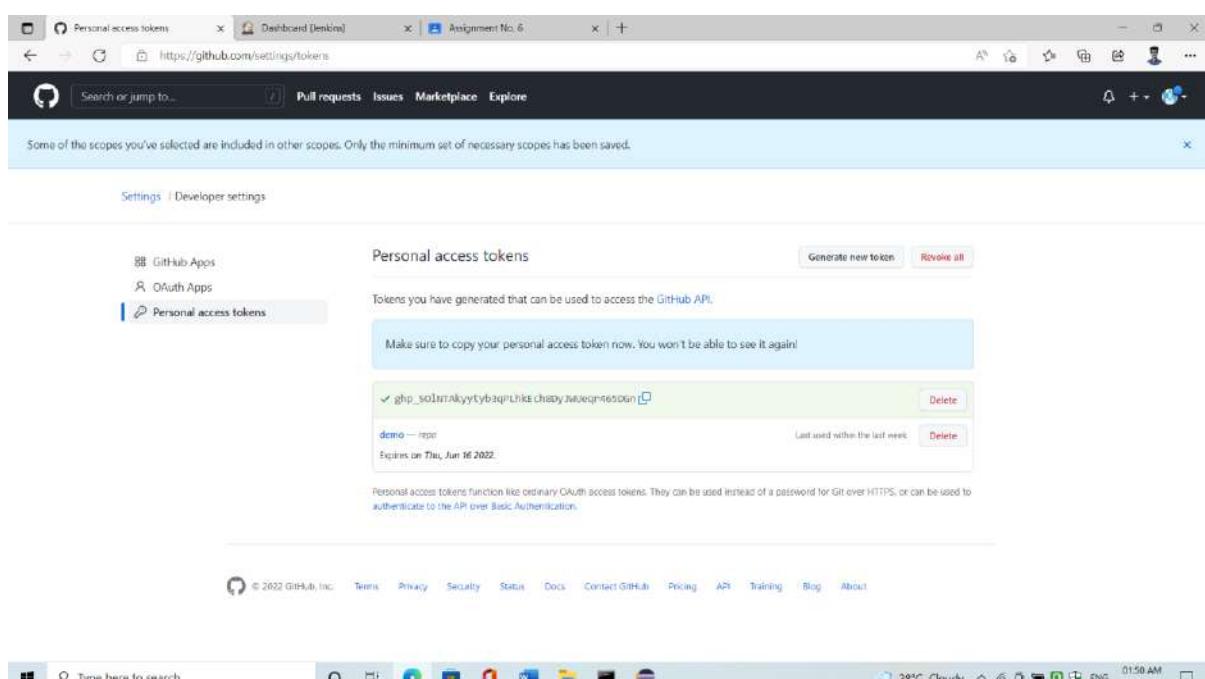
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Generated Token as follow: -



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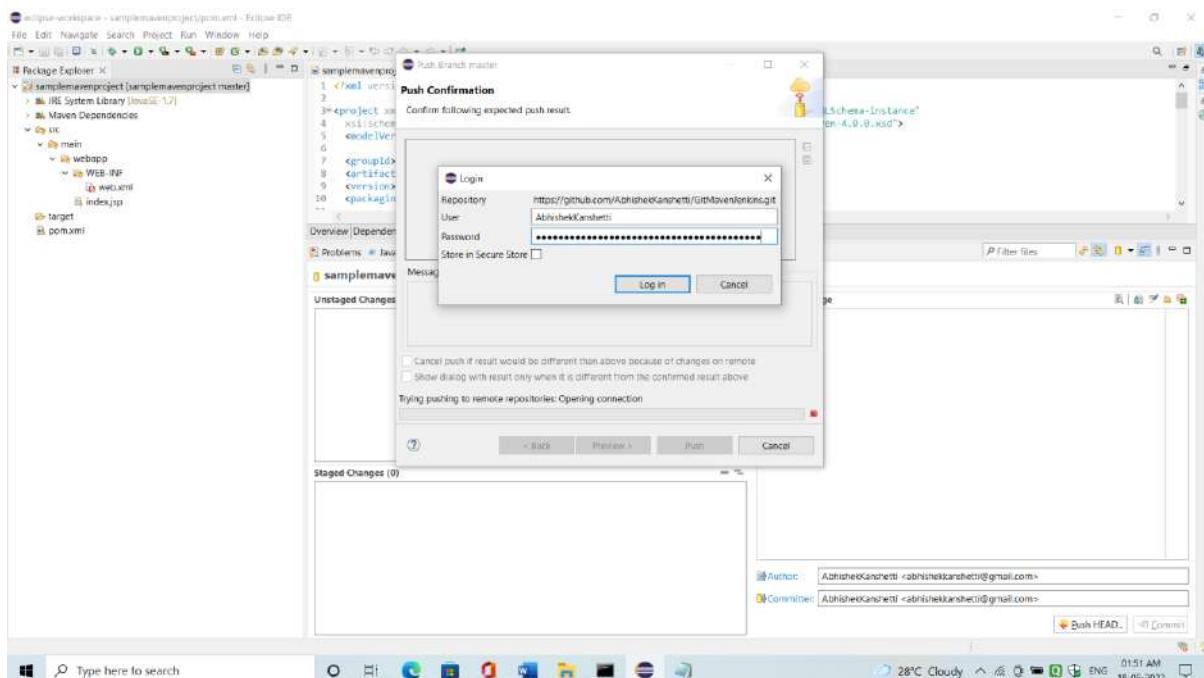
Name: Abhishek Basavraj Kanshetti

Roll No: 22

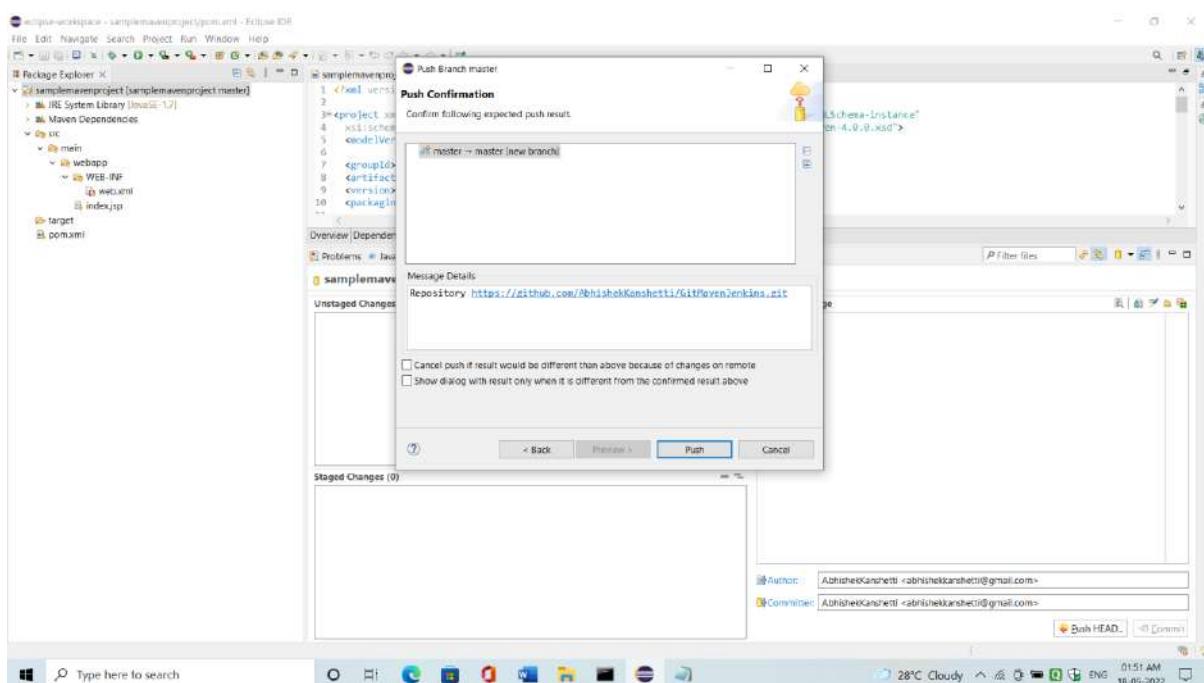
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Enter token as follow: -



Click on push: -



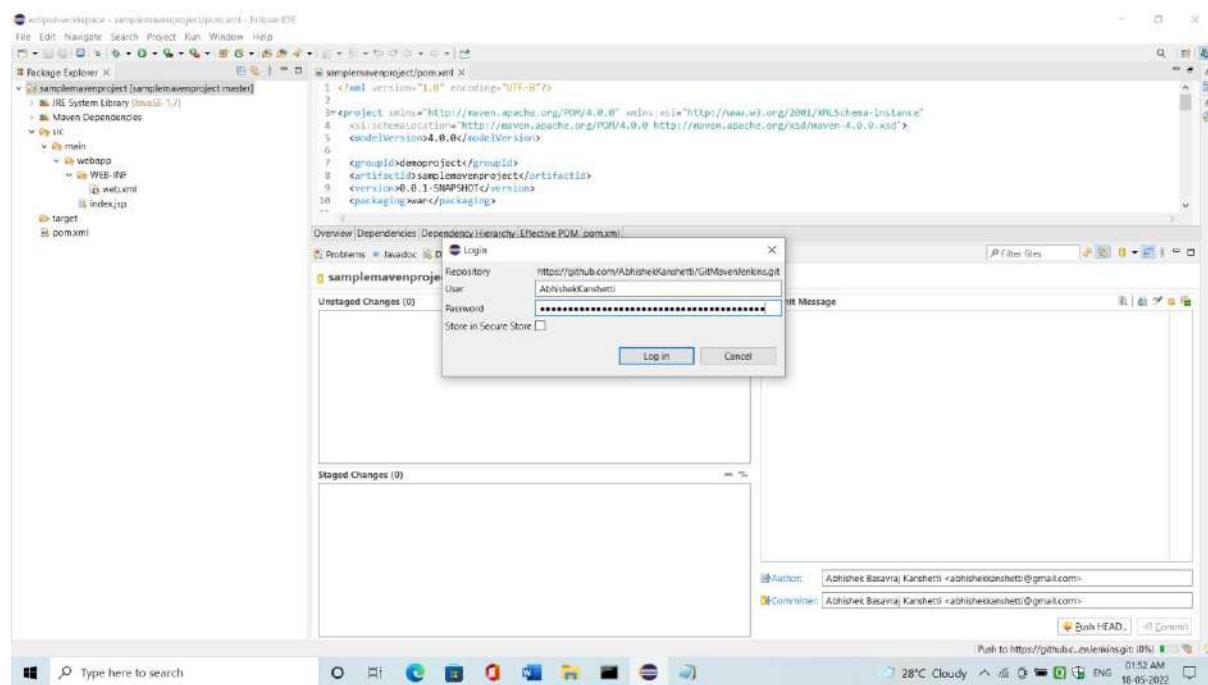
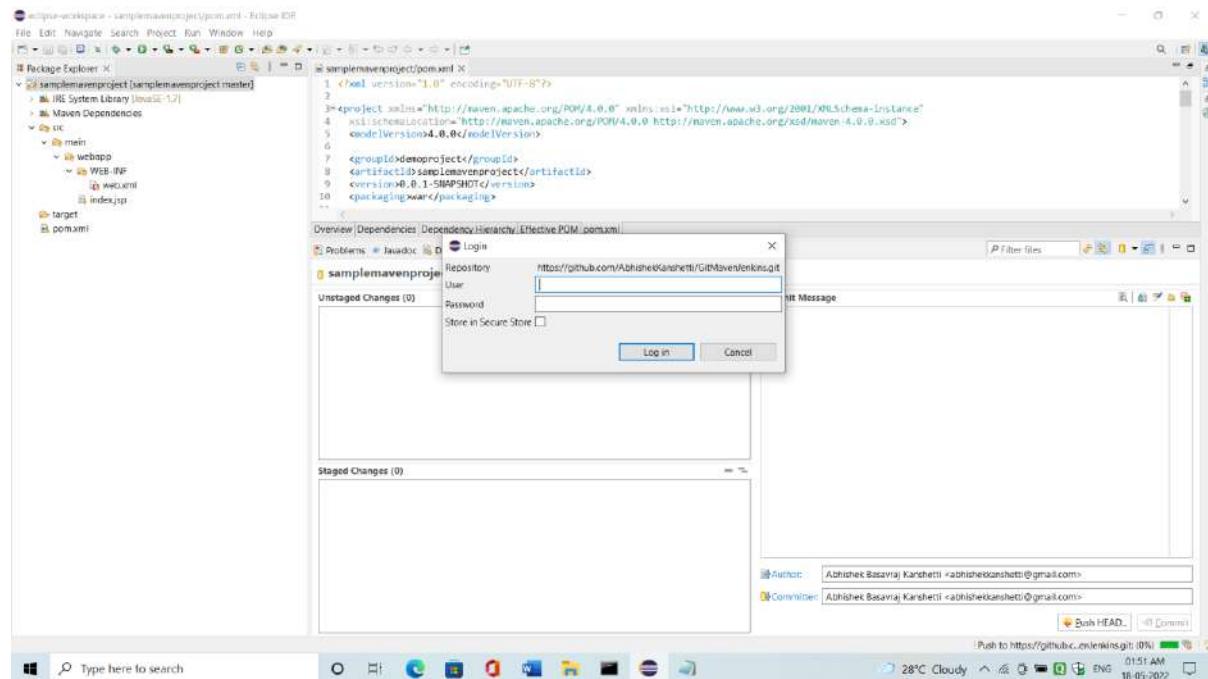
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Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Again, enter username and password: -



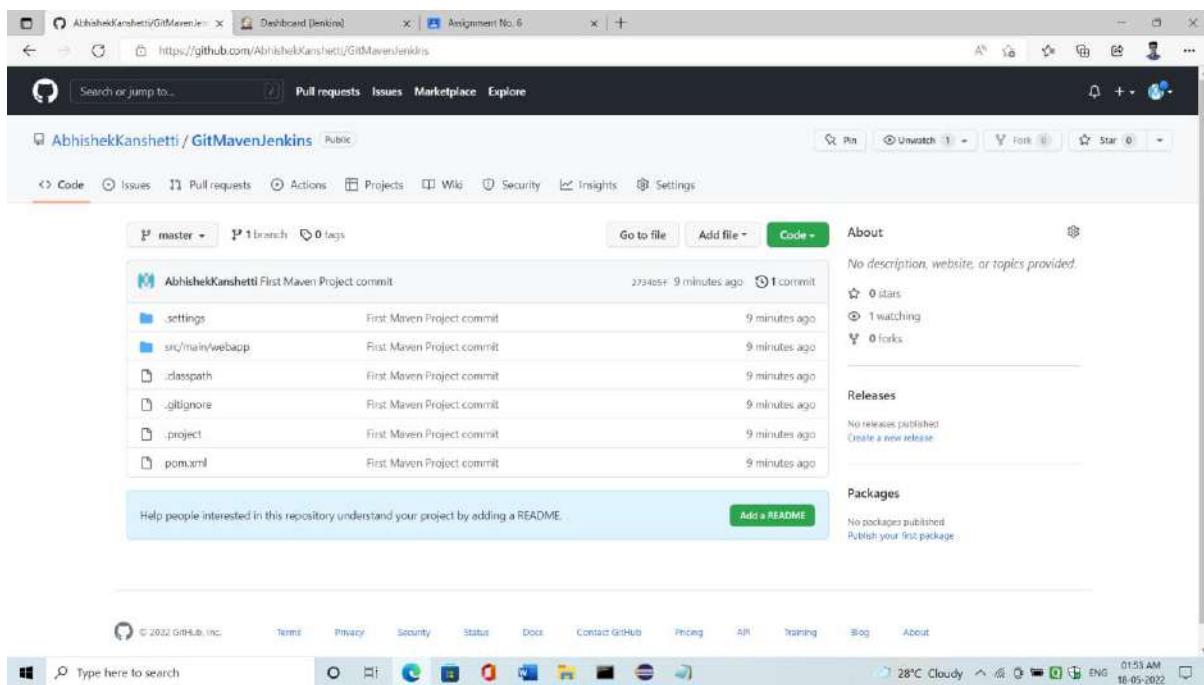
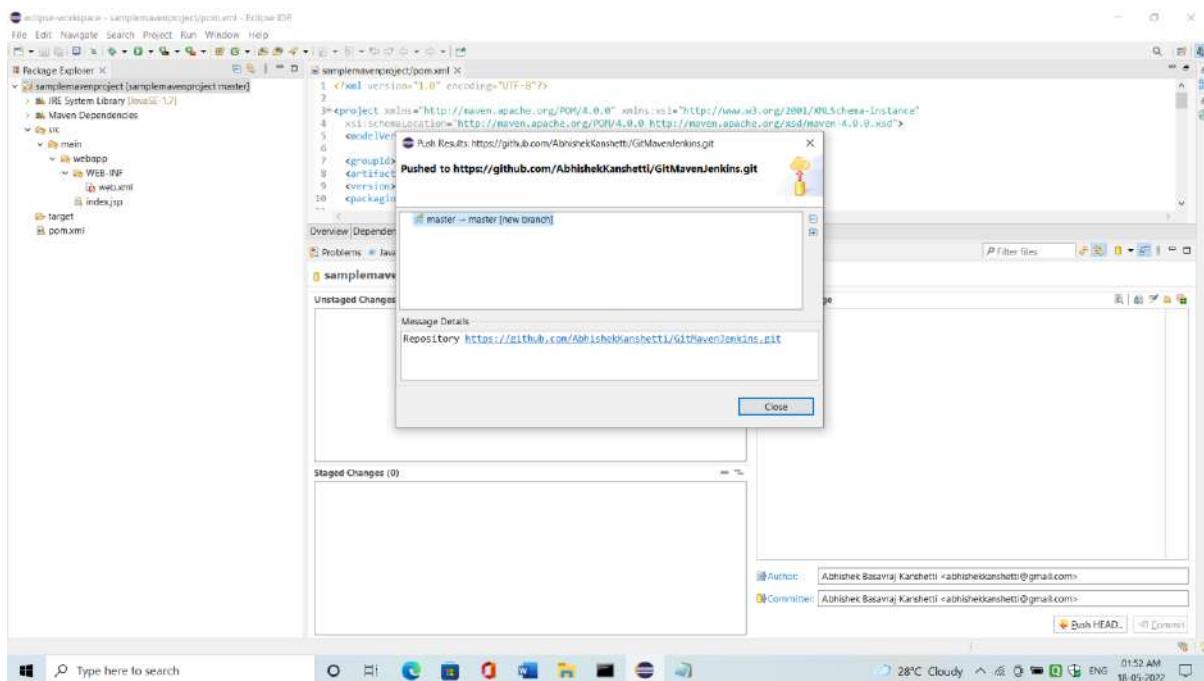
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Title: Automate Deployment using Jenkins plugin "Deploy to container"
Pushed Successfully on git as follow: -



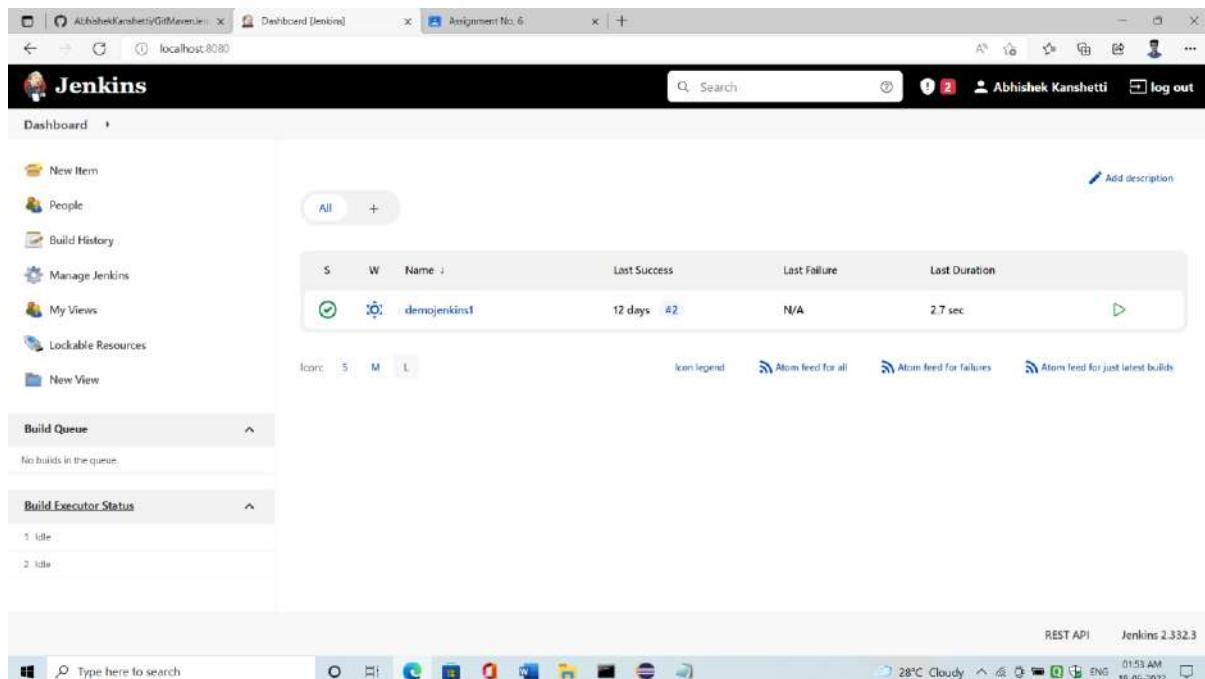
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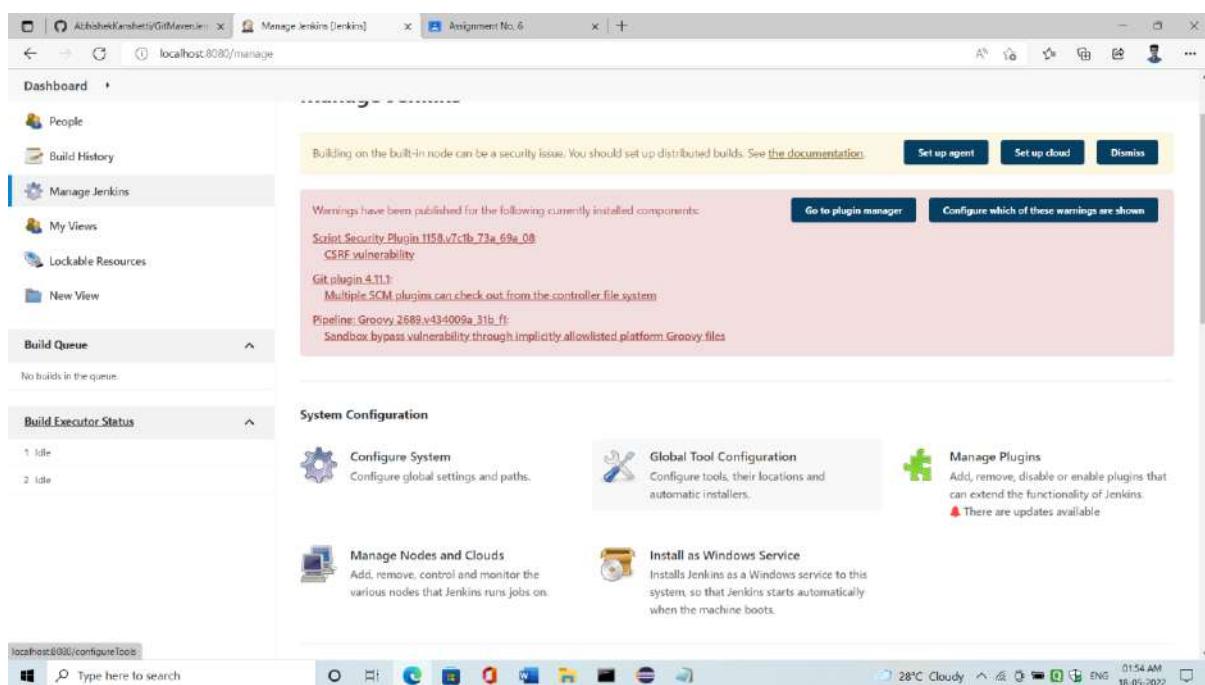
Title: Automate Deployment using Jenkins plugin "Deploy to container"



The screenshot shows the Jenkins dashboard at [localhost:8080](http://AbhishekKanshetti/GitMavenjen). The main area displays a table of jobs with one entry:

S	W	Name	Last Success	Last Failure	Last Duration
		demojenkins1	12 days ago	N/A	2.7 sec

Below the table, there are sections for 'Build Queue' (empty) and 'Build Executor Status' (2 idle). The top navigation bar includes links for 'Dashboard', 'New Item', 'People', 'Build History', 'Manage Jenkins', 'My Views', 'Lockable Resources', and 'New View'. The status bar at the bottom shows 'REST API Jenkins 2.332.3'.



The screenshot shows the Jenkins 'Manage Jenkins' page at [localhost:8080/manage](http://AbhishekKanshetti/GitMavenjen/manage). The left sidebar lists 'Dashboard', 'People', 'Build History', 'Manage Jenkins' (selected), 'My Views', 'Lockable Resources', and 'New View'. The main content area is titled 'System Configuration' and contains several sections:

- Configure System**: Configure global settings and paths.
- Global Tool Configuration**: Configure tools, their locations and automatic installers.
- Manage Plugins**: Add, remove, disable or enable plugins that can extend the functionality of Jenkins. A red alert indicates updates are available.
- Manage Nodes and Clouds**: Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Install as Windows Service**: Installs Jenkins as a Windows service to this system, so that Jenkins starts automatically when the machine boots.

The status bar at the bottom shows 'localhost:8080/configureTools' and '28°C Cloudy 01:54 AM 18-09-2022'.

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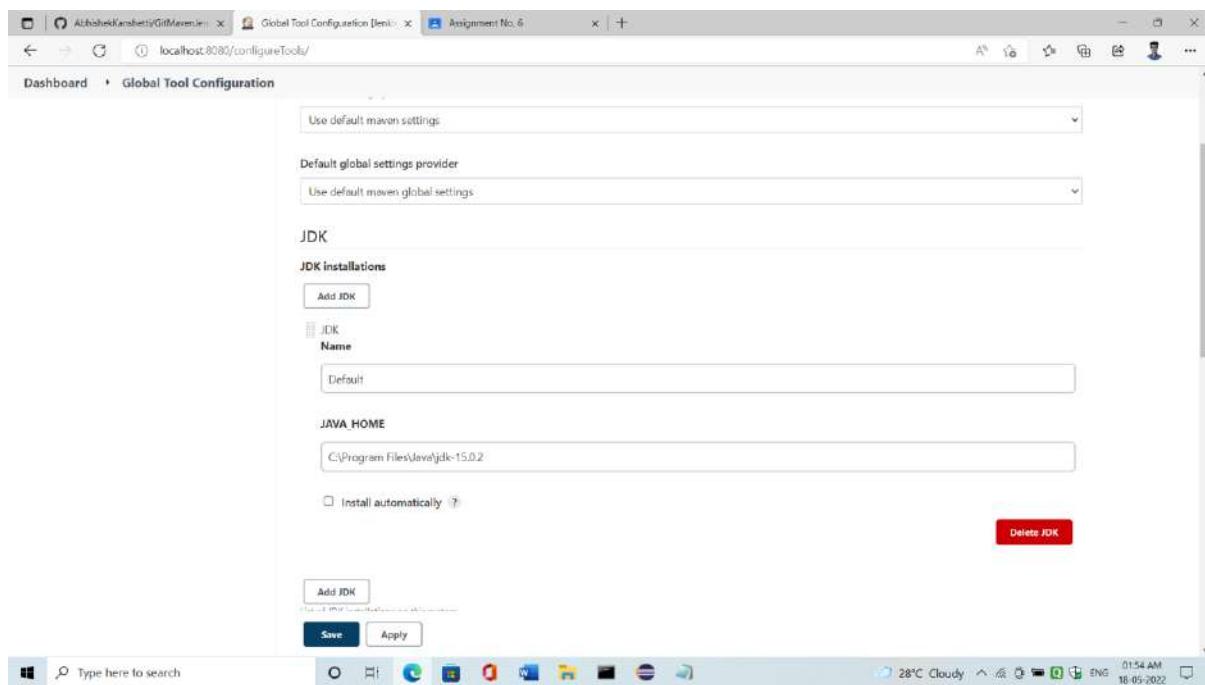
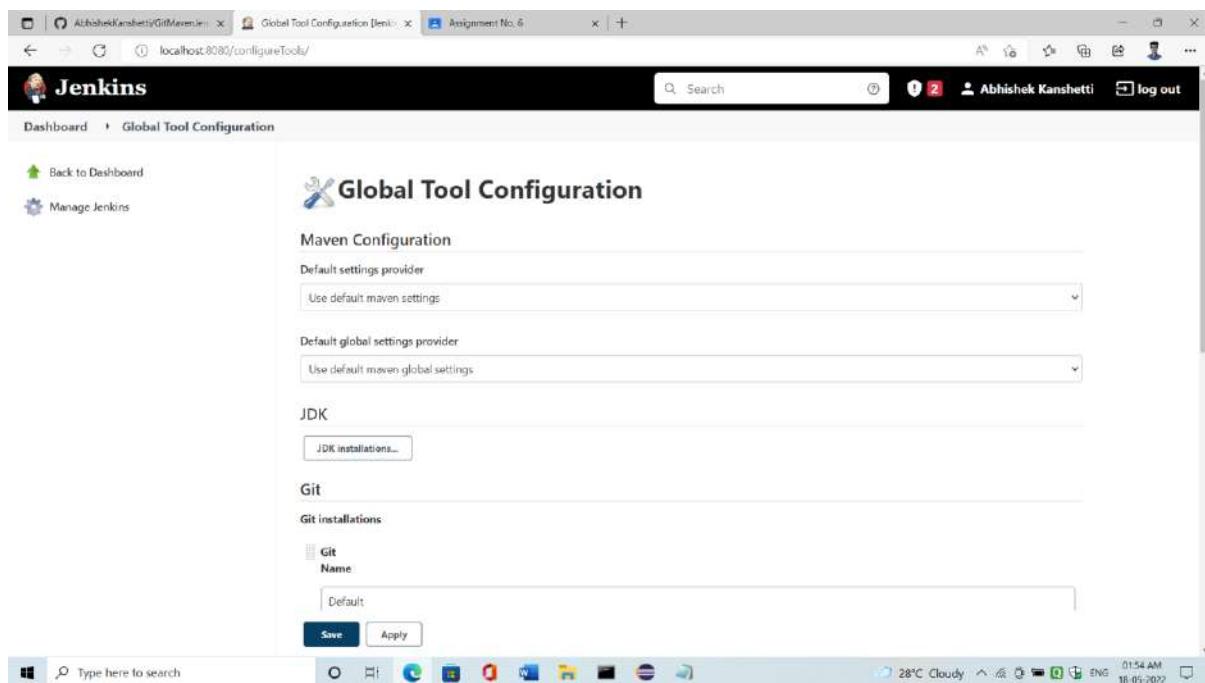
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Title: Automate Deployment using Jenkins plugin "Deploy to container"

Setting Up the Global Tool Configuration Settings as follow: -



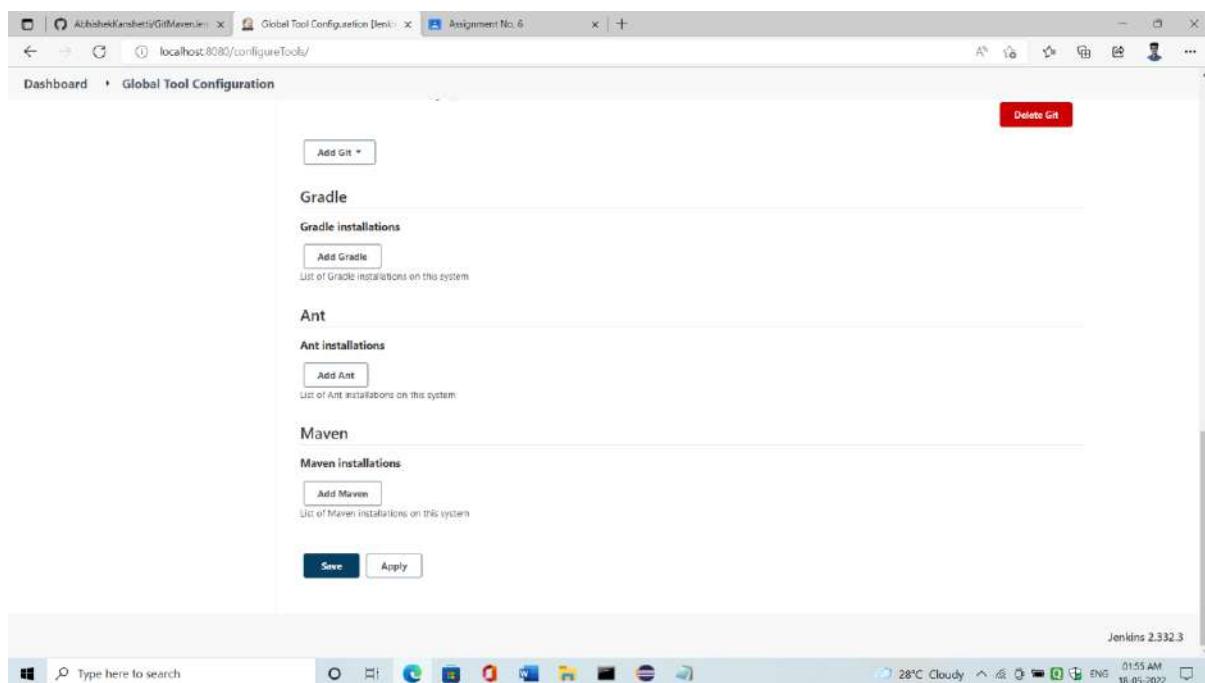
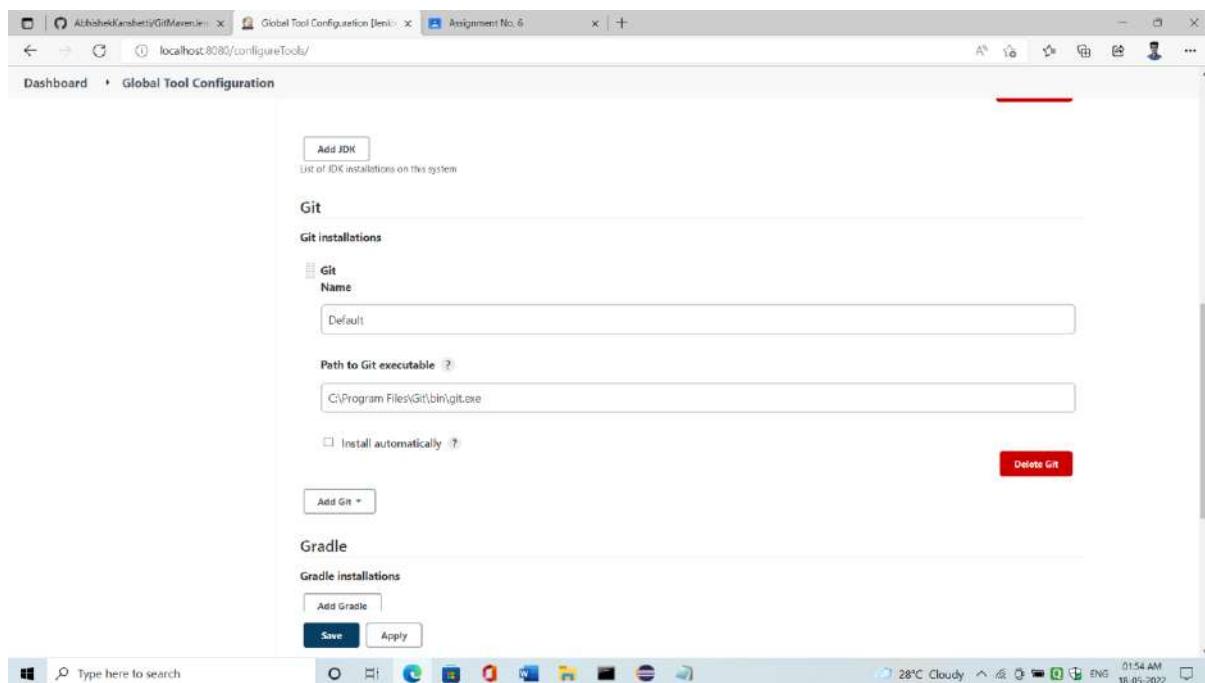
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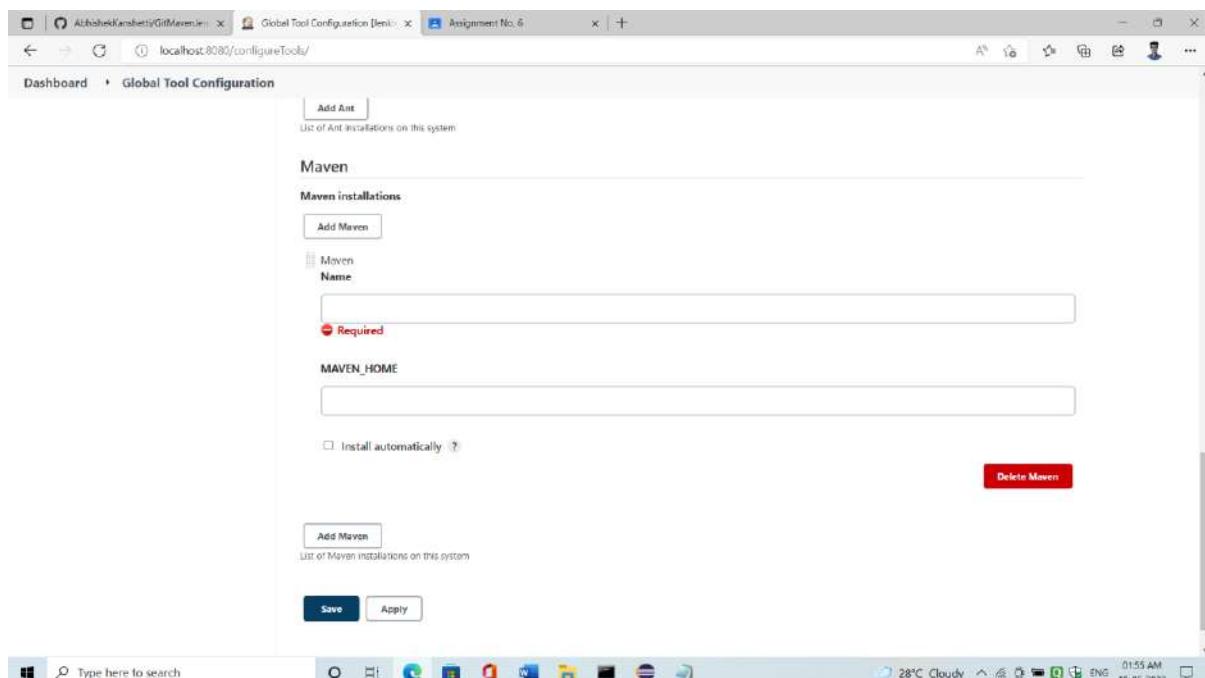
Name: Abhishek Basavraj Kanshetti

Roll No: 22

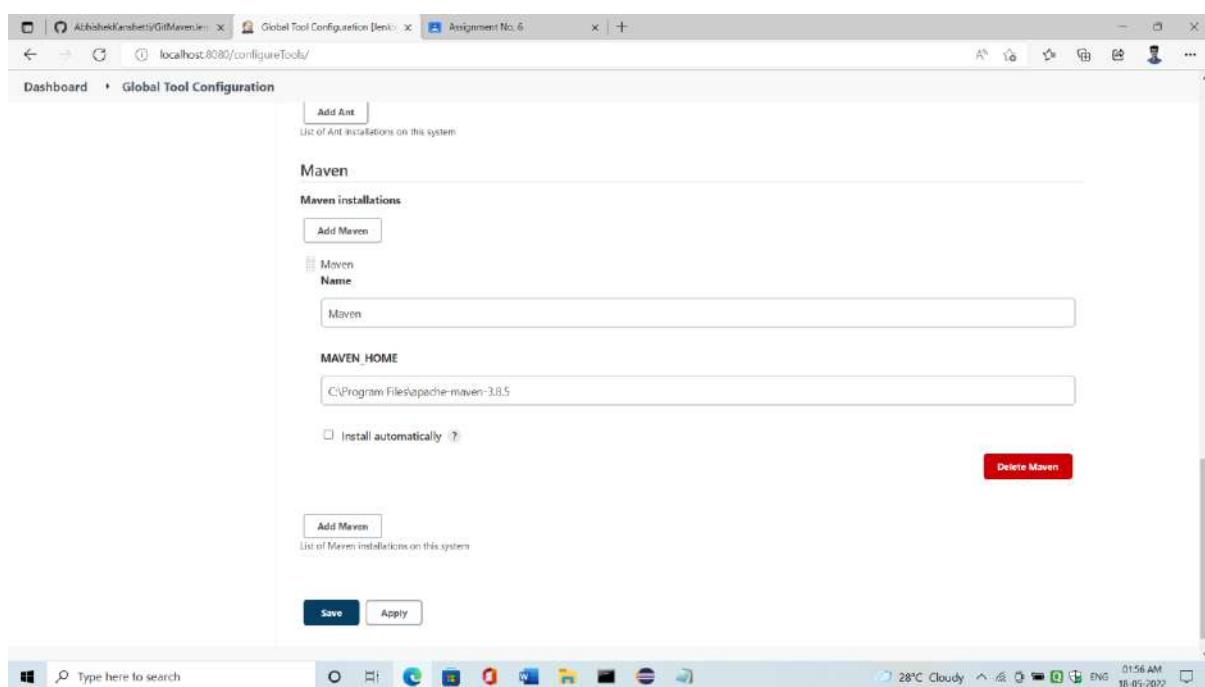
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Click on add maven: -



Deselect install automatically: -



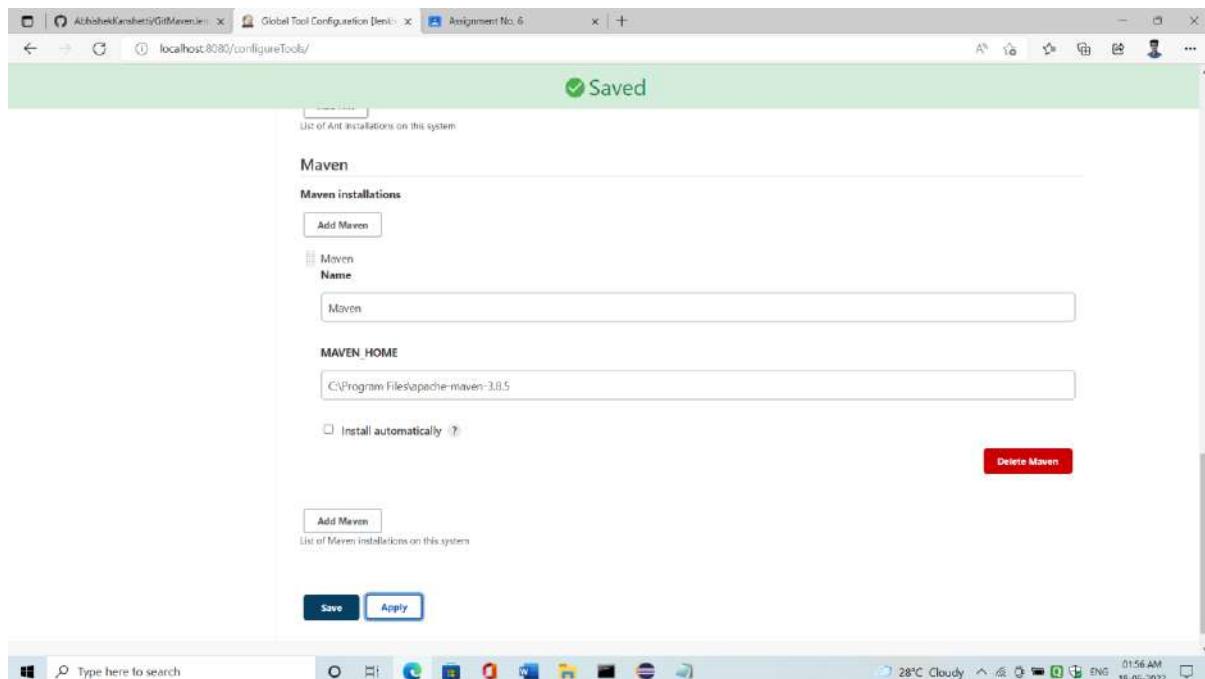
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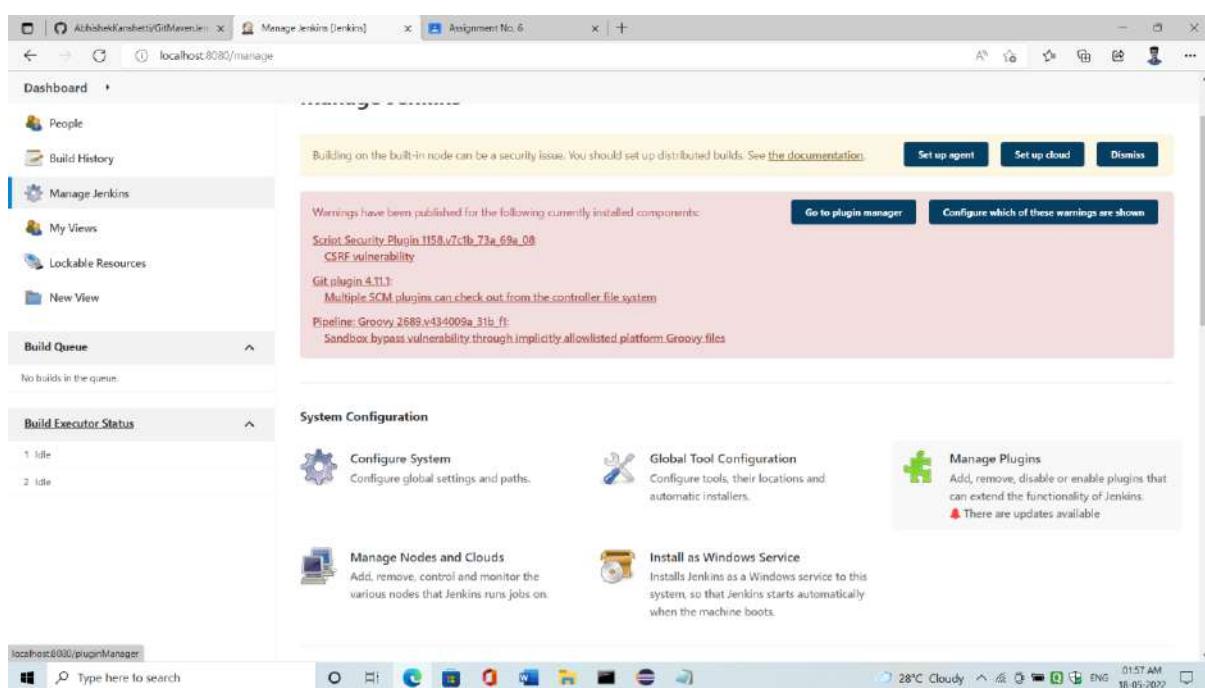
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



Click on the Manage Plugins as follow: -



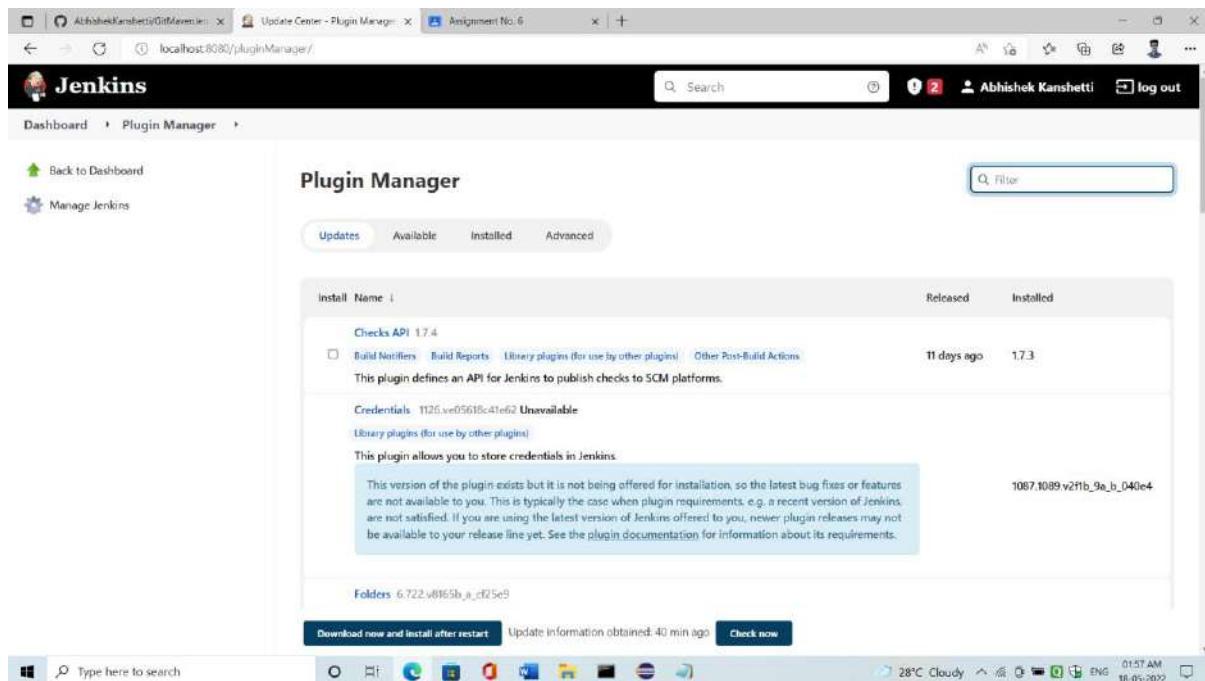
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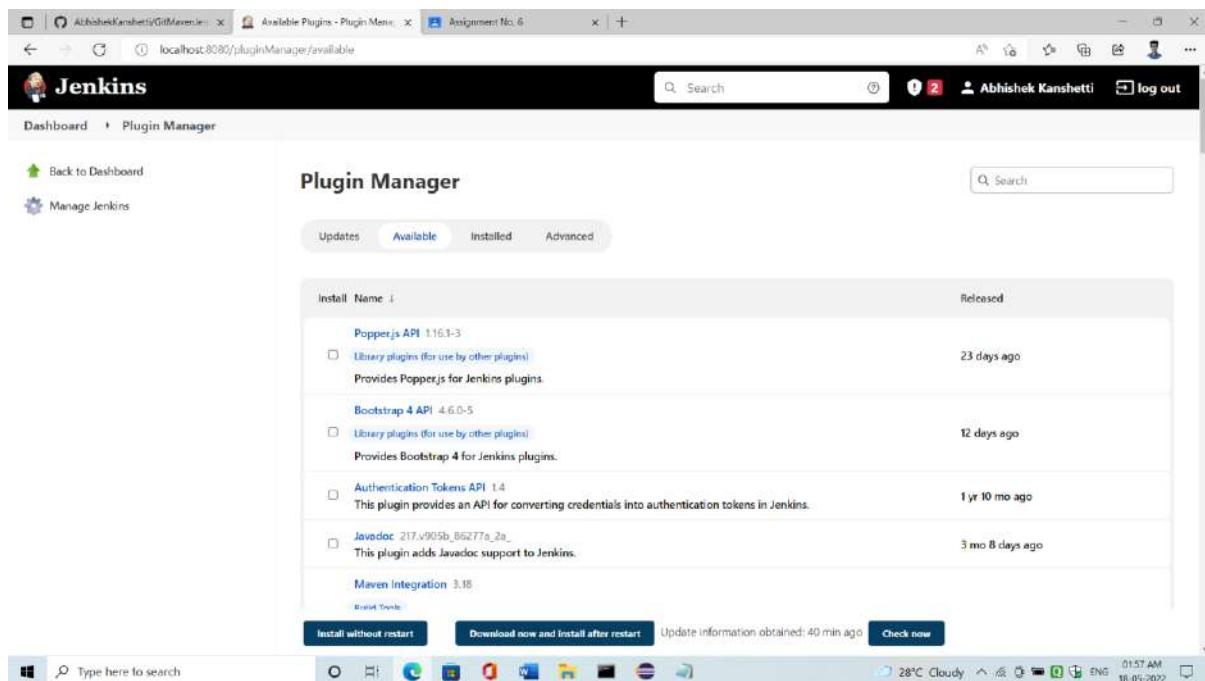
Title: Automate Deployment using Jenkins plugin "Deploy to container"



The screenshot shows the Jenkins Plugin Manager interface. The title bar says "Assignment No: 6". The main heading is "Plugin Manager". Below it, there are tabs: "Updates", "Available" (which is selected), "Installed", and "Advanced". A search bar is at the top right. The main content area displays a table of available plugins:

Install Name	Released	Installed
Checks API 1.7.4	11 days ago	1.7.3
Credentials 1126.vc05618c41ef62	Unavailable	
Folders 6.722.v8165b_a_cf25e9		

Below the table, there are buttons for "Download now and install after restart" and "Check now". The status bar at the bottom indicates "Update information obtained: 40 min ago".



This screenshot shows the Jenkins Plugin Manager with more plugins listed under the "Available" tab. The table includes:

Install Name	Released
Popper.js API 1.16.1-3	23 days ago
Bootstrap 4 API 4.6.0-5	12 days ago
Authentication Tokens API 1.4	1 yr 10 mo ago
Javadoc 217.v905b_86277a_2a_	3 mo 8 days ago
Maven Integration 3.18	

At the bottom, there are buttons for "Install without restart", "Download now and install after restart", and "Check now". The status bar at the bottom indicates "Update information obtained: 40 min ago".

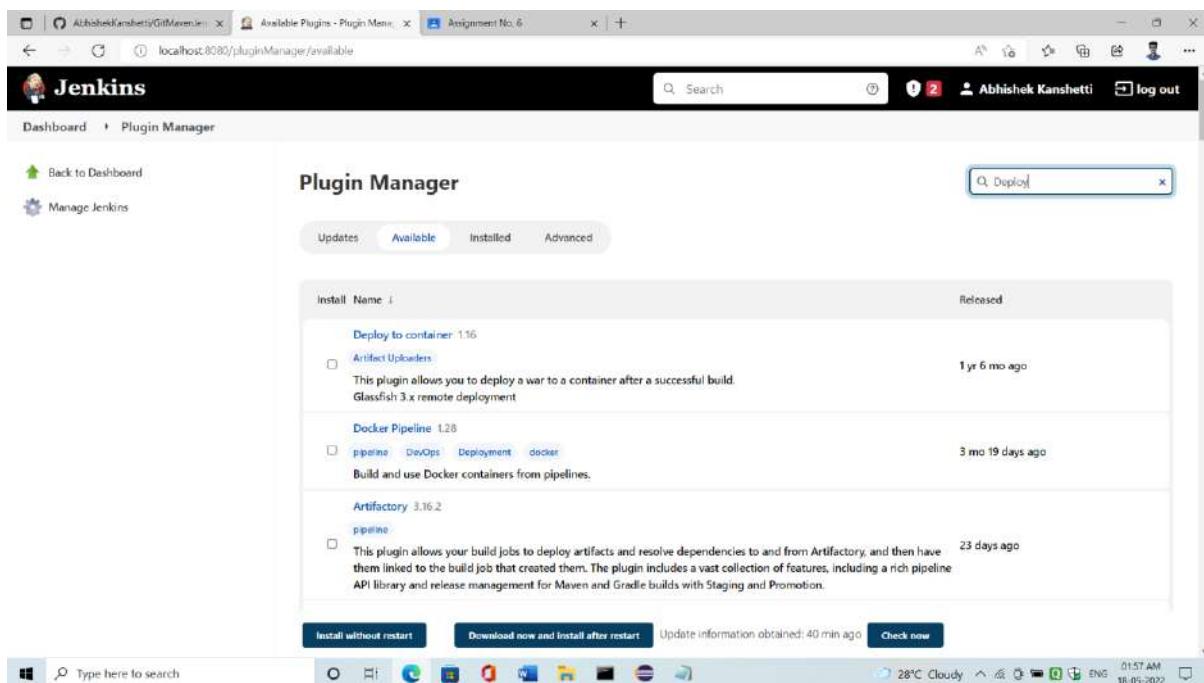
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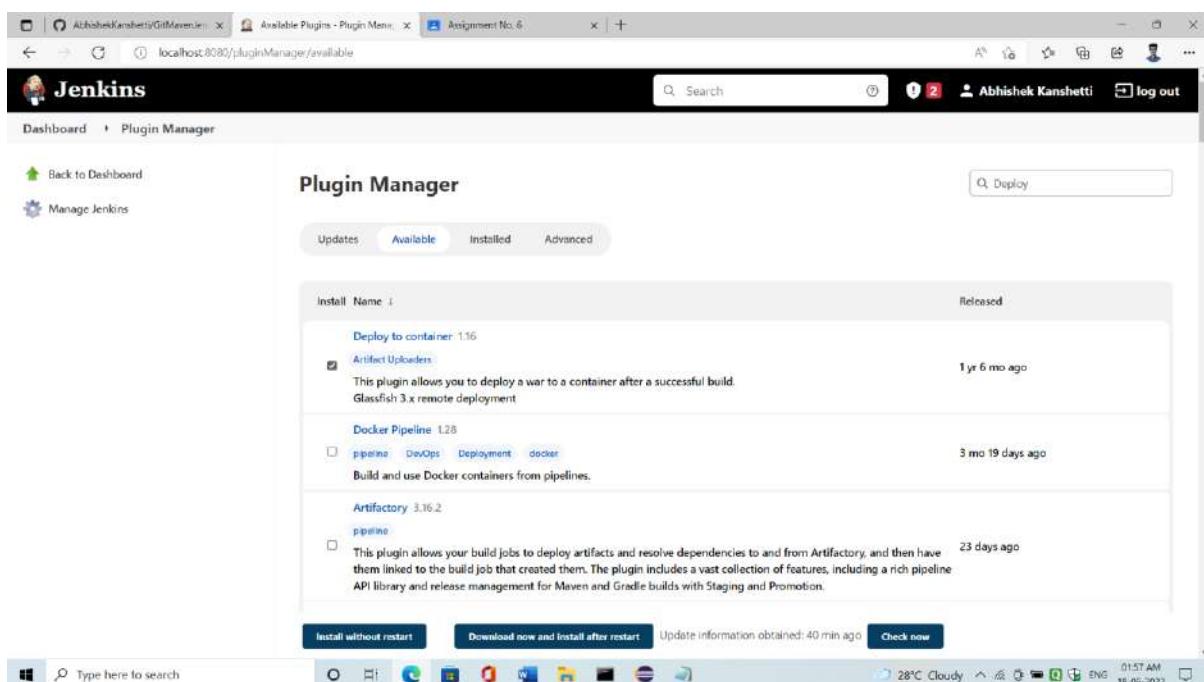
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Title: Automate Deployment using Jenkins plugin "Deploy to container"



Click on install without restart: -



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Title: Automate Deployment using Jenkins plugin "Deploy to container"

Installing Plugins/Upgrades

Preparation

- Checking internet connectivity
- Checking update center connectivity

Deploy to container

Pending

Loading plugin extensions

Pending

[Go back to the top page](#)
(you can start using the installed plugins right away)

Restart Jenkins when installation is complete and no jobs are running.

Installed Plugin Successfully: -

Installing Plugins/Upgrades

Preparation

- Checking Internet connectivity
- Checking update center connectivity
- Success

Deploy to container

Success

Loading plugin extensions

Success

[Go back to the top page](#)
(you can start using the installed plugins right away)

Restart Jenkins when installation is complete and no jobs are running.

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Title: Automate Deployment using Jenkins plugin "Deploy to container"

Now logout and login again: -



Welcome to Jenkins!

Username

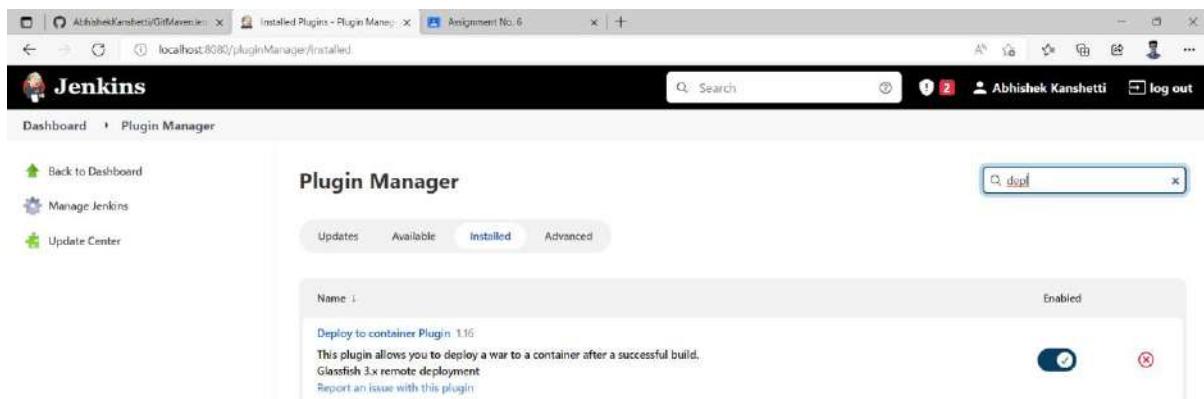
Password

Sign in

Keep me signed in



Is it installed, we can see now as follow: -



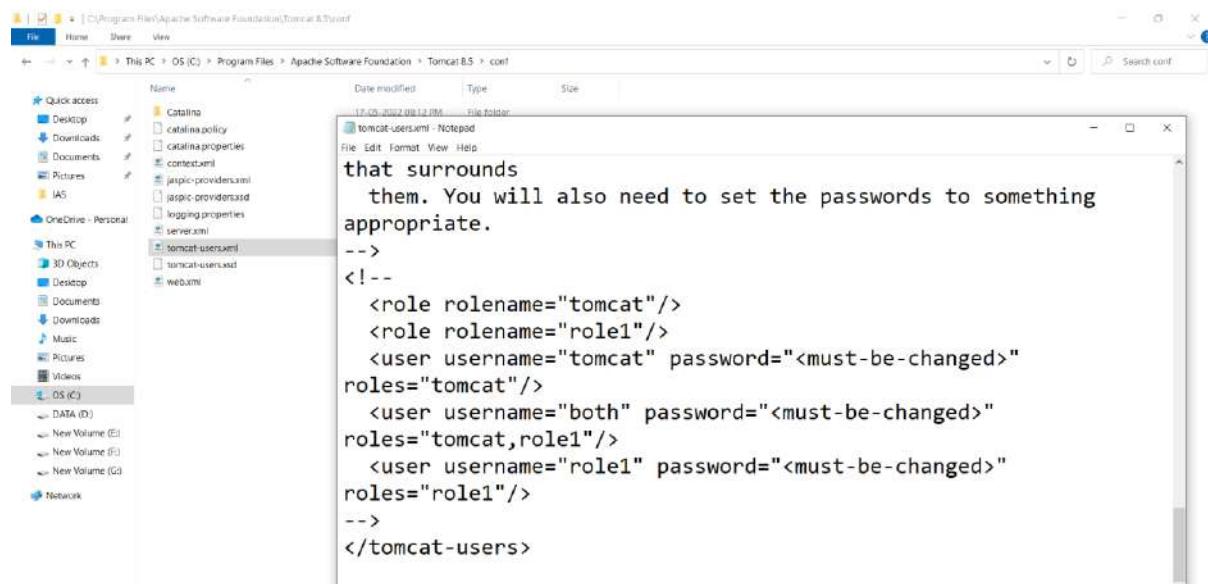
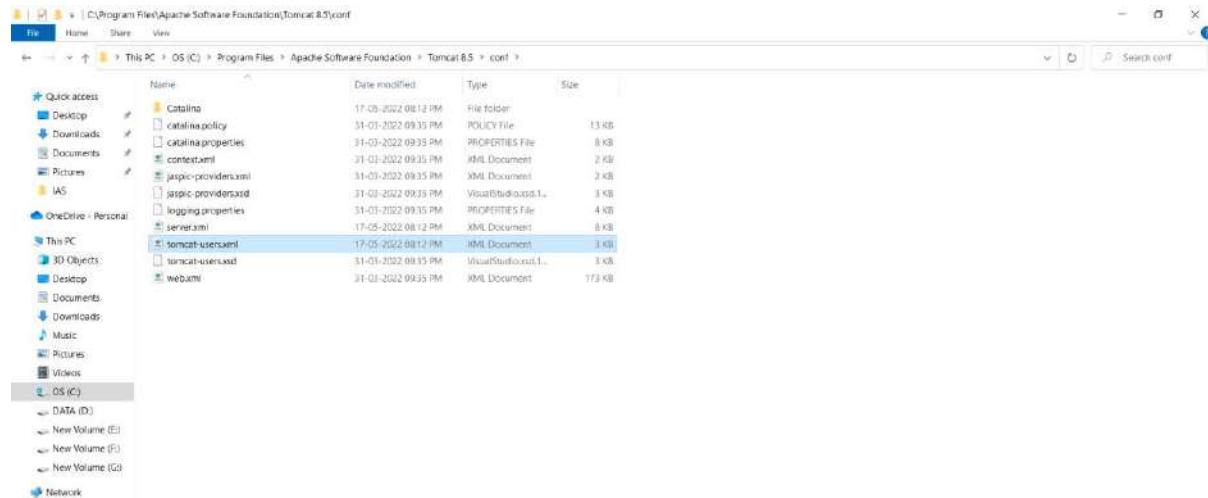
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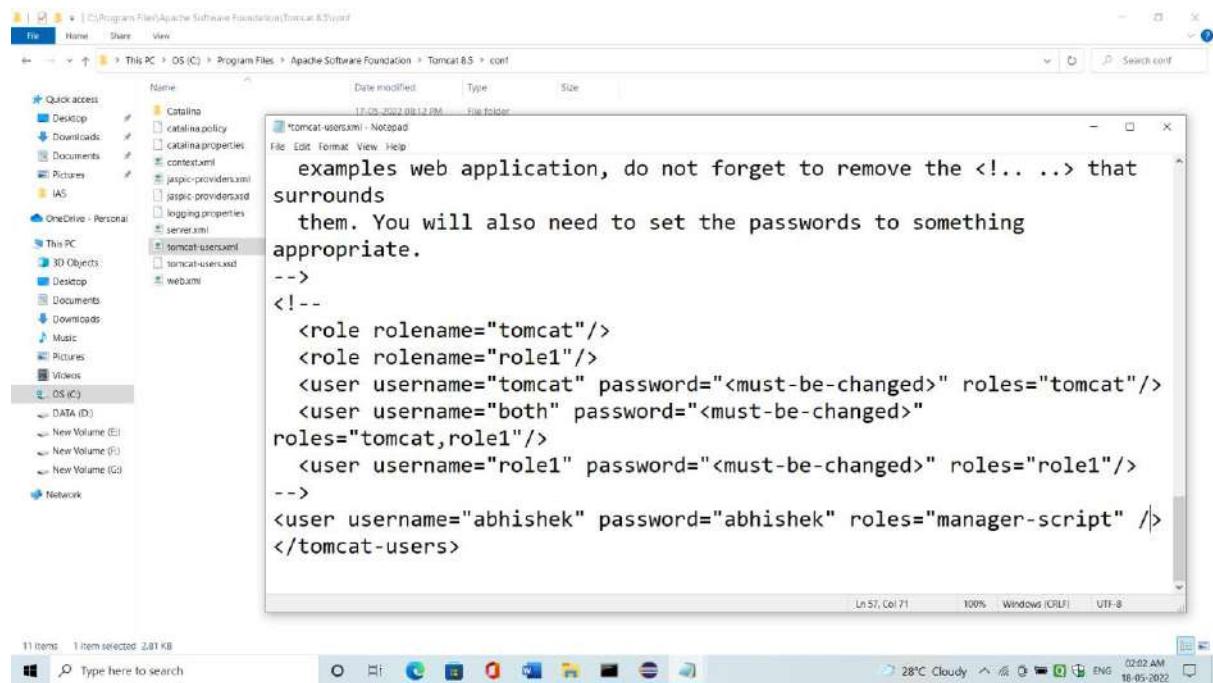
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ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

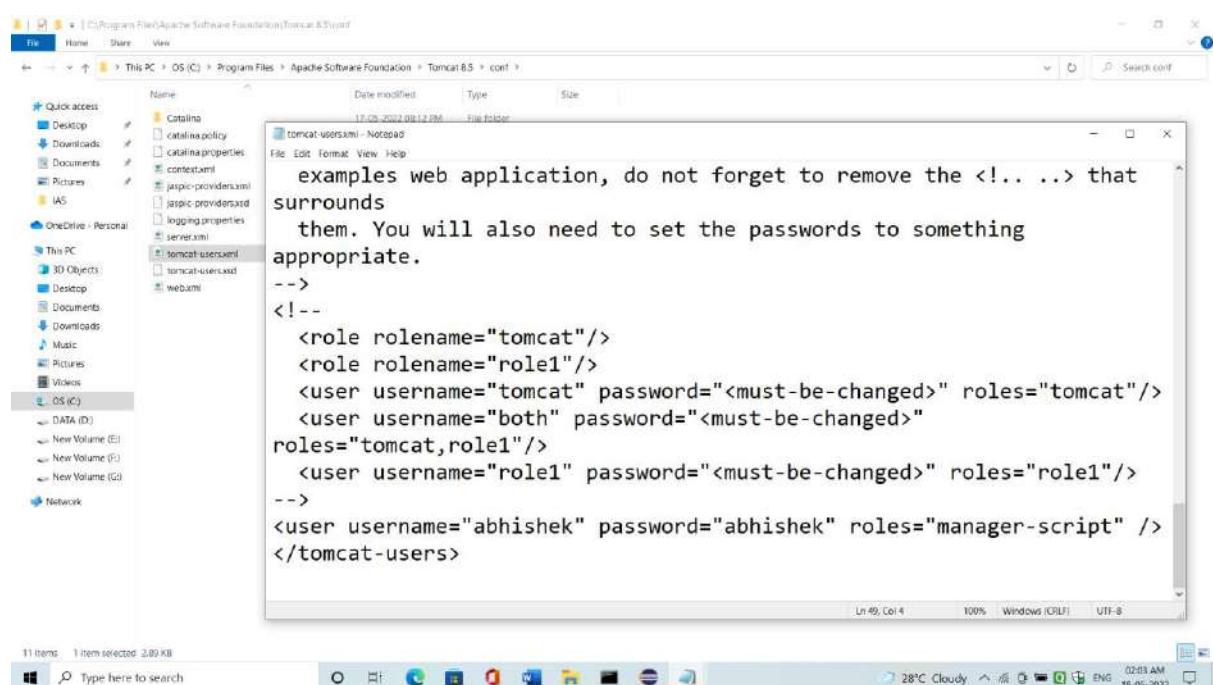
Setup the username and password by adding one line in tomcat users as follow: -



```
examples web application, do not forget to remove the <!... ...> that surrounds them. You will also need to set the passwords to something appropriate.

-->
<!--
<role rolename="tomcat"/>
<role rolename="role1"/>
<user username="tomcat" password="" roles="tomcat"/>
<user username="both" password="" roles="tomcat,role1"/>
<user username="role1" password="" roles="role1"/>
-->
<user username="abhishek" password="abhishek" roles="manager-script" />
</tomcat-users>
```

And save it: -



```
examples web application, do not forget to remove the <!... ...> that surrounds them. You will also need to set the passwords to something appropriate.

-->
<!--
<role rolename="tomcat"/>
<role rolename="role1"/>
<user username="tomcat" password="" roles="tomcat"/>
<user username="both" password="" roles="tomcat,role1"/>
<user username="role1" password="" roles="role1"/>
-->
<user username="abhishek" password="abhishek" roles="manager-script" />
</tomcat-users>
```

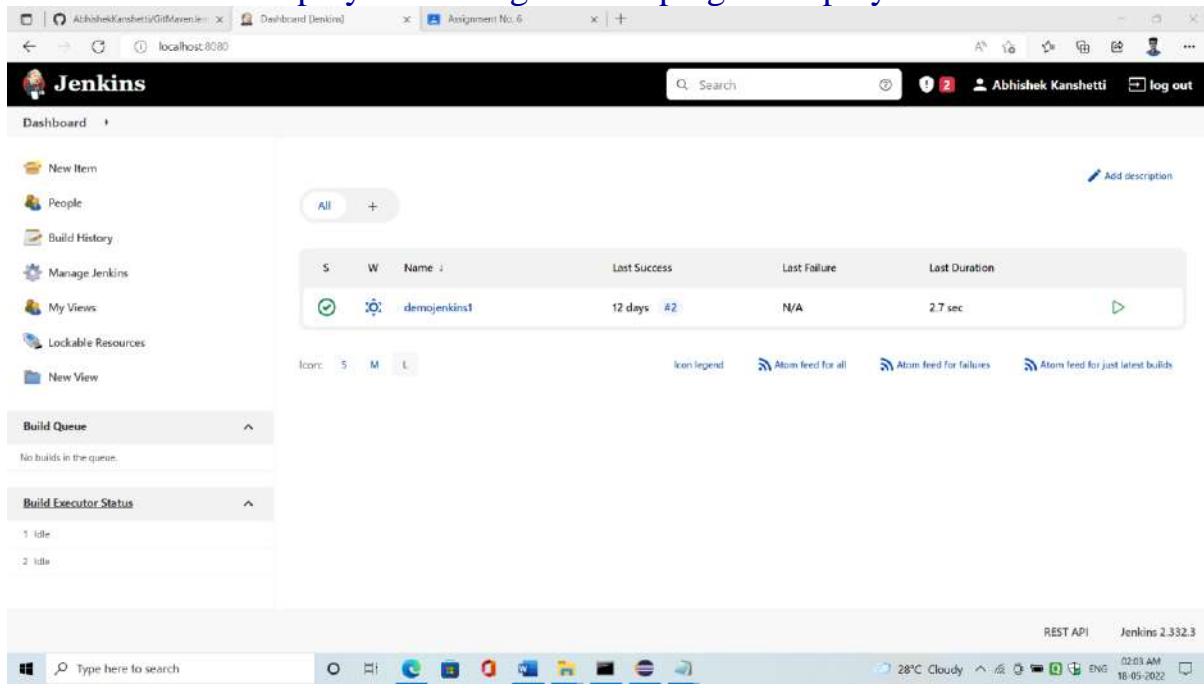
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

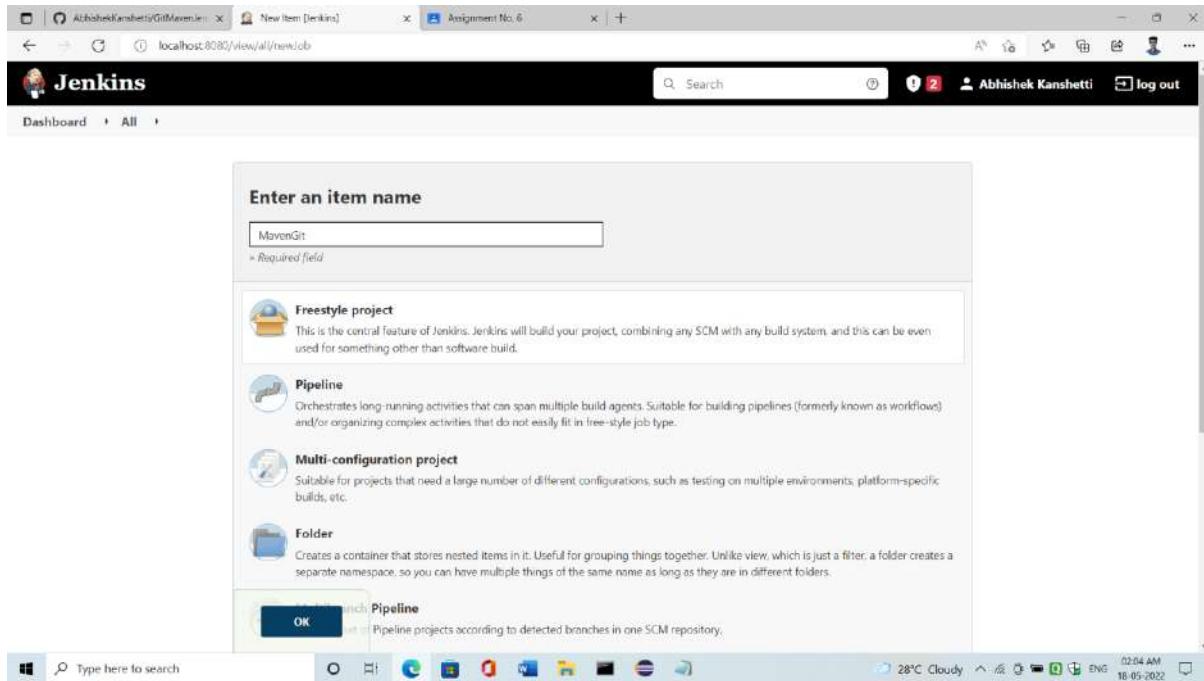


The screenshot shows the Jenkins dashboard with a single job entry:

S	W	Name	Last Success	Last Failure	Last Duration
Green checkmark	Yellow question mark	demojenkins1	12 days ago	N/A	2.7 sec

Below the dashboard, there are sections for 'Build Queue' (empty) and 'Build Executor Status' (two idle executors).

Now create the New Job as following instructions as below with particular settings: -



The screenshot shows the 'New Item [Jenkins]' configuration page. The 'Item name' field is filled with 'MavenGit'. Below the field, there are four project type options:

- Freestyle project**: This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- Pipeline**: Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- Multi-configuration project**: Suitable for projects that need a large number of different configurations; such as testing on multiple environments, platform-specific builds, etc.
- Folder**: Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

A large 'OK' button is located at the bottom of the form.

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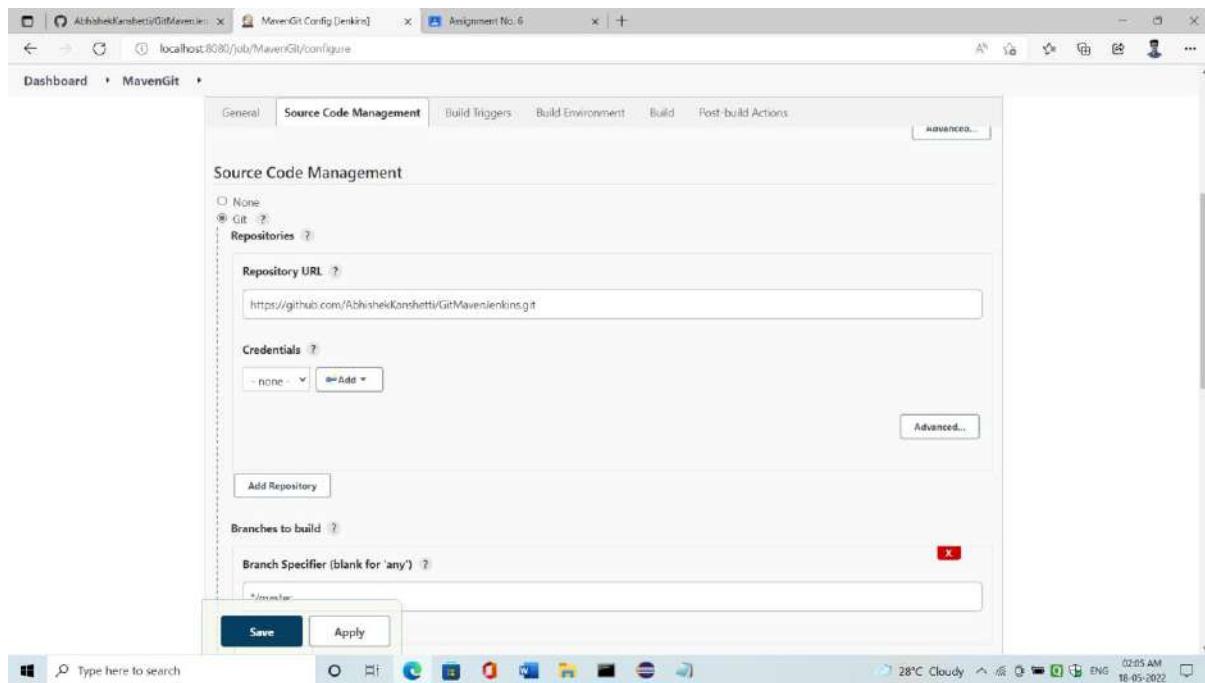
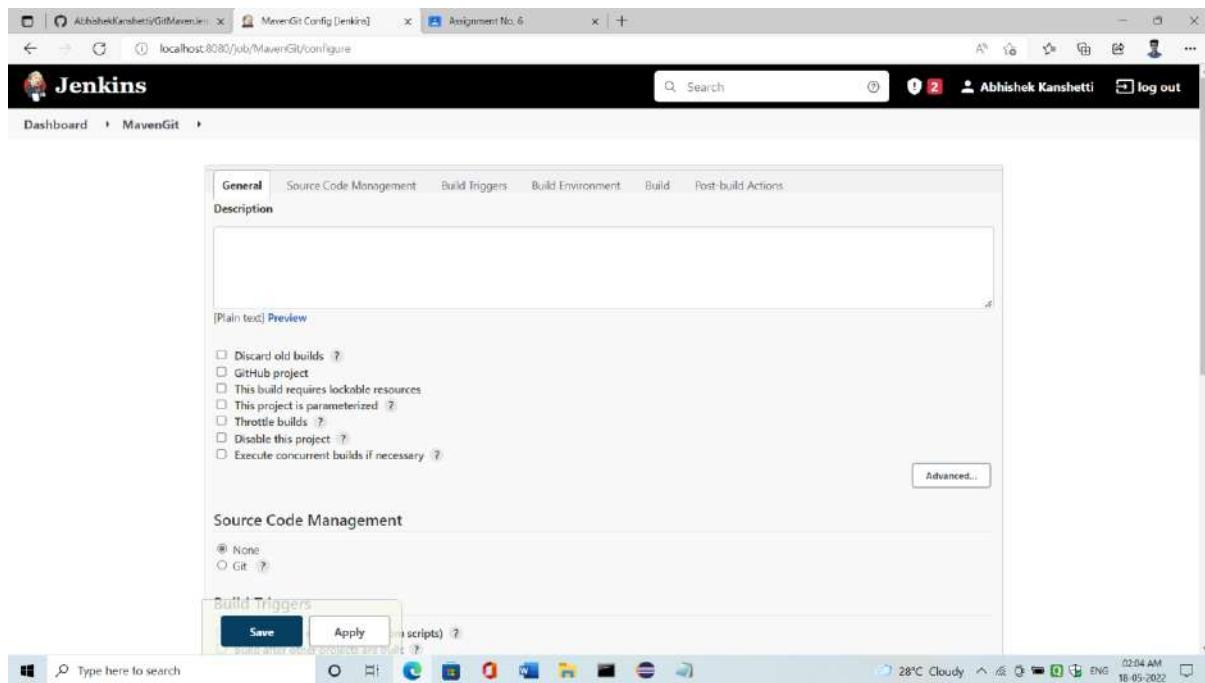
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

After click on ok: -



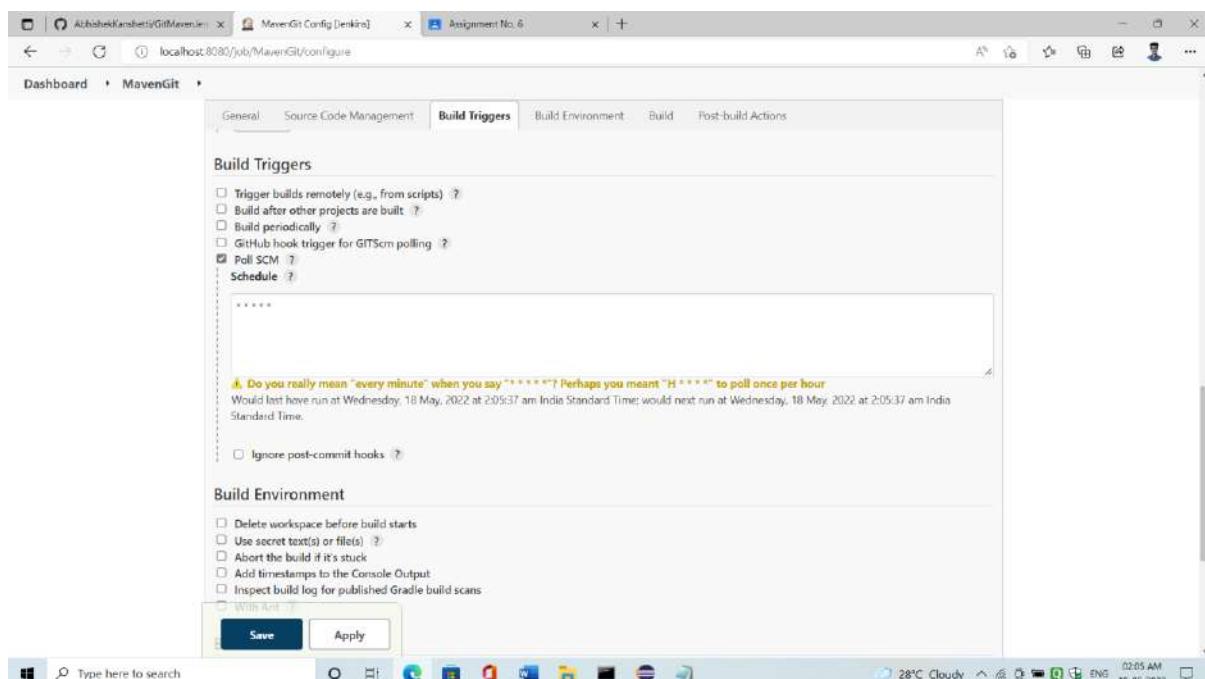
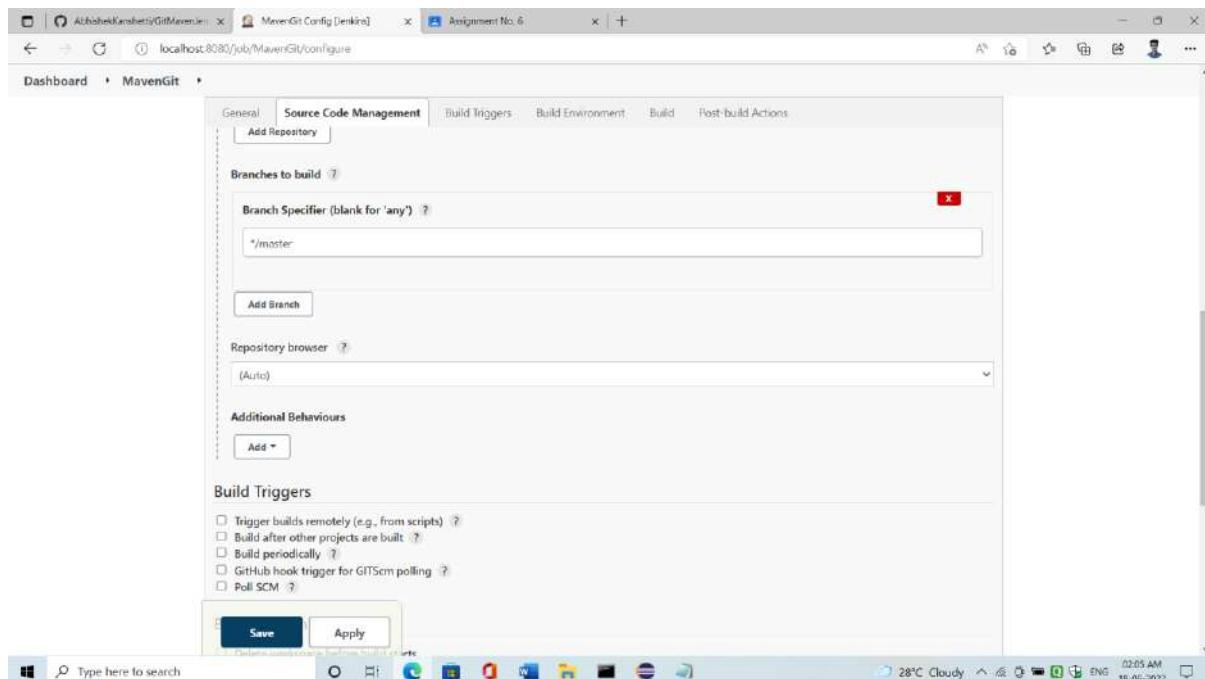
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



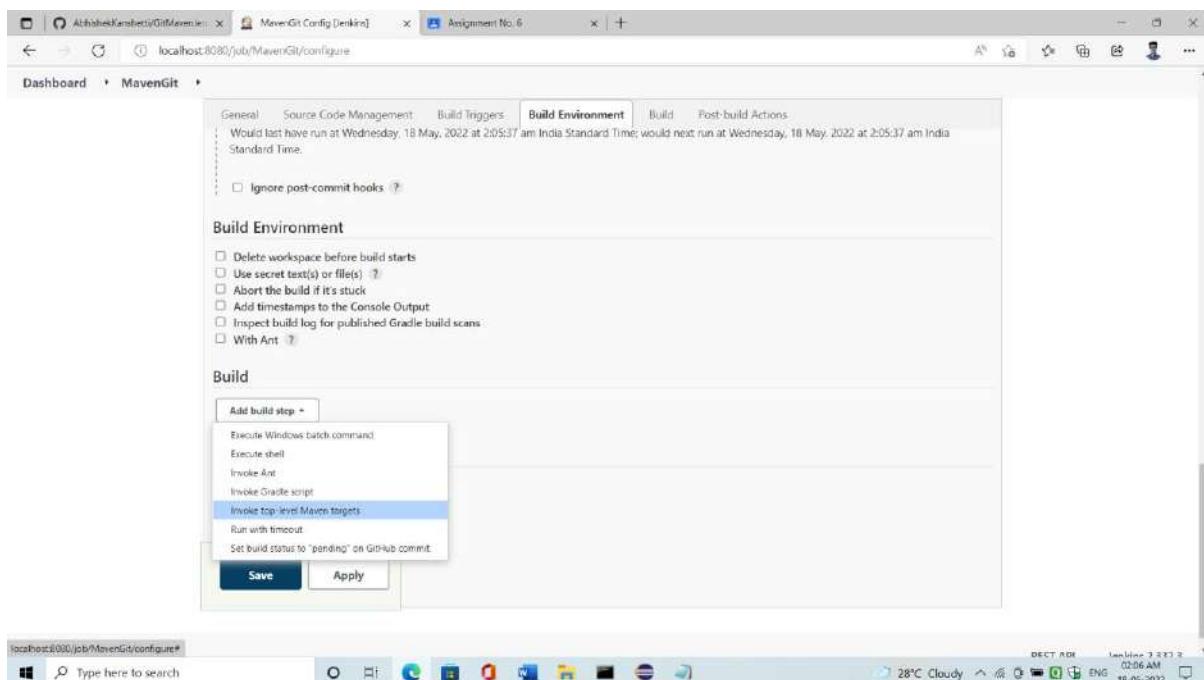
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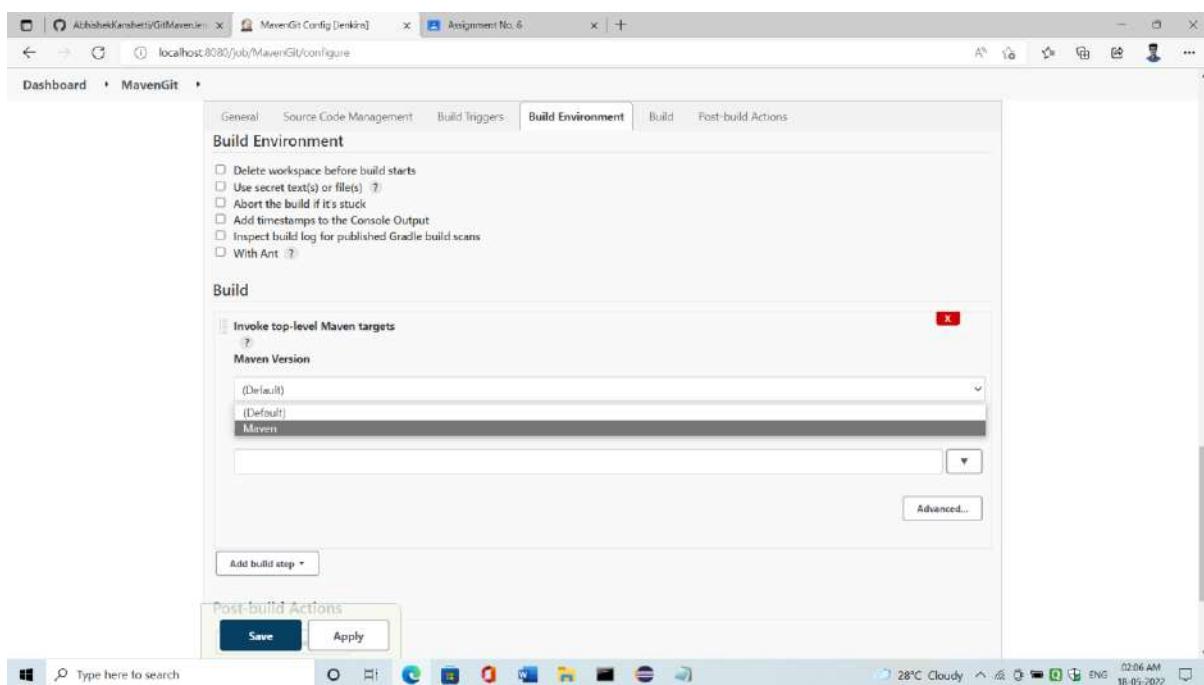
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Select the settings “Invoke top-level Maven targets”: -



Select Drop-Down Maven Option: -



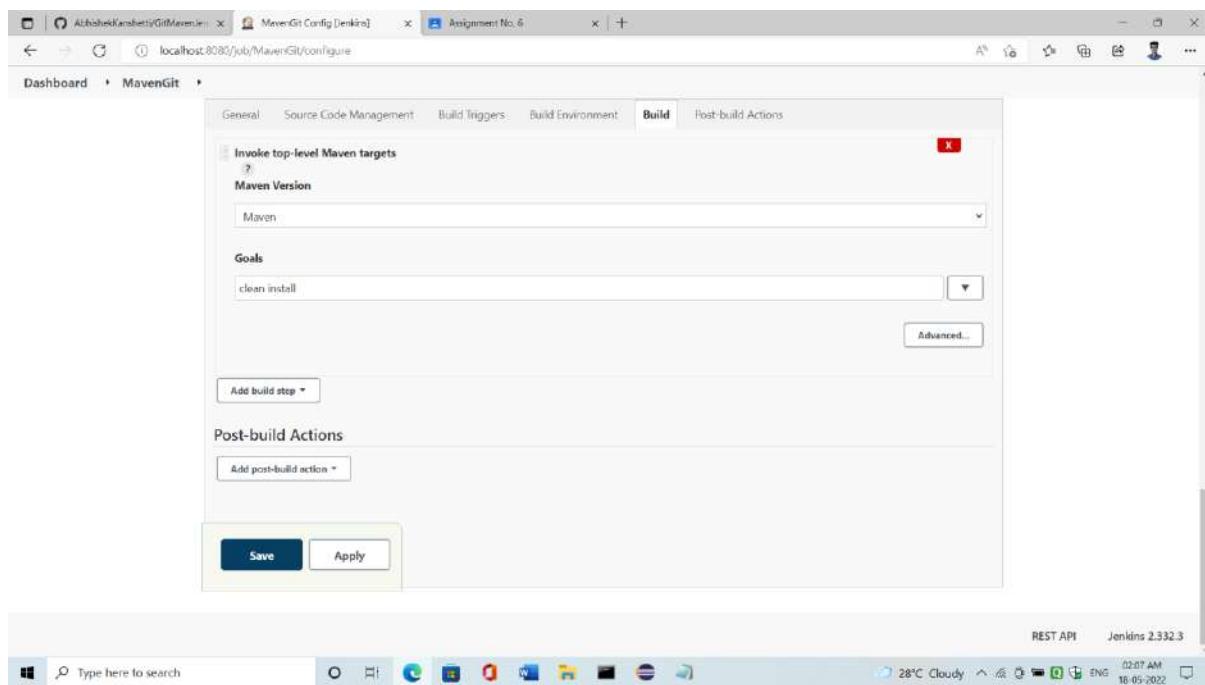
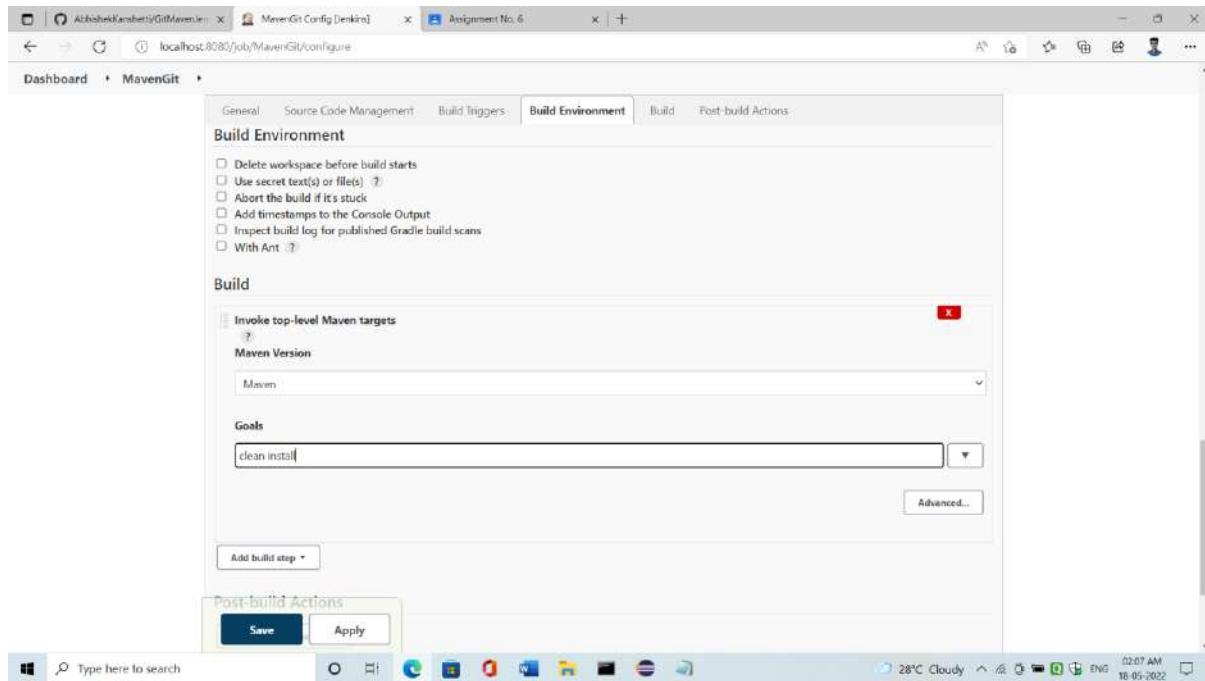
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Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
In Goals, Give command as “clean install”: -



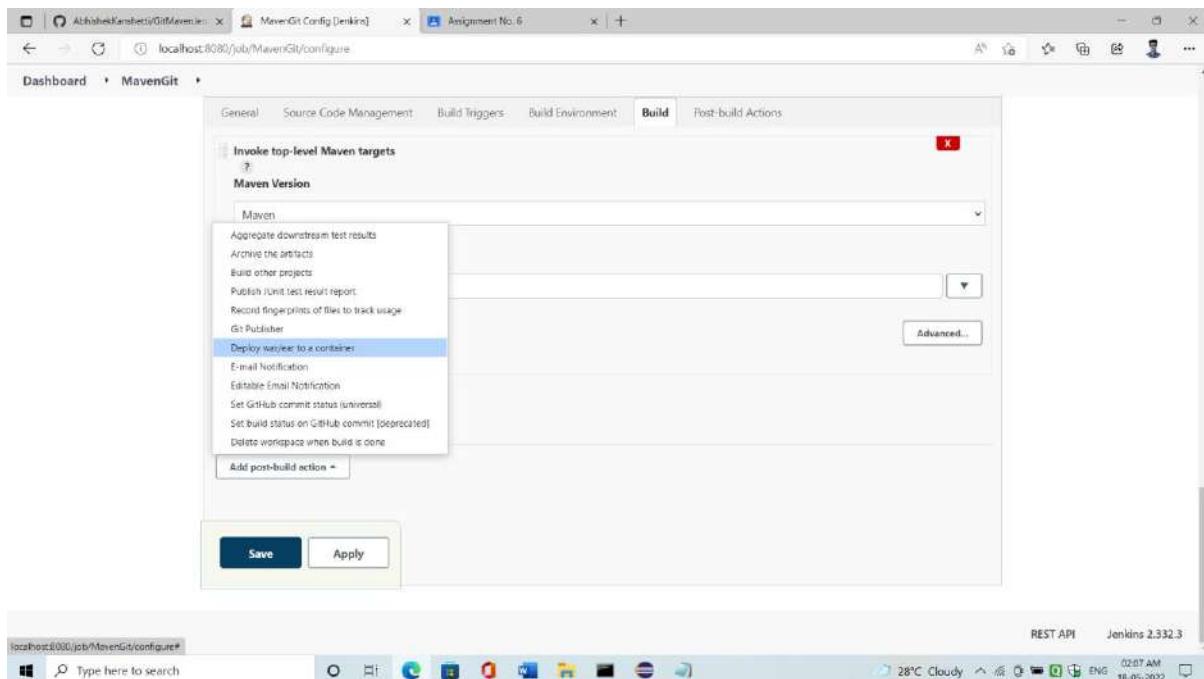
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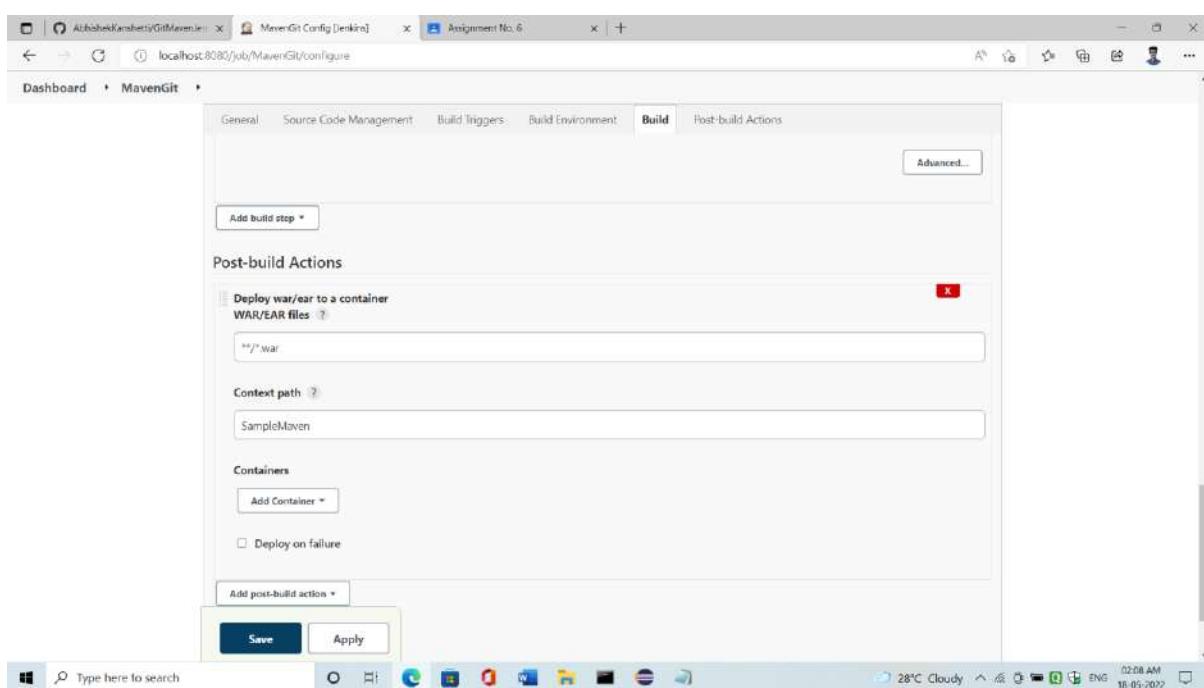
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
In post Build options, select option as “Deploy war/ear to a Container”: -



Enter the Post Building settings as follow: -



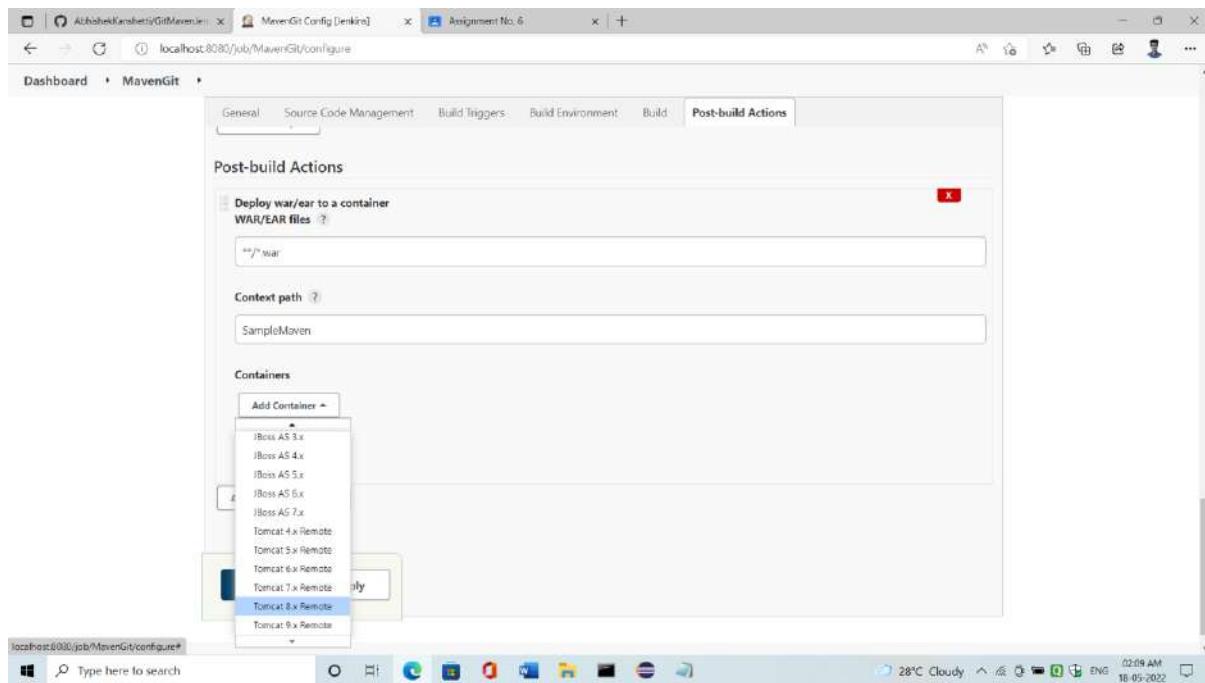
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Name: Abhishek Basavraj Kanshetti

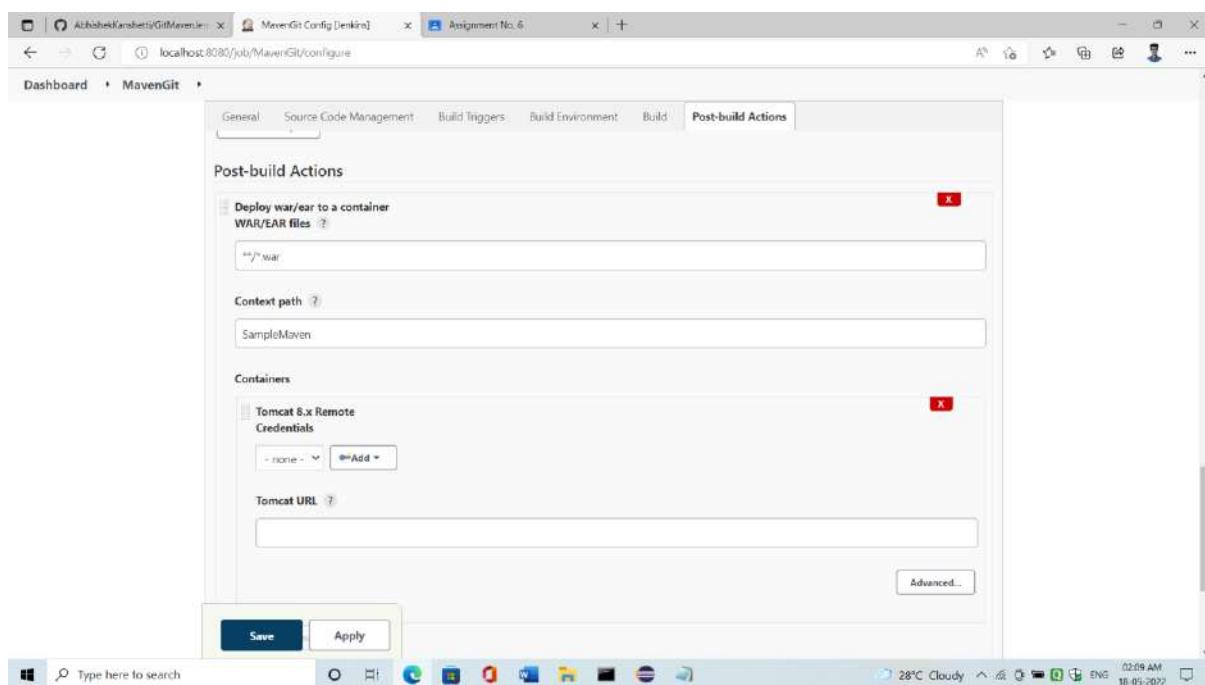
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Select the container as “Tomcat 8.x Remote”:-



Because our tomcat version is 8.5.



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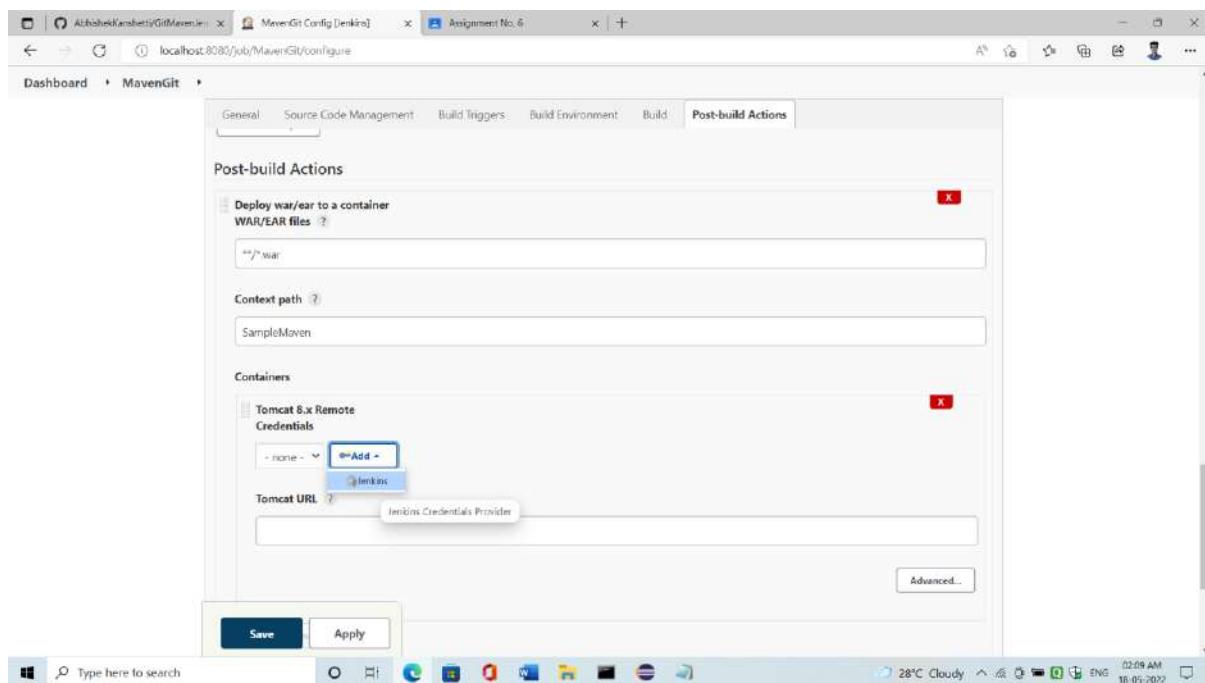
Name: Abhishek Basavraj Kanshetti

Roll No: 22

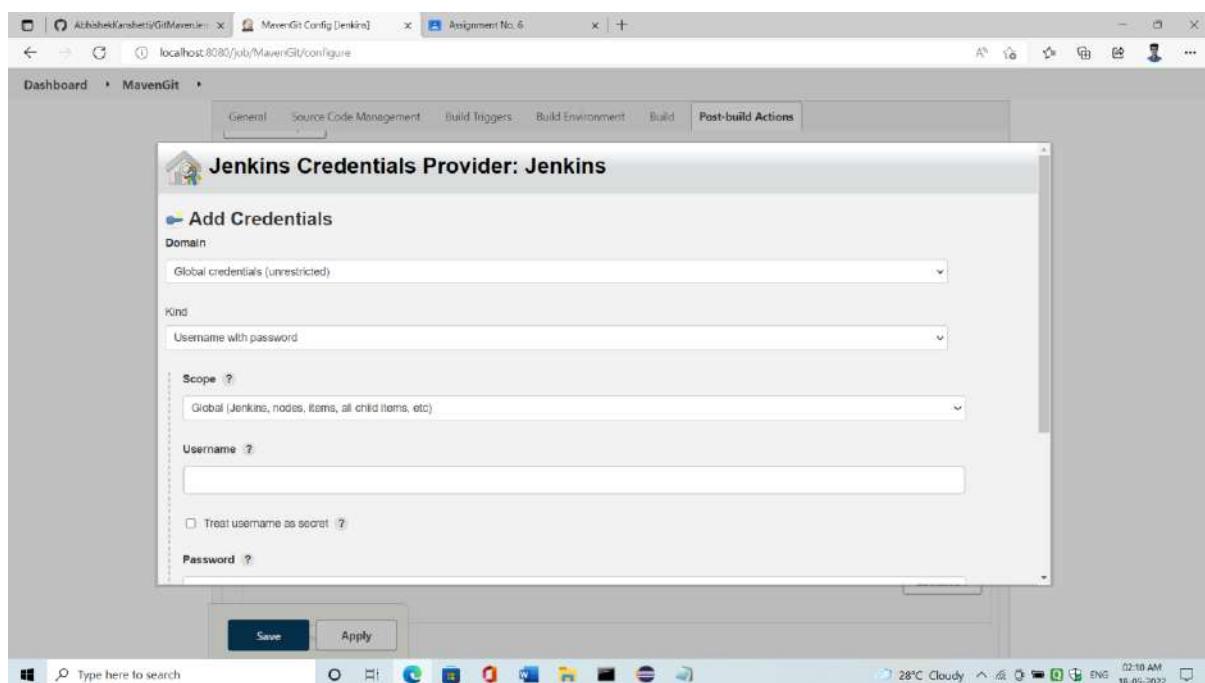
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

On click on add: -



Enter Credentials as follow: -



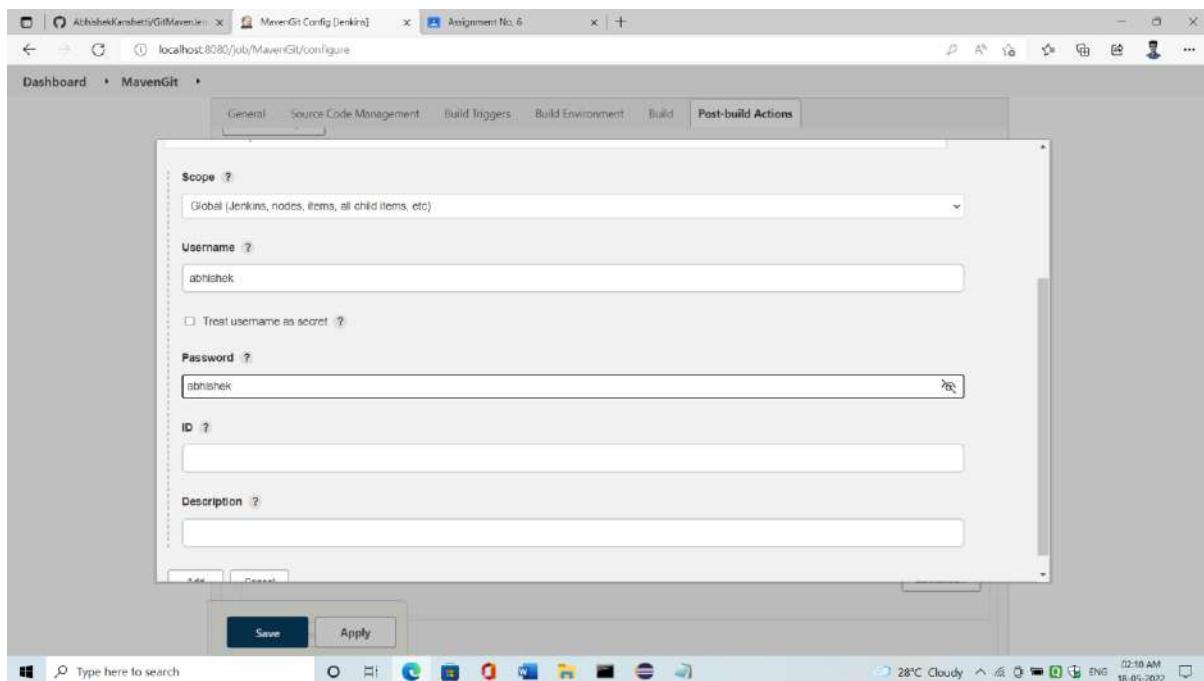
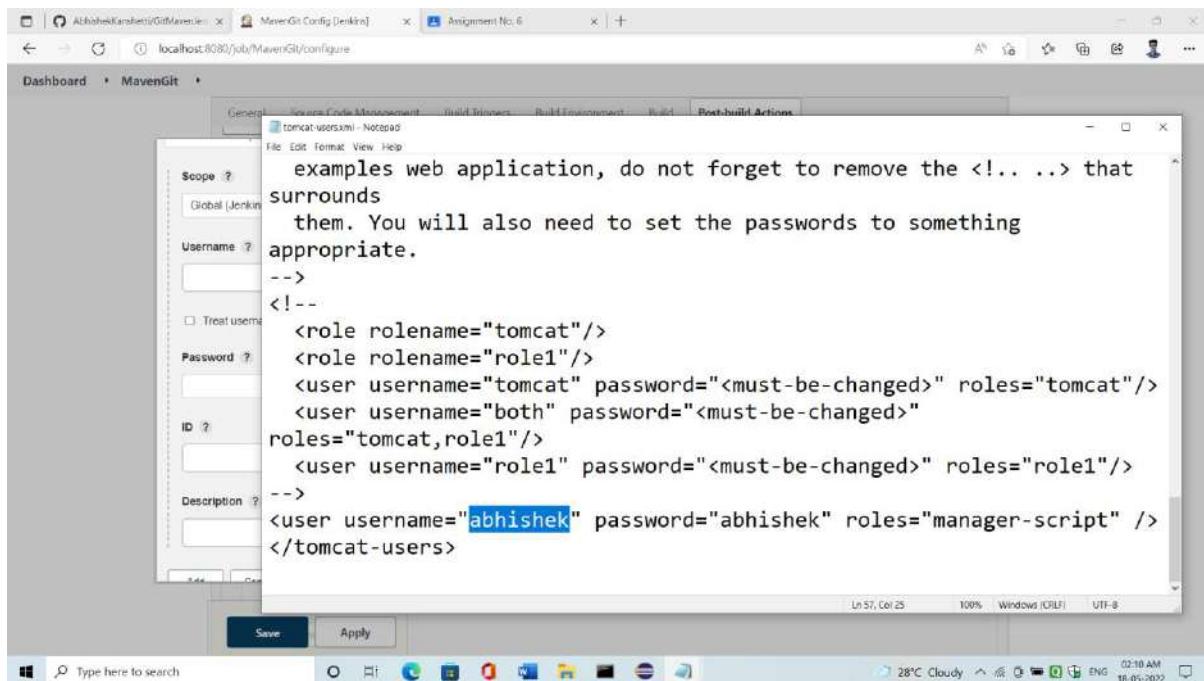
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Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



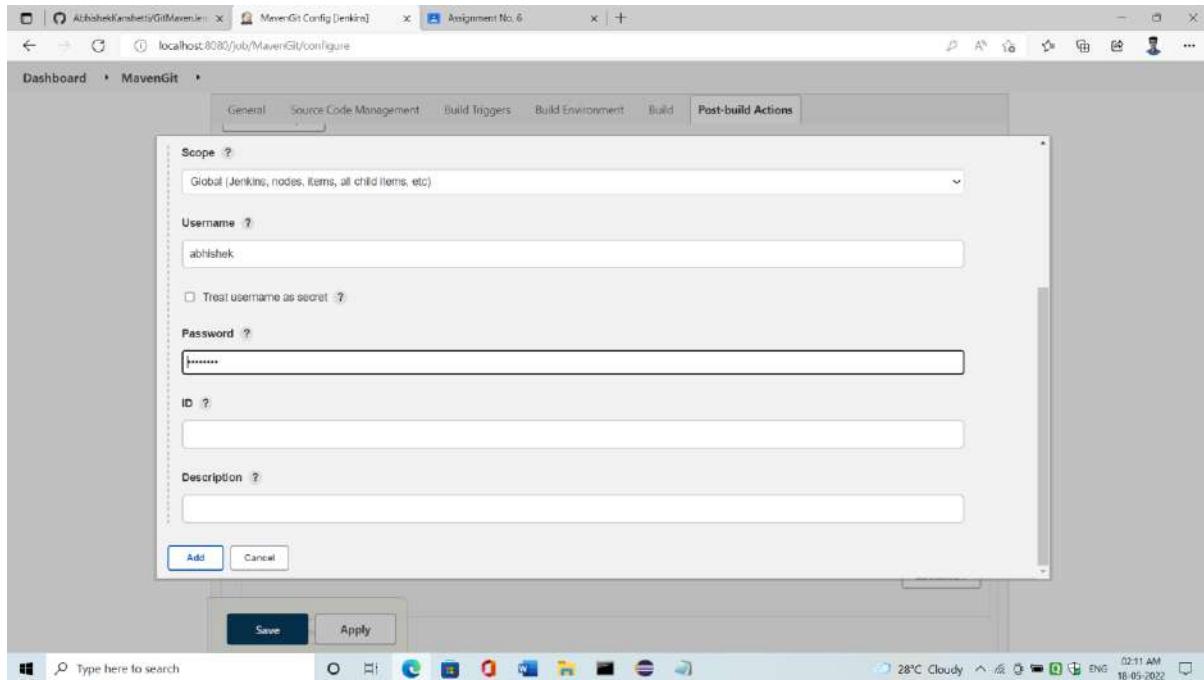
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Name: Abhishek Basavraj Kanshetti

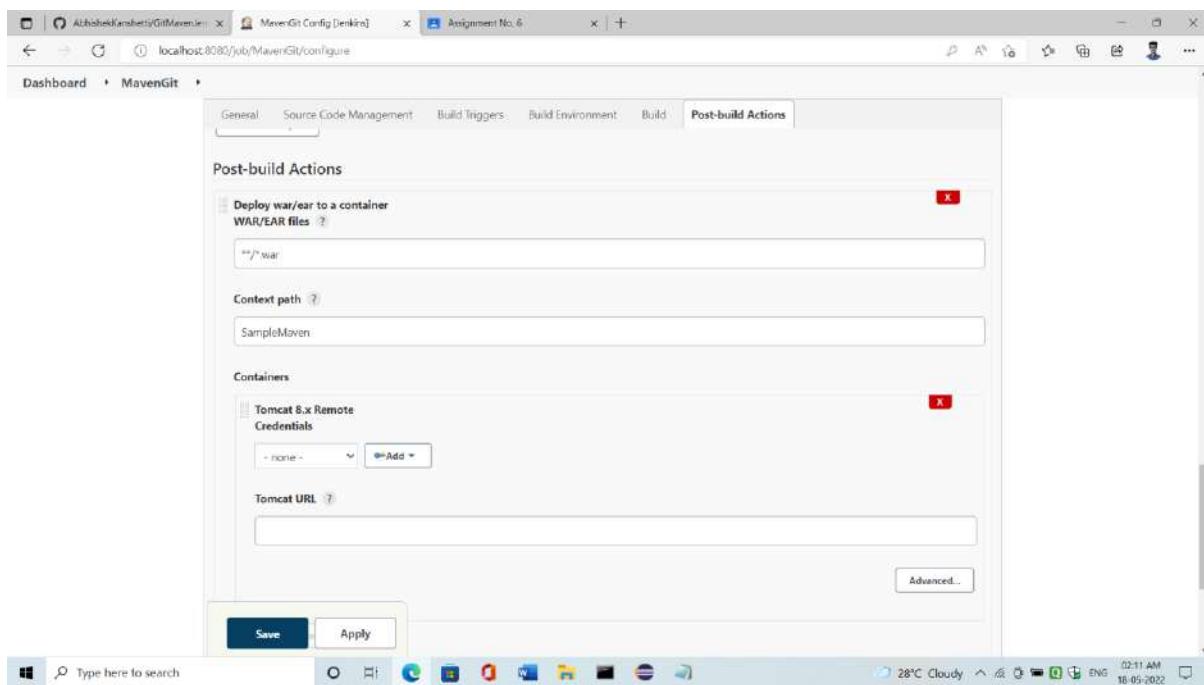
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



Click on add: -



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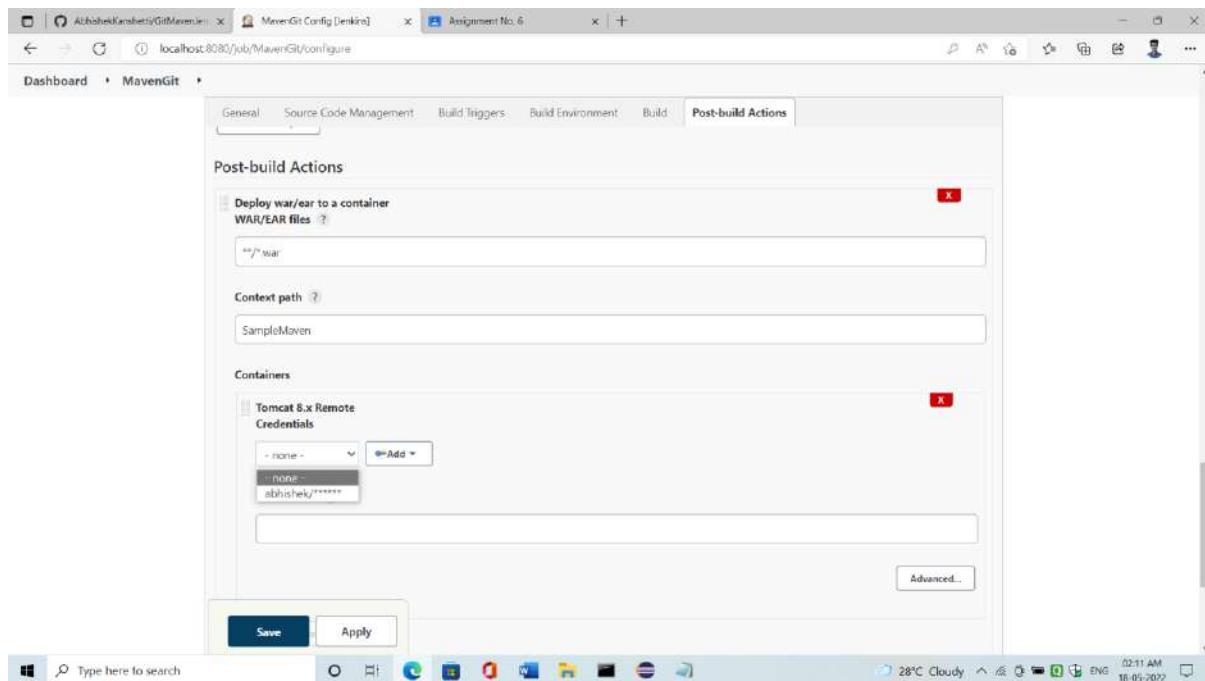
Name: Abhishek Basavraj Kanshetti

Roll No: 22

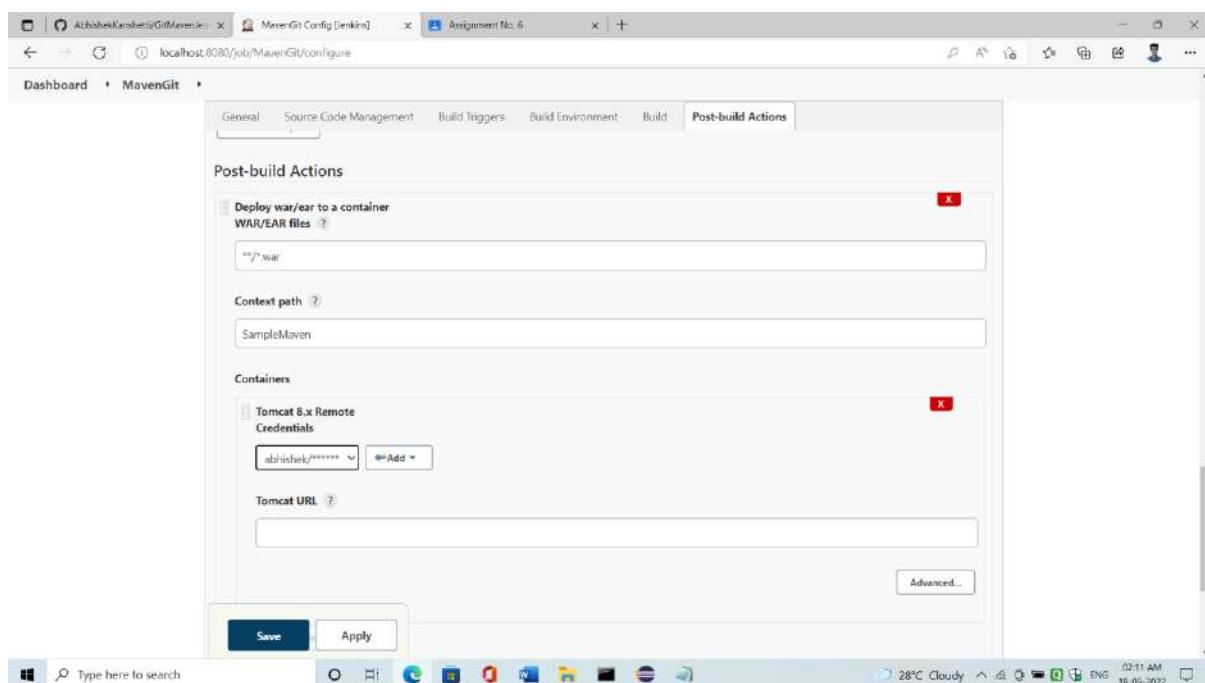
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

In Drop Down option select our credentials option: -



Enter Tomcat URL as follow: -



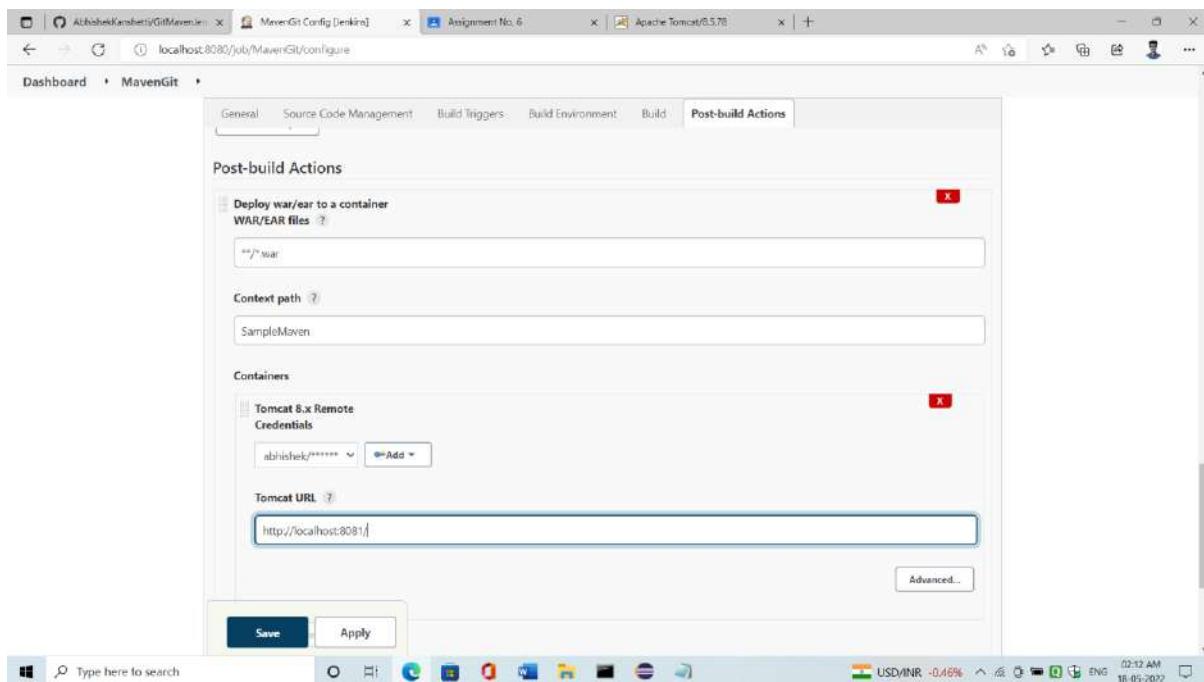
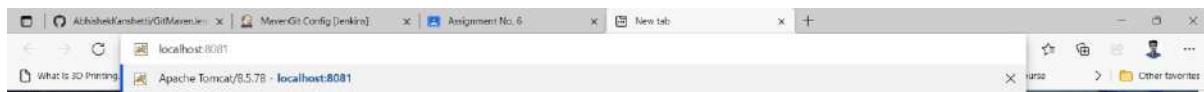
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Name: Abhishek Basavraj Kanshetti

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ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



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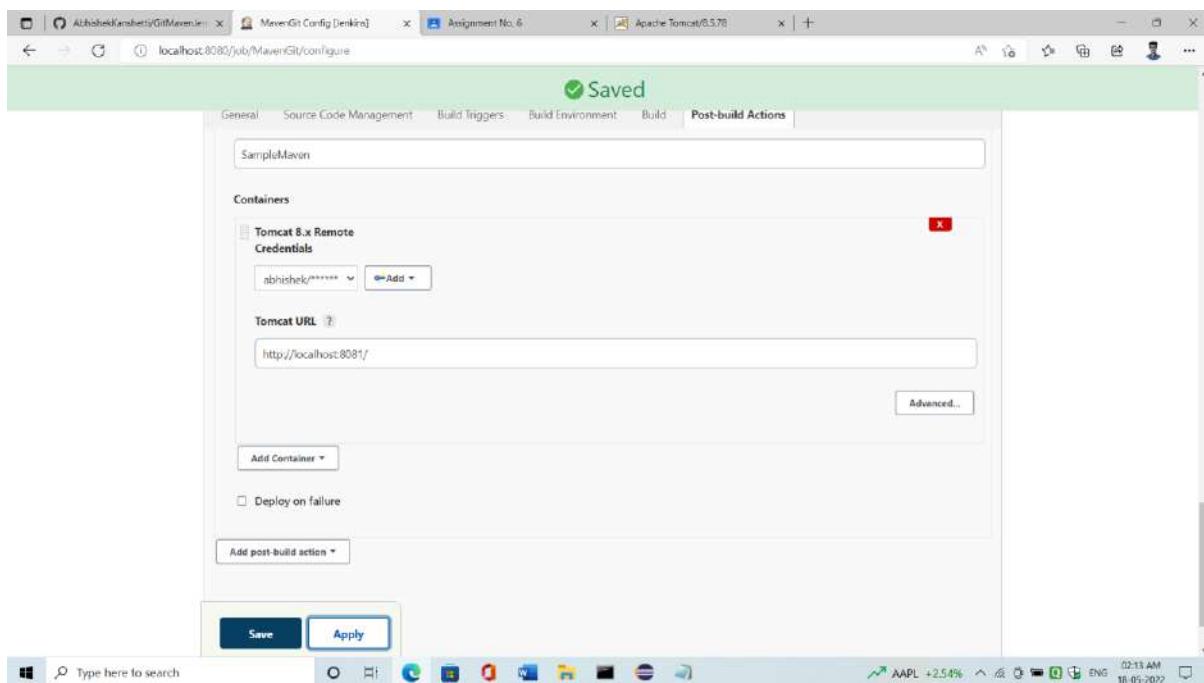
Name: Abhishek Basavraj Kanshetti

Roll No: 22

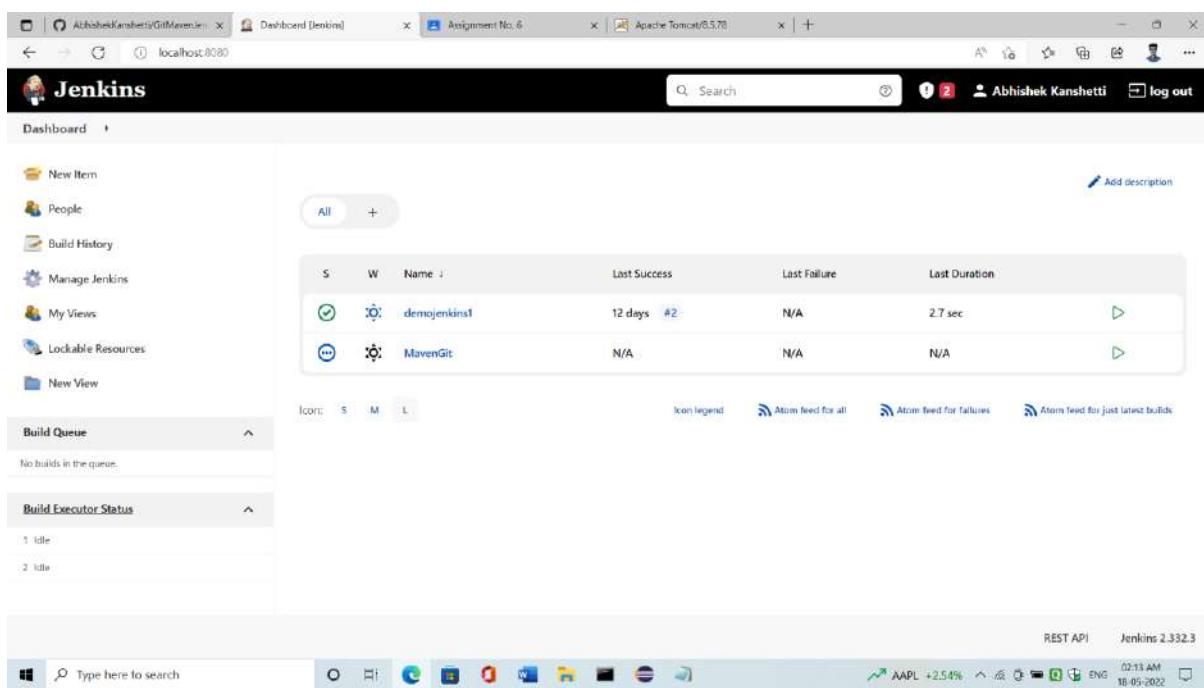
ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Now click on the Apply: -



Started the Job as follow: -



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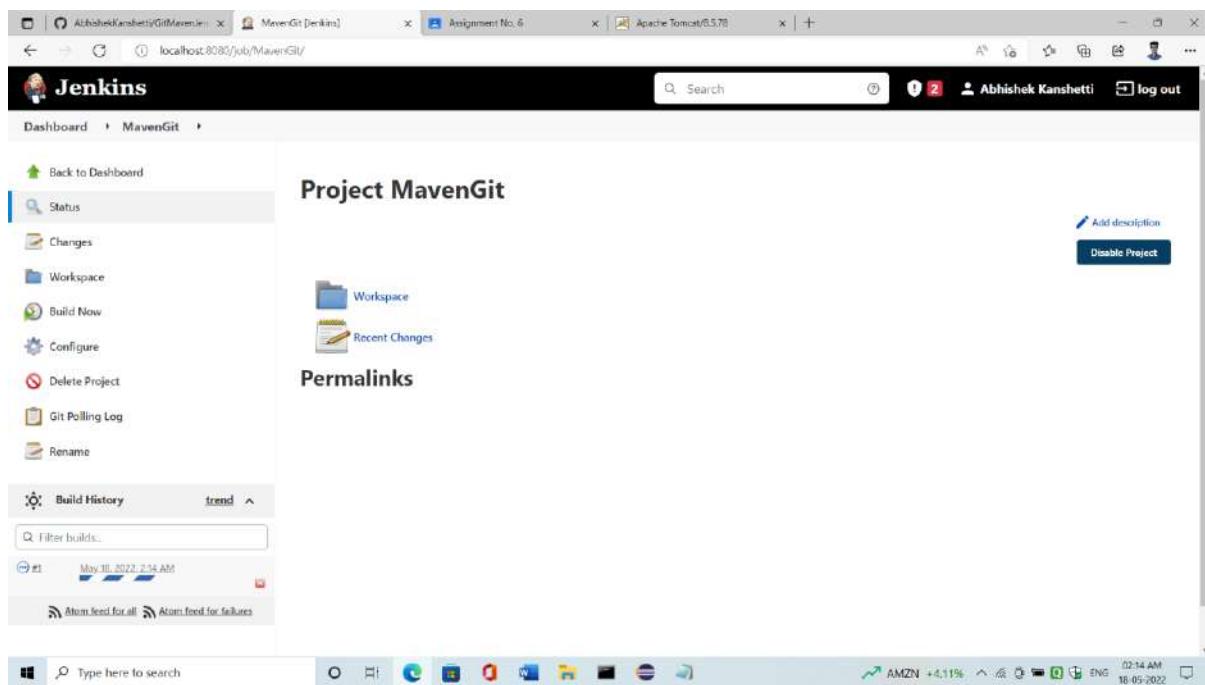
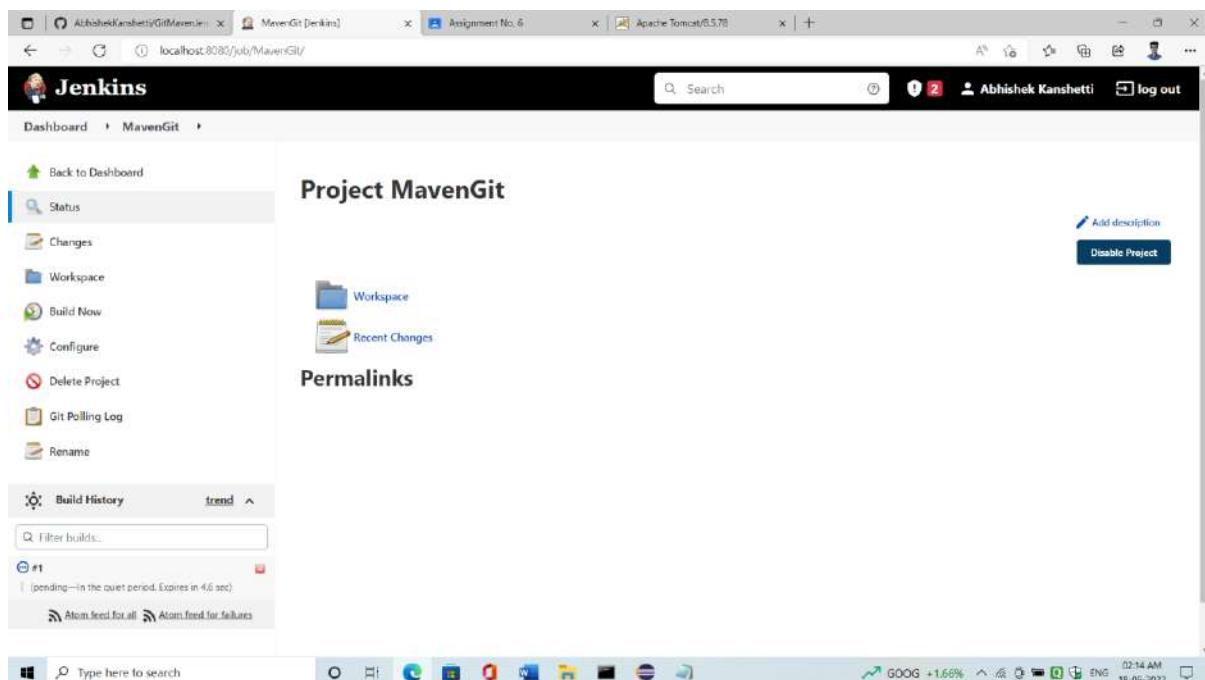
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Building Job as follow: -



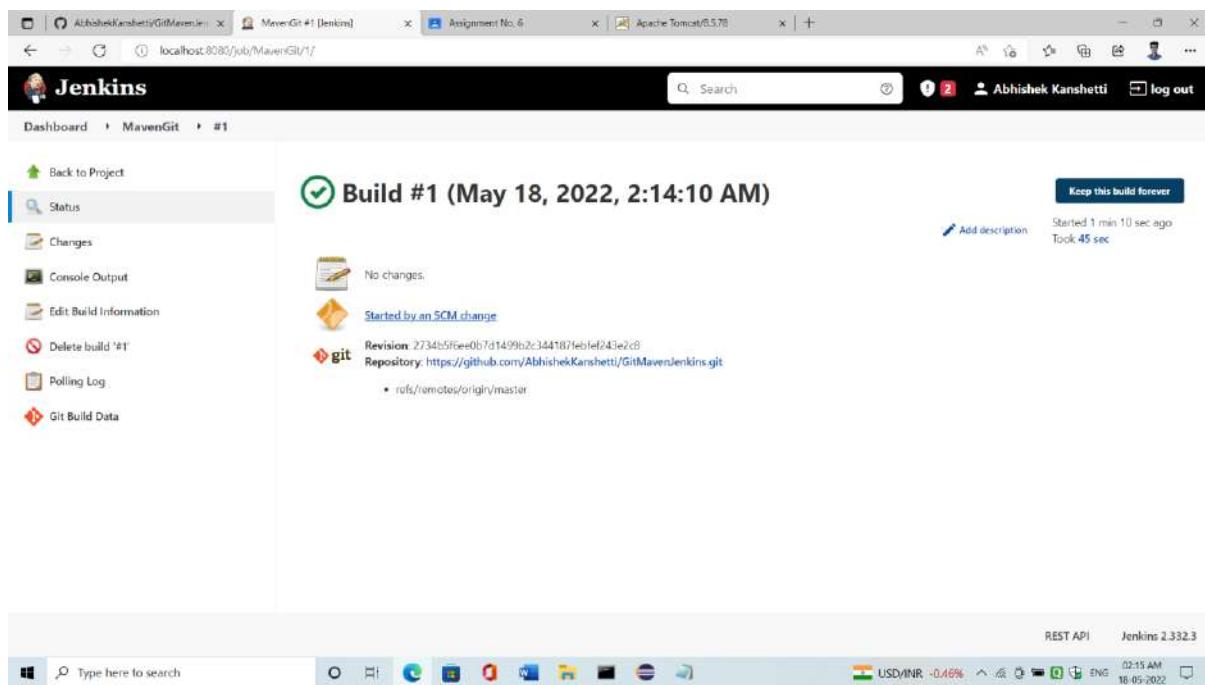
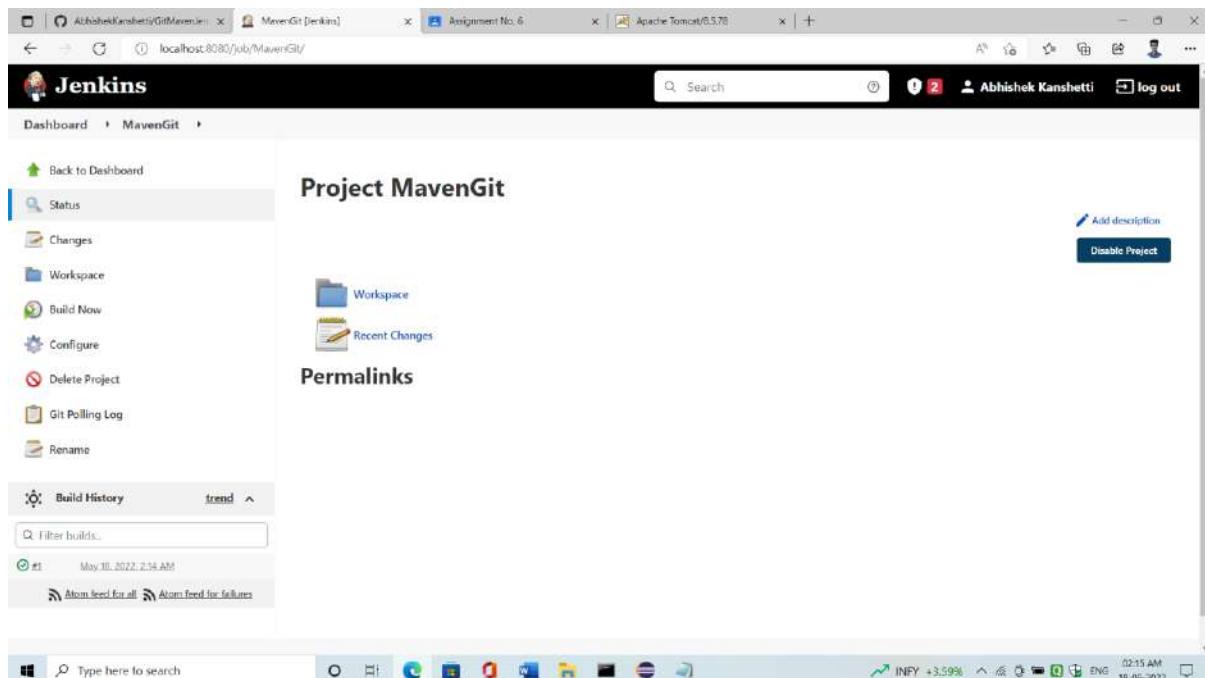
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Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Build Status is Successful as below: -



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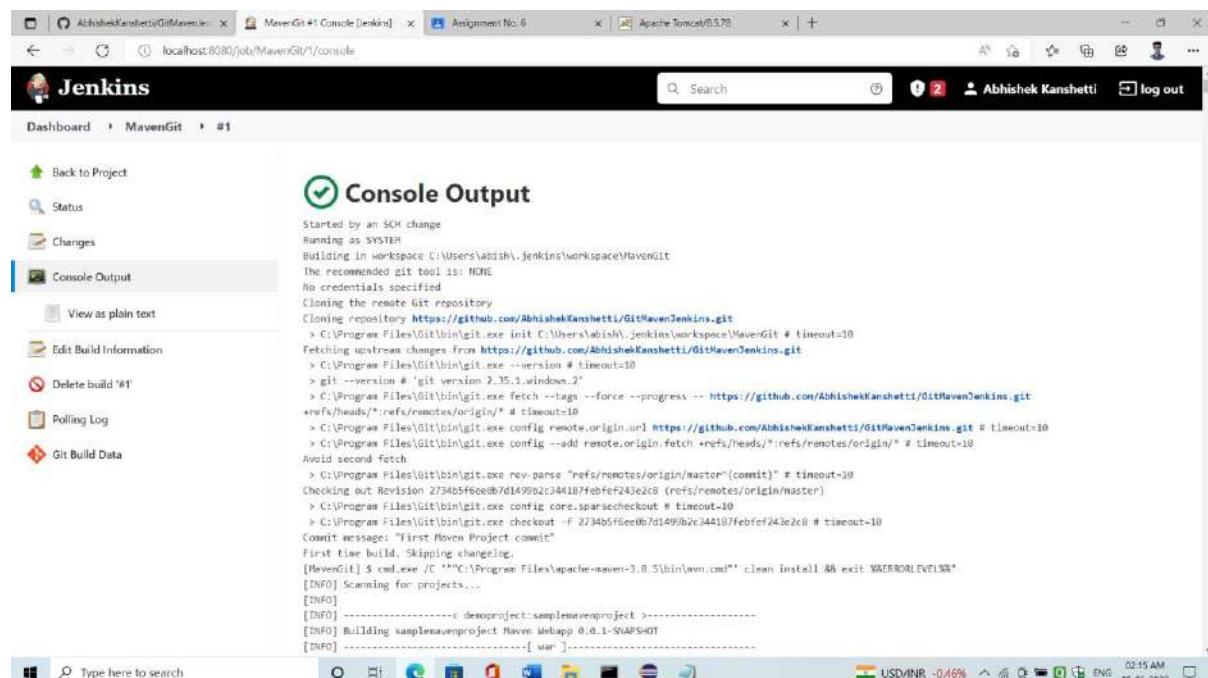
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

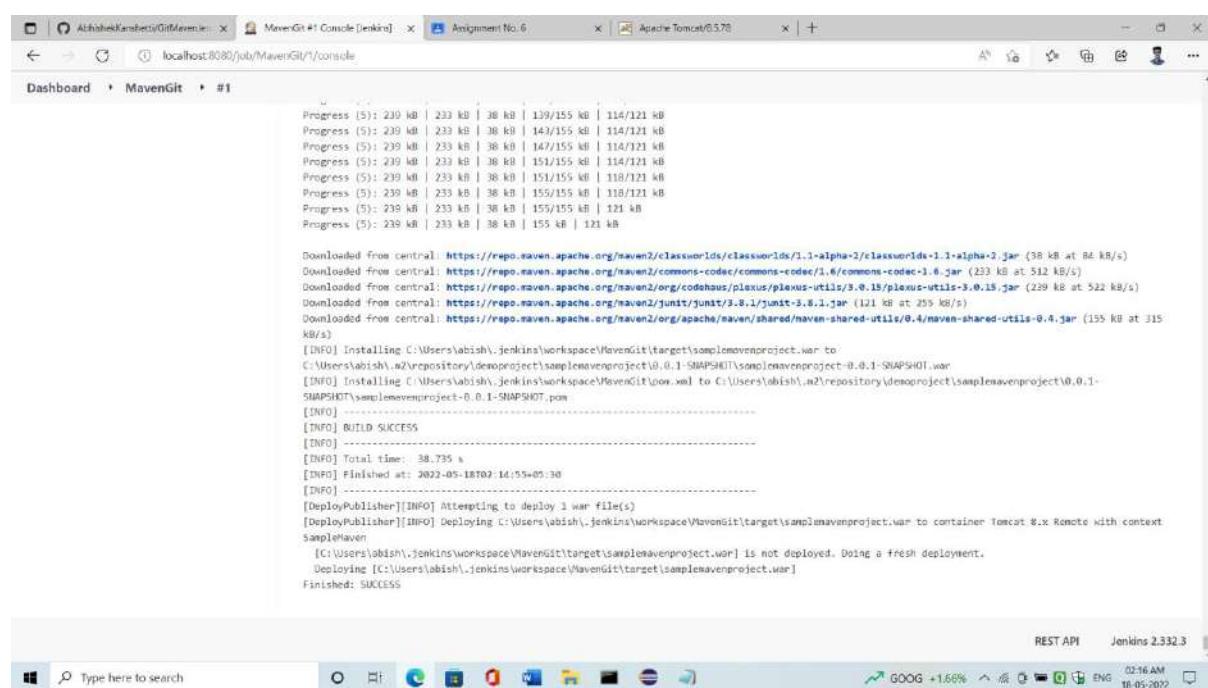
Console Output as follow: -



```

Started by an SCM change
Running as SYSTEM
Building in workspace C:\Users\abish\jenkins\workspace\MavenGit
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/AbhishekKanshetti/GitMavenJenkins.git
> C:\Program Files\Git\bin\git.exe init C:\Users\abish\jenkins\workspace\MavenGit # timeout=10
Fetching upstream changes from https://github.com/AbhishekKanshetti/GitMavenJenkins.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # git version 2.35.1.windows.2'
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/AbhishekKanshetti/GitMavenJenkins.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/AbhishekKanshetti/GitMavenJenkins.git # timeout=10
> C:\Program Files\Git\bin\git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> C:\Program Files\Git\bin\git.exe rev-parse --refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 2734b5f6ee0b7d1499b2c344187febfef243e26 (refs/remotes/origin/master)
> C:\Program Files\Git\bin\git.exe checkout -f 2734b5f6ee0b7d1499b2c344187febfef243e26 # timeout=10
Commit message: "First Maven Project commit"
First time build. Skipping cleanup...
[INFO] $ cmd.exe /C "C:\Program Files\apache-maven-3.8.0\bin\mvn.cmd" clean install && exit %ERRORLEVEL%
[INFO] Scanning for projects...
[INFO] ...
[INFO] ----->c: demoproject:samplemavenproject >-----
[INFO] Building samplemavenproject Maven Webapp 0.0.1-SNAPSHOT
[INFO] ...
-----{ war }

```



```

Progress (5): 239 kB | 233 kB | 38 kB | 139/155 kB | 114/121 kB
Progress (5): 239 kB | 233 kB | 38 kB | 143/155 kB | 114/121 kB
Progress (5): 239 kB | 233 kB | 38 kB | 147/155 kB | 114/121 kB
Progress (5): 239 kB | 233 kB | 38 kB | 151/155 kB | 114/121 kB
Progress (5): 239 kB | 233 kB | 38 kB | 151/155 kB | 118/121 kB
Progress (5): 239 kB | 233 kB | 38 kB | 152/155 kB | 118/121 kB
Progress (5): 239 kB | 233 kB | 38 kB | 155/155 kB | 118/121 kB
Progress (5): 239 kB | 233 kB | 38 kB | 155/155 kB | 121 kB
Progress (5): 239 kB | 233 kB | 38 kB | 155 kB | 121 kB
Downloaded from central: https://repo.maven.apache.org/maven2/classworlds/1.1-alpha-2/classworlds-1.1-alpha-2.jar (38 kB at 84 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/commons-codoc/1.6/commons-codoc-1.6.jar (233 kB at 512 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/pluto/pluto-utilis/3.0.18/pluto-utilis-3.0.18.jar (239 kB at 522 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.jar (121 kB at 255 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar (155 kB at 315 kB/s)
[INFO] Installing C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war to C:\Users\abish\.m2\repository\demoproject\0.0.1-SNAPSHOT\samplemavenproject-0.0.1-SNAPSHOT.war
[INFO] Installing C:\Users\abish\jenkins\workspace\MavenGit\pom.xml to C:\Users\abish\.m2\repository\demoproject\0.0.1-SNAPSHOT\samplemavenproject-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 38.735 s
[INFO] Finished at: 2022-05-18T02:14:55+05:30
[INFO] -----
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war to container Tomcat 8.x Remote with context SampleMaven
[C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war] is not deployed. Doing a fresh deployment.
Deploying [C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war]
Finished: SUCCESS

```

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Name: Abhishek Basavraj Kanshetti

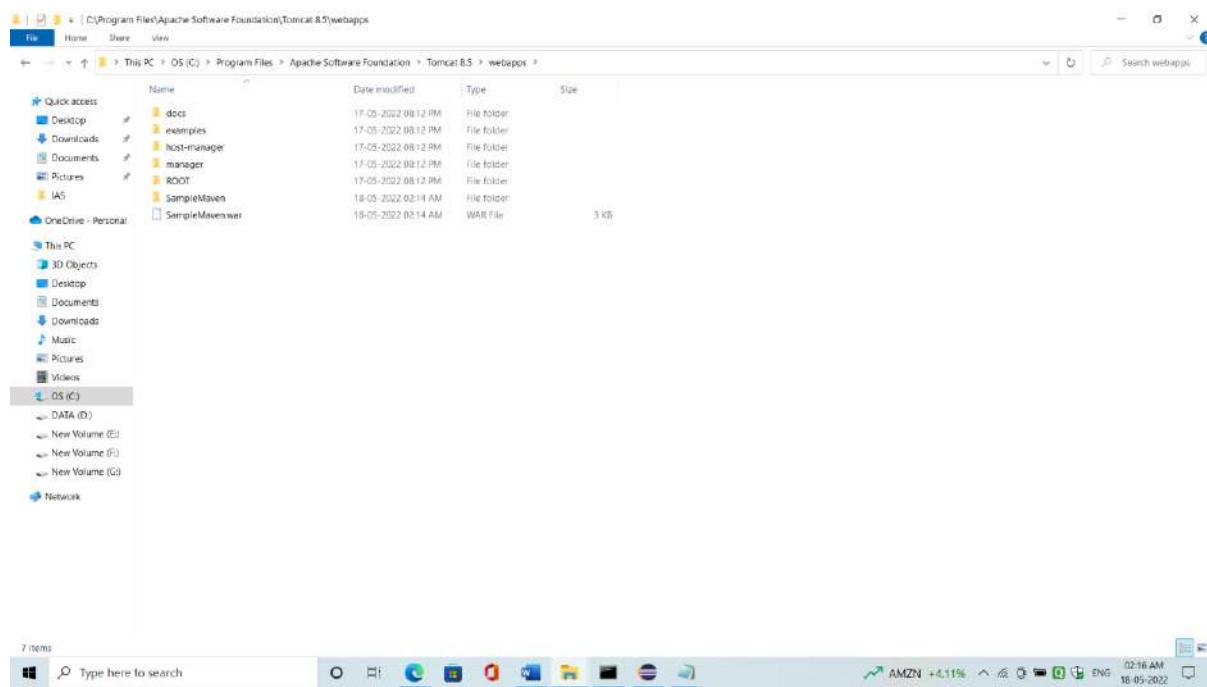
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

War files are automatically generated in webapps folder as below:

=



In this folder you can see samplmaven and samplmaven.jar file as above: -

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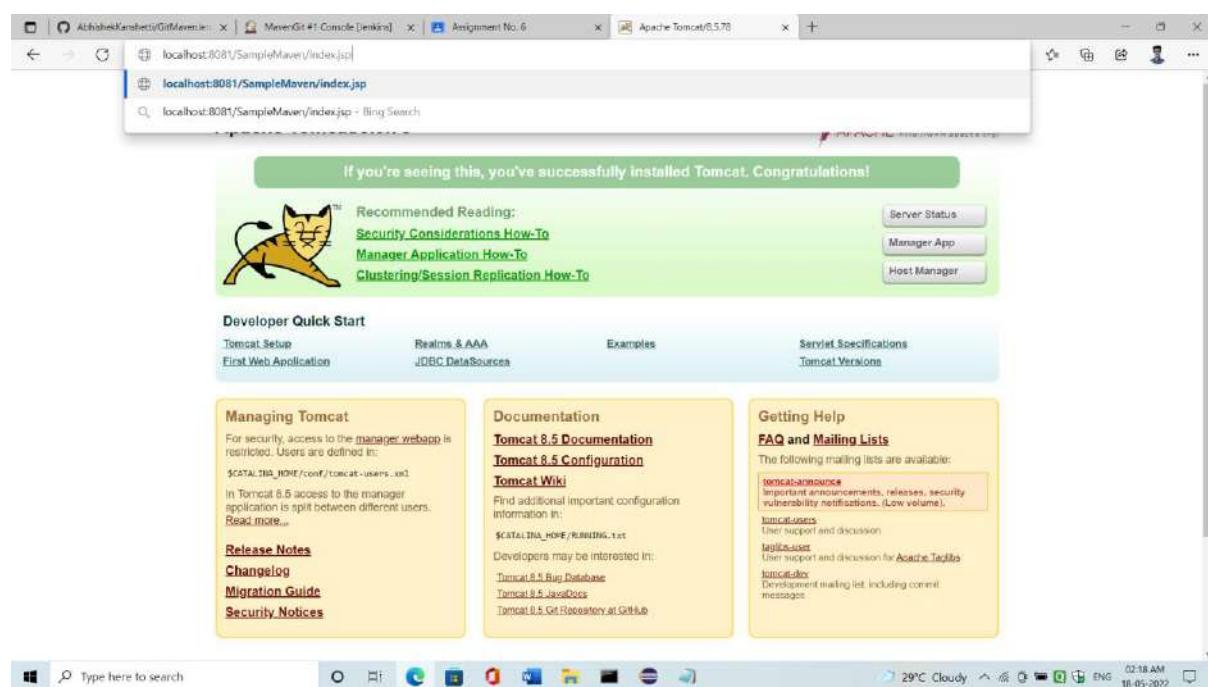
Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



Now we will enter the URL for deployed app as follow:-



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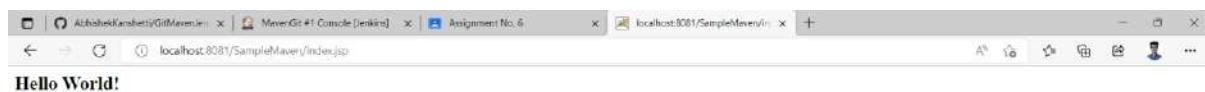
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

We get the Output as follow: -



Now we change the index.jsp in git and will see build will be automatically generated or not: -



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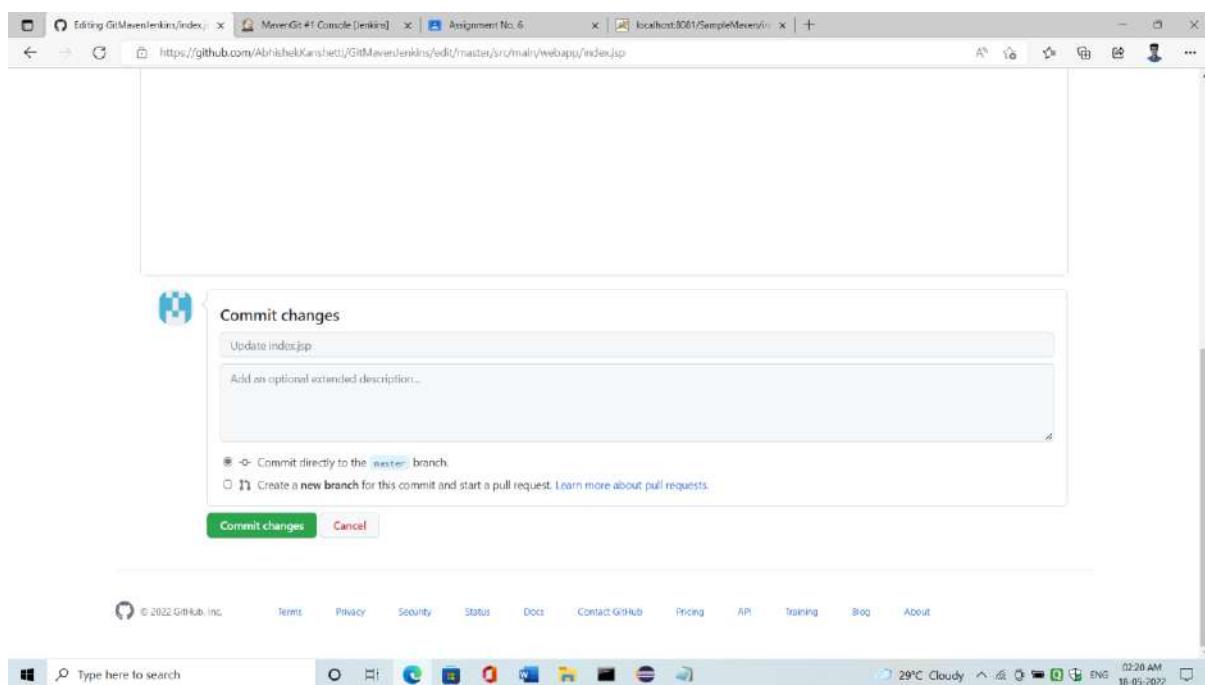
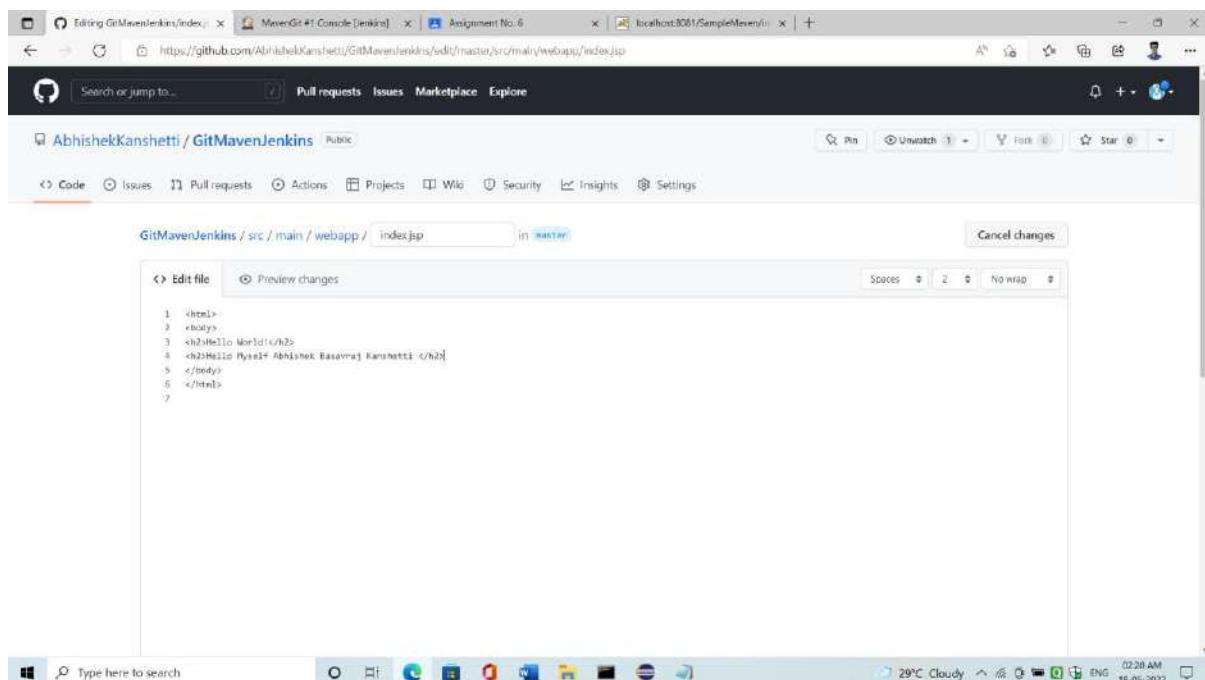
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

Made Changes and committed as below:-



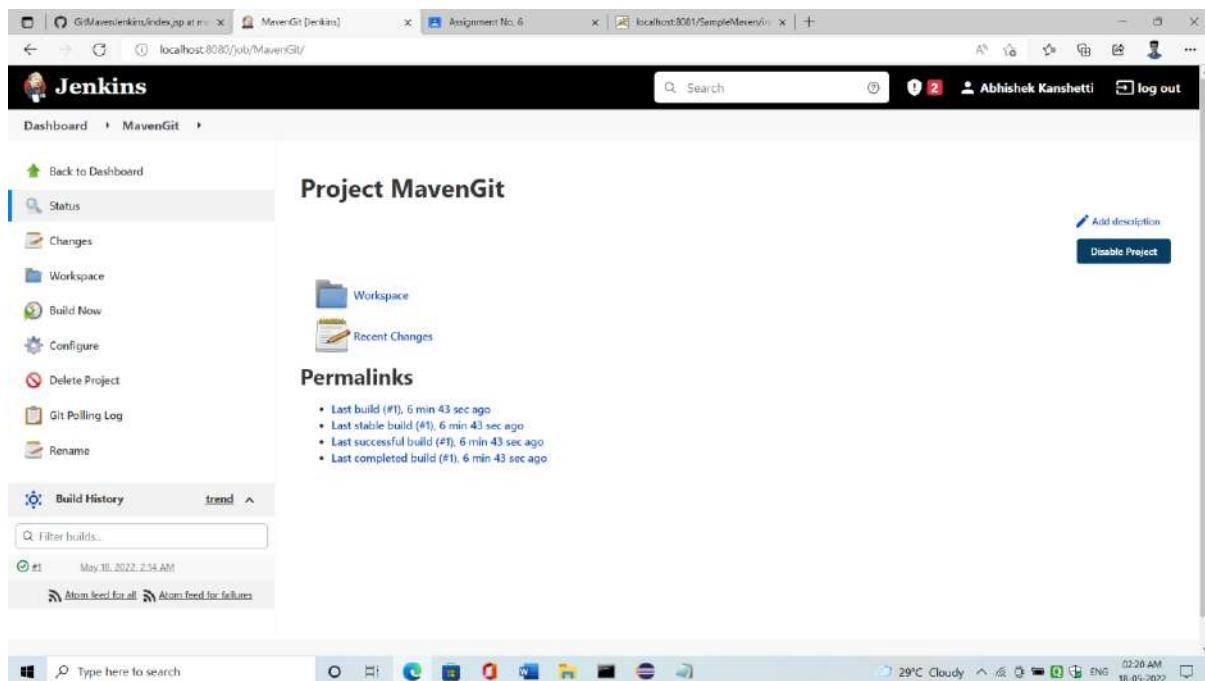
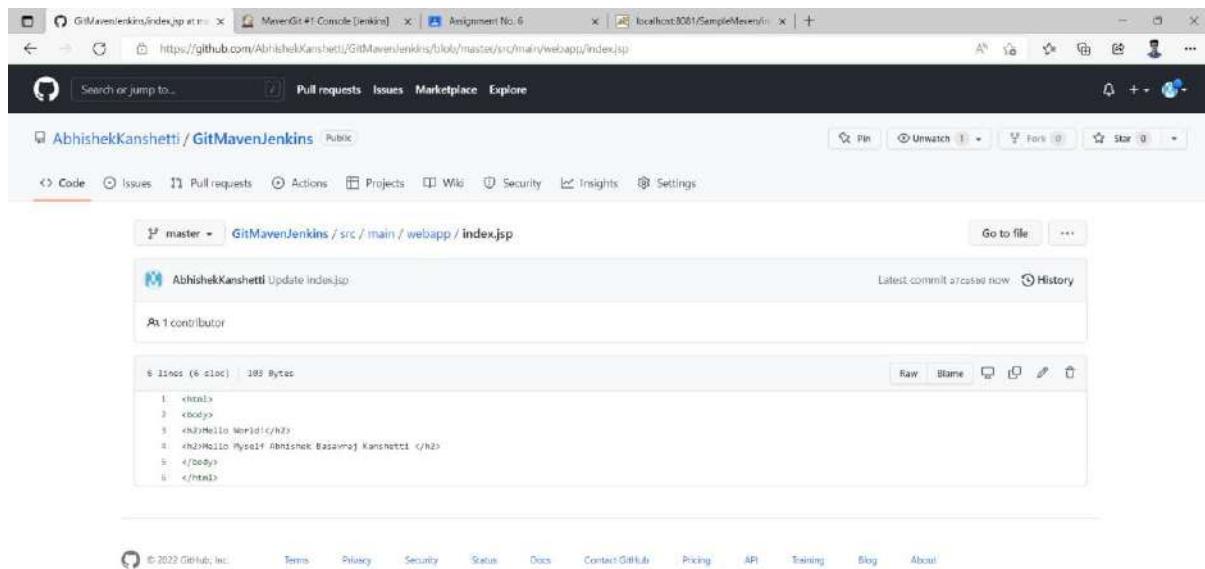
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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



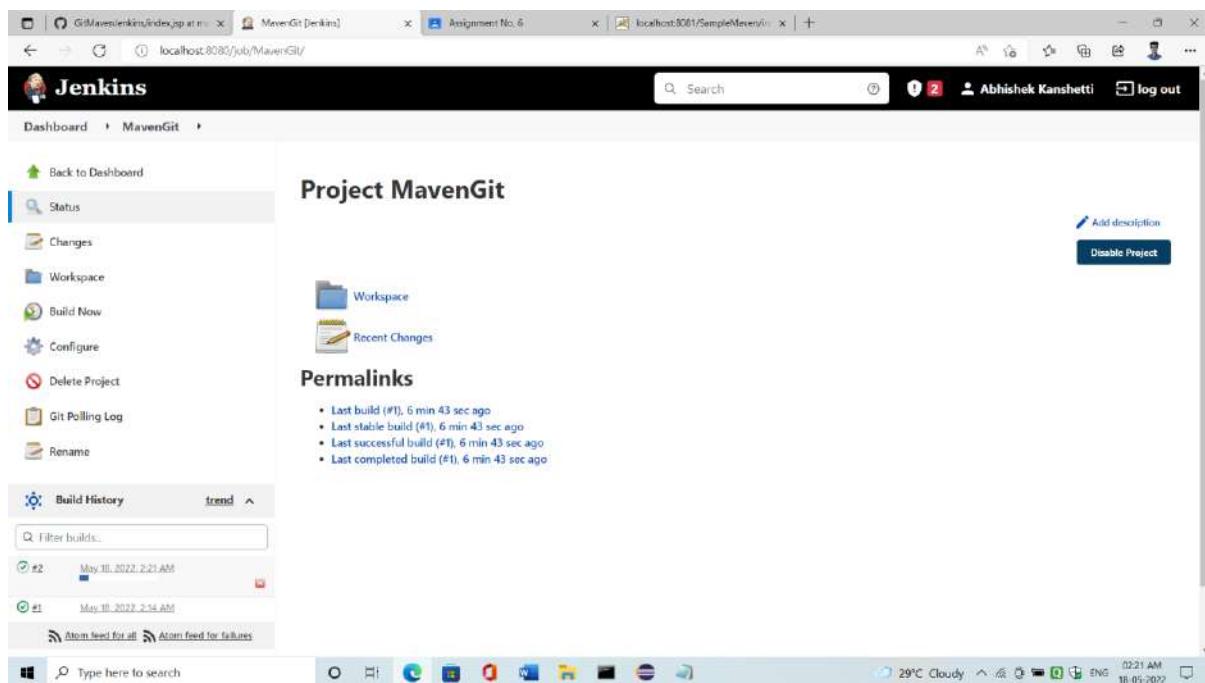
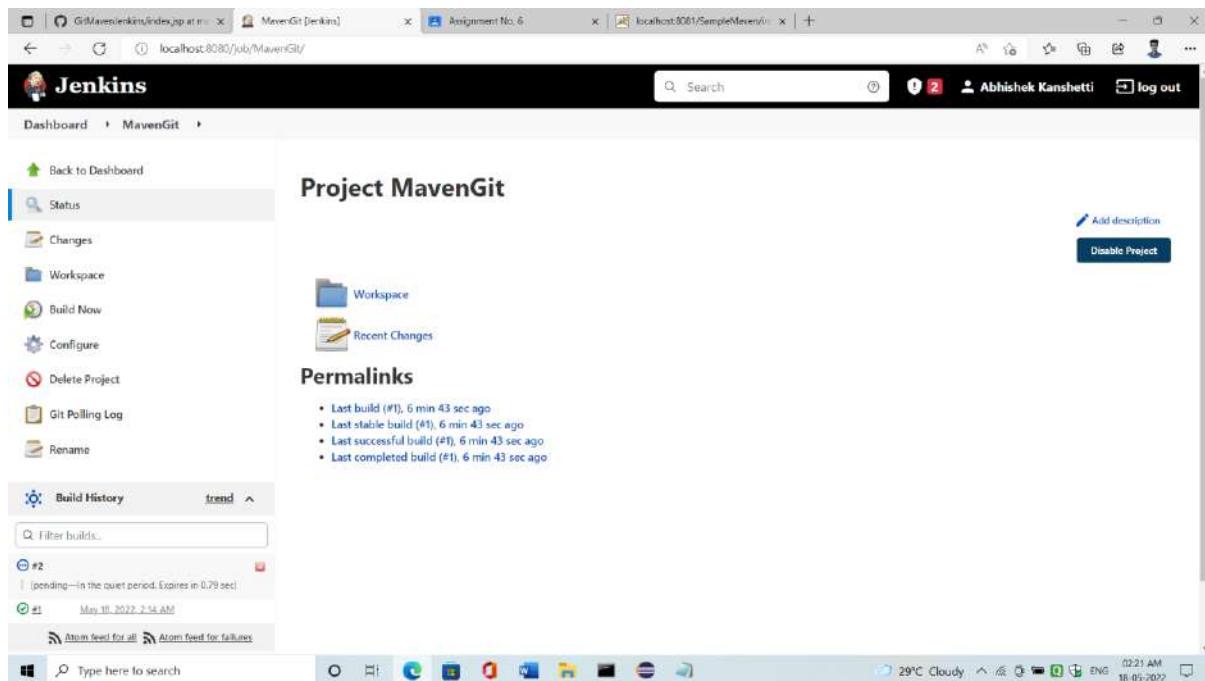
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"
Here we can see the new build is automatically generated: -



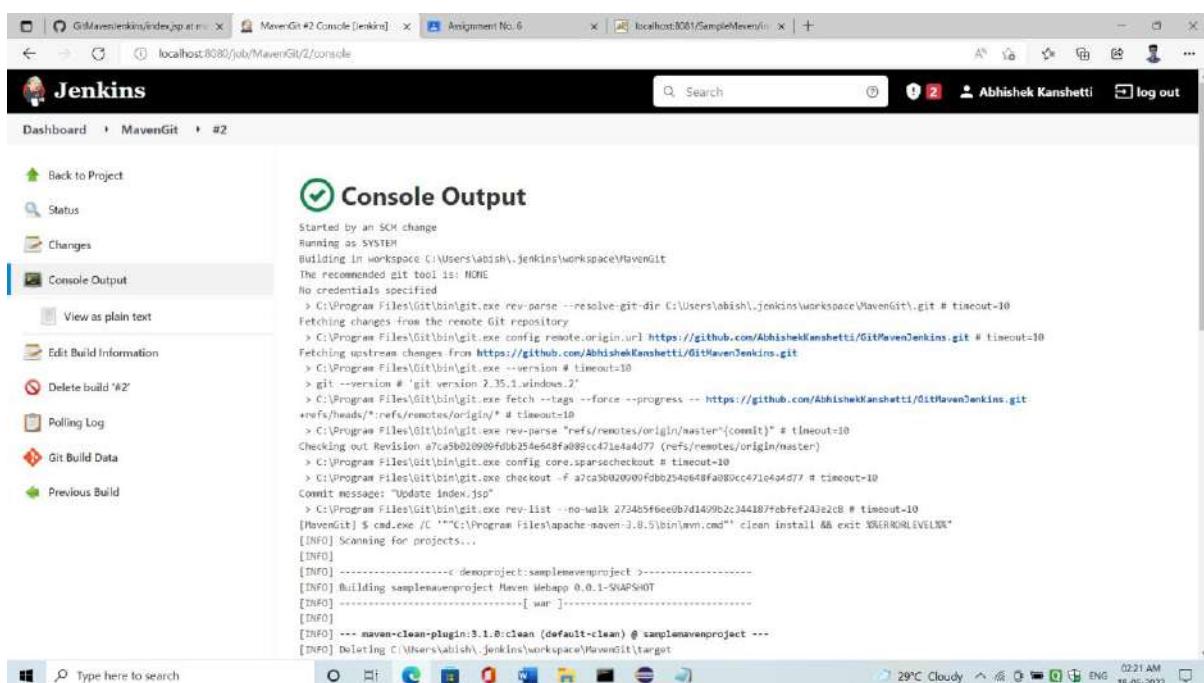
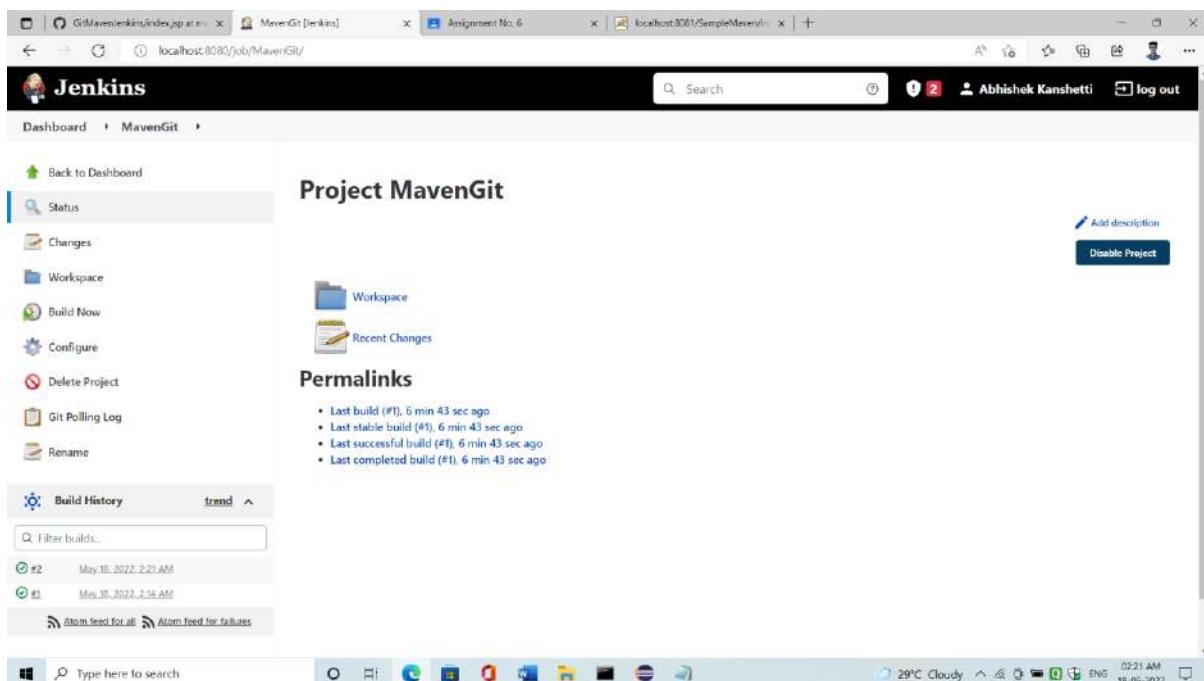
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"



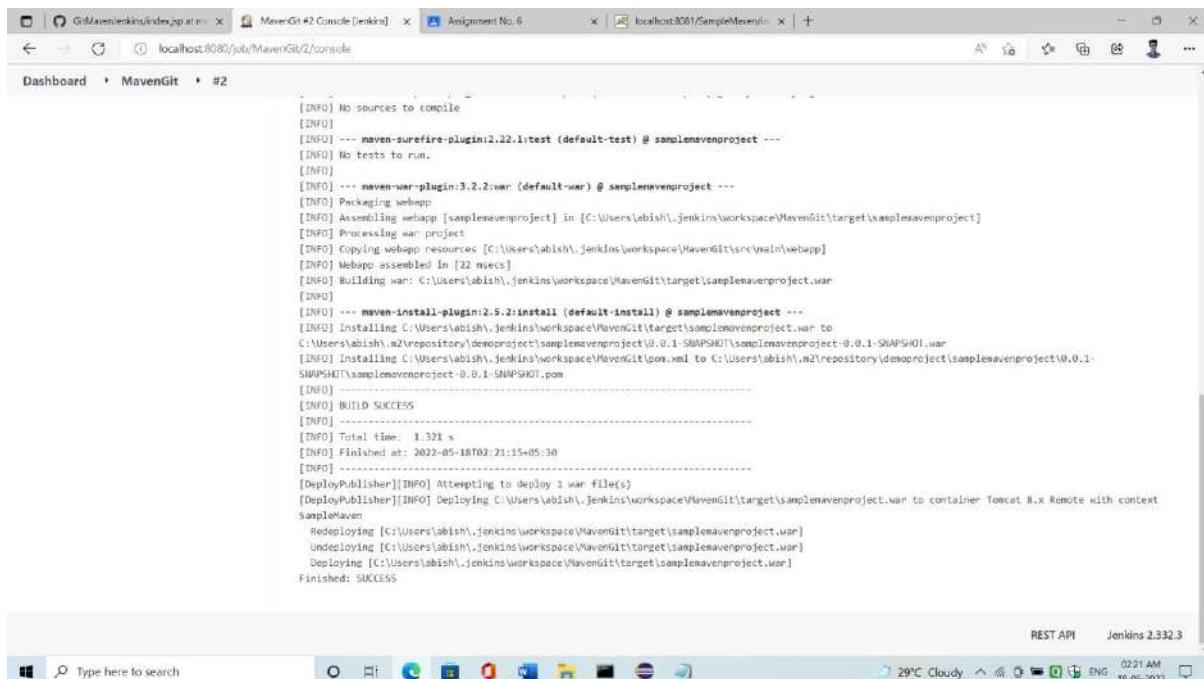
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INFORMATION TECHNOLOGY
2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 6

Title: Automate Deployment using Jenkins plugin "Deploy to container"

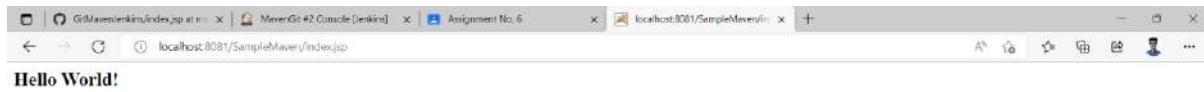


The screenshot shows a Windows desktop environment with a taskbar at the bottom. On the taskbar, there are several icons including the Start button, a search bar, and system status indicators like battery level and network connection. There are four open browser tabs in the background:

- G:\Mavenjenkins/index.jsp at m...
- MavenGit #2 Console [Jenkins] - Jenkins console output for job MavenGit #2.
- Assignment No. 6
- localhost:8081/SampleMaven/in...

The Jenkins console tab displays the following log output:

```
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ samplemavenproject ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:3.2.2:war (default-war) @ samplemavenproject ---
[INFO] Packaging webapp
[INFO] Assembling webapp [samplemavenproject] in [C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Users\abish\jenkins\workspace\MavenGit\src\main\webapp]
[INFO] Webapp assembled in [22 msecs]
[INFO] Building war: C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ samplemavenproject ---
[INFO] Installing C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war to C:\Users\abish\.m2\repository\demoproject\samplemavenproject\0.0.1-SNAPSHOT\samplemavenproject-0.0.1-SNAPSHOT.war
[INFO] Installing C:\Users\abish\jenkins\workspace\MavenGit\pom.xml to C:\Users\abish\.m2\repository\demoproject\samplemavenproject\0.0.1-SNAPSHOT\samplemavenproject-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time:  1.321 s
[INFO] Finished at: 2022-05-18T02:23:15+05:30
[INFO] -----
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war to container Tomcat 8.x Remote with context SampleMaven
  Redeploying [C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war]
  Undeploying [C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war]
  Deploying [C:\Users\abish\jenkins\workspace\MavenGit\target\samplemavenproject.war]
Finished: SUCCESS
```



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Title: Automate Deployment using Jenkins plugin "Deploy to container"

Now refresh this page and we will get new output as follow: -



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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin

Aim:

Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin.

Problem statement:

Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin to Implement Continuous Deployment and Delivery of a Project.

Submit pdf file with all steps and screenshots.

Output Screenshots:

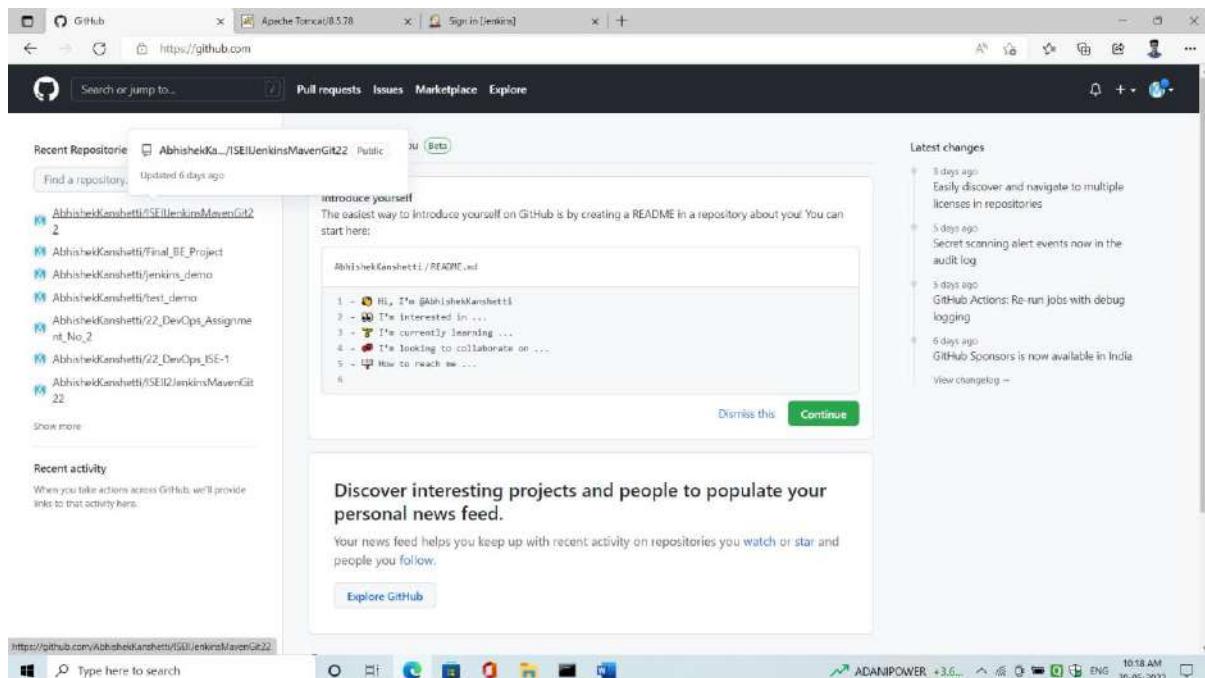
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DEVOPS

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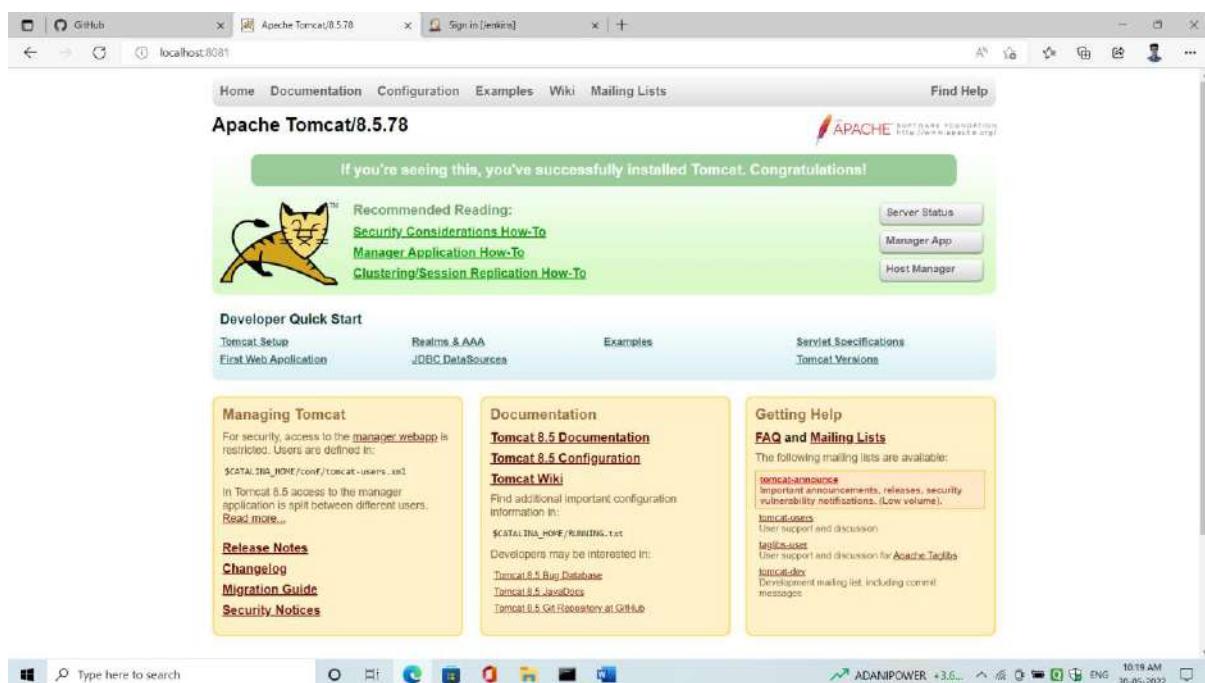
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Sign In to GitHub Account: -



We have started a Tomcat Server: -



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Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
We have started Jenkins as follow: -



```
C:\Windows\System32\cmd.exe - java -jar jenkins.war --enable-future-java
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\Jenkins>java -jar jenkins.war --enable-future-java
May 30, 2022 10:18:03 AM Main verifyJavaVersion
WARNING: Running with Java class version 59 which is not in the list of supported versions: [52, 55]. Argument --enable-future-java set to true so we continue. See https://jenkins.io/redirect/java-support/
Current front-end files Jenkins/Jenkins.war
webroot: $user.home/jenkins
2022-05-30 04:48:04.194+0000 [id:1] INFO org.eclipse.jetty.util.log.Log initialized @696ms
o.org.eclipse.jetty.util.log.JavaUtilLog
2022-05-30 04:48:04.256+0000 [id:1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2022-05-30 04:48:04.272+0000 [id:1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2022-05-30 04:48:04.334+0000 [id:1] INFO org.eclipse.jetty.server.Server#doStart: Jetty-9.4.43.v20210629, built:2021-06-30T11:07:22.254Z; git:52e098ecfa3f7fa27ef3a288c254f7ea9dd7e8; jvm 15.0.2+7-27
2022-05-30 04:48:04.387+0000 [id:1] INFO o.e.j.u.StandardDescriptorProcessor#visitServlet: NO JSP Support for /,
and find org.eclipse.jetty.jsp.JettyJspServlet
2022-05-30 04:48:05.629+0000 [id:1] INFO o.e.j.s.DefaultSessionIdManager#doStart: DefaultSessionIdManager works
Name-node9
2022-05-30 04:48:06.629+0000 [id:1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: No SessionScavenger set, using defaults
2022-05-30 04:48:06.629+0000 [id:1] INFO o.e.j.s.session.HouseKeeper#startScavenging: nodes Scavenging every 60000ms
2022-05-30 04:48:07.160+0000 [id:1] INFO hudson.webAppMain#contextInitialized: Jenkins home directory: C:\Users\abish\jenkins
jenkins found at $user.home/jenkins
2022-05-30 04:48:07.160+0000 [id:1] INFO o.e.j.s.handler.ContextHandler#doStart: Started w@Easa@0[Jenkins v2.322.1], file:///C:/Users/abish/jenkins/war,[AVAILABLE][C:\Users\abish\jenkins\war]
2022-05-30 04:48:07.454+0000 [id:1] INFO o.e.j.s.AbstractConnector#doStart: Started ServerConnector@1202859c[HTTP/1.1](http://1.1)(@0.0.0.0:8080)
2022-05-30 04:48:07.454+0000 [id:1] INFO org.eclipse.jetty.server.Server#doStart: Started #1@84ms
```



Welcome to Jenkins!

admin

Sign in

Keep me signed in



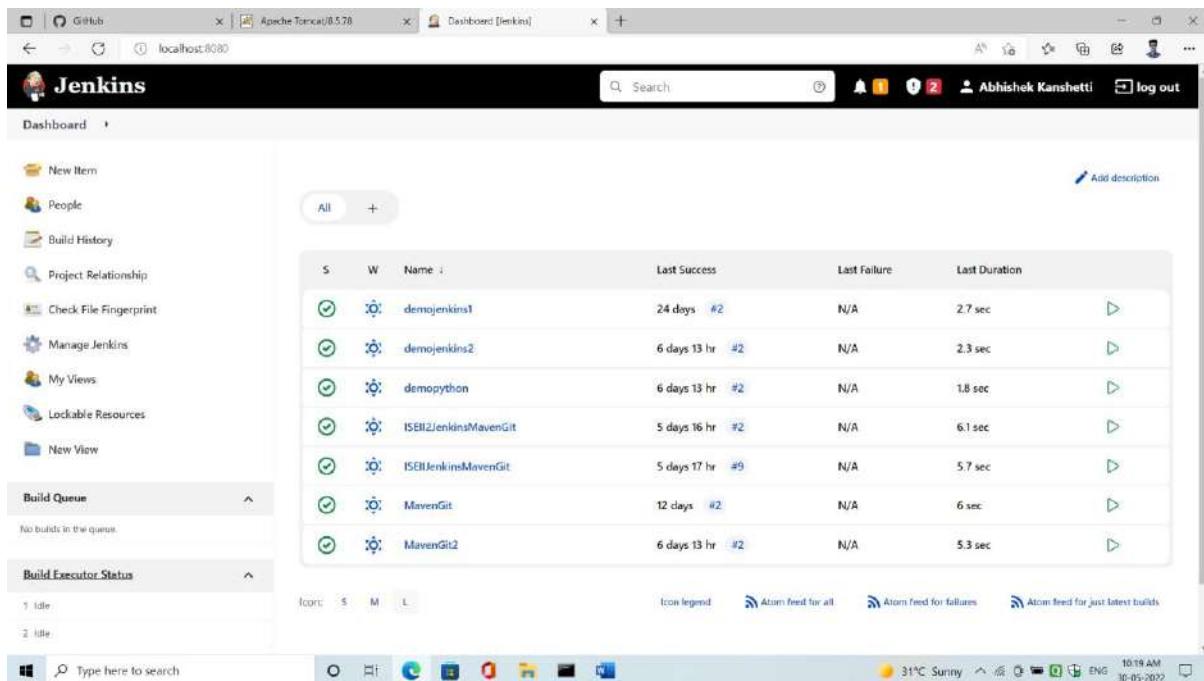
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

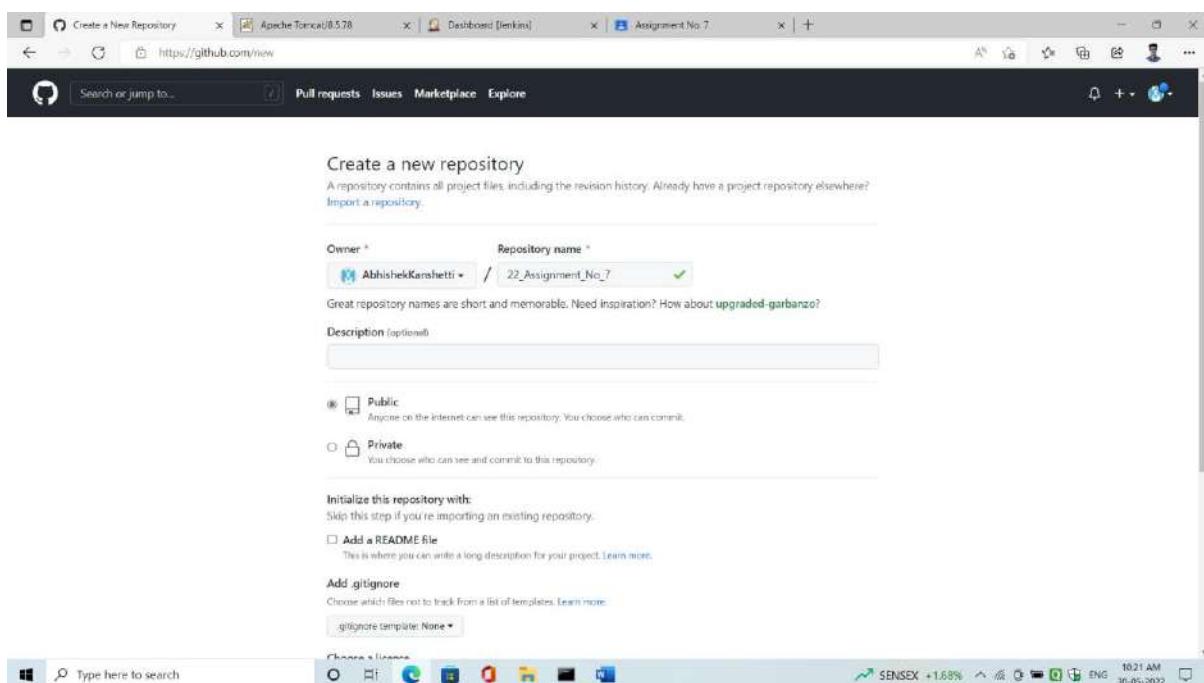
Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Signed In to Jenkins: -



The screenshot shows the Jenkins dashboard with several build jobs listed:

S	W	Name	Last Success	Last Failure	Last Duration
✓	⌚	demojenkins1	24 days 22	N/A	2.7 sec
✓	⌚	demojenkins2	6 days 13 hr 22	N/A	2.3 sec
✓	⌚	demopython	6 days 13 hr 22	N/A	1.8 sec
✓	⌚	ISELIIJenkinsMavenGit	5 days 16 hr 22	N/A	6.1 sec
✓	⌚	ISELIIJenkinsMavenGit	5 days 17 hr 22	N/A	5.7 sec
✓	⌚	MavenGit	12 days 22	N/A	6 sec
✓	⌚	MavenGit2	6 days 13 hr 22	N/A	5.3 sec

Creating a New Repository: -



The screenshot shows the GitHub 'Create a new repository' page. The repository details are as follows:

- Owner: AbhishekKanshetti
- Repository name: 22_Assignment_No_7
- Type: Public
- Description: (optional)
- Initialize this repository with: (checkboxes for README file and gitignore template)
- Add .gitignore: (dropdown menu for choosing a template)

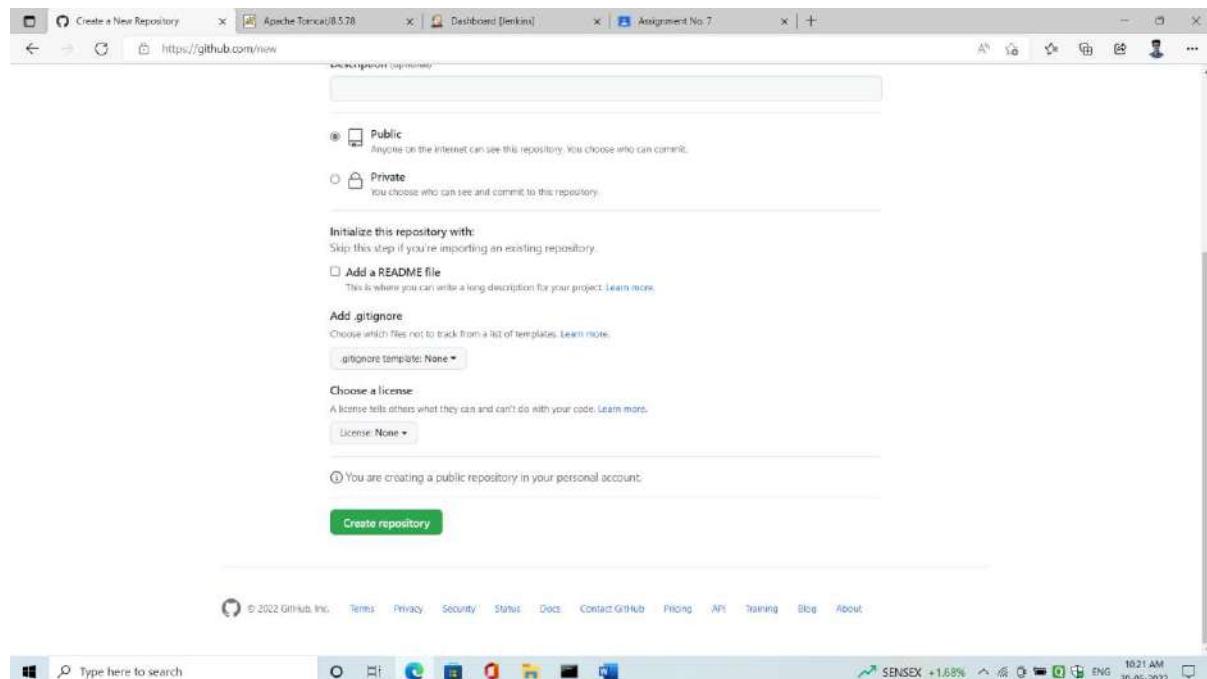
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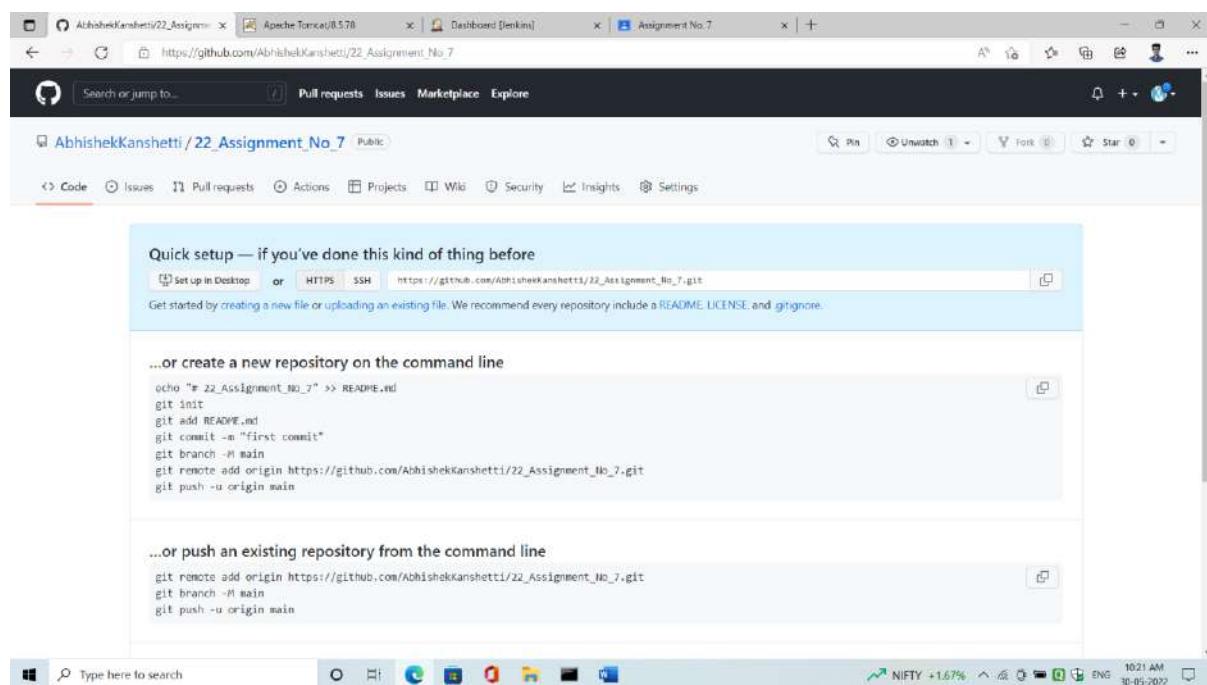
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins "Deploy to Container" Plugin and "Build Pipeline" Plugin



Created a New Repository: -



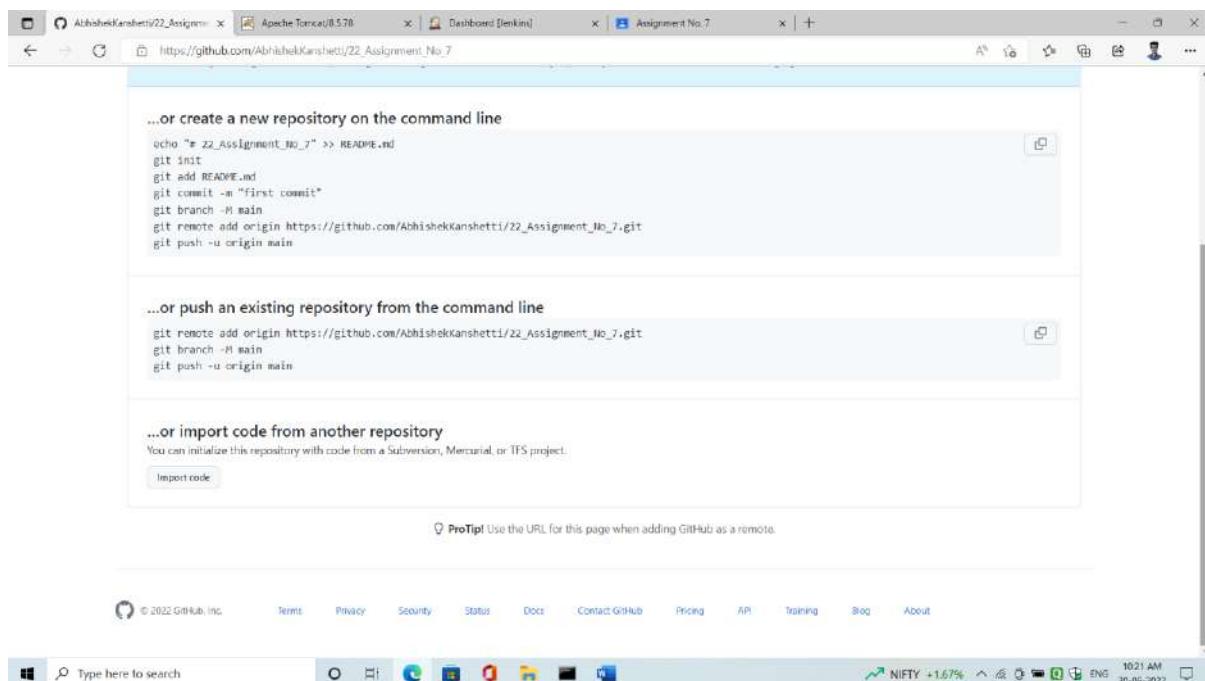
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Name: Abhishek Basavraj Kanshetti

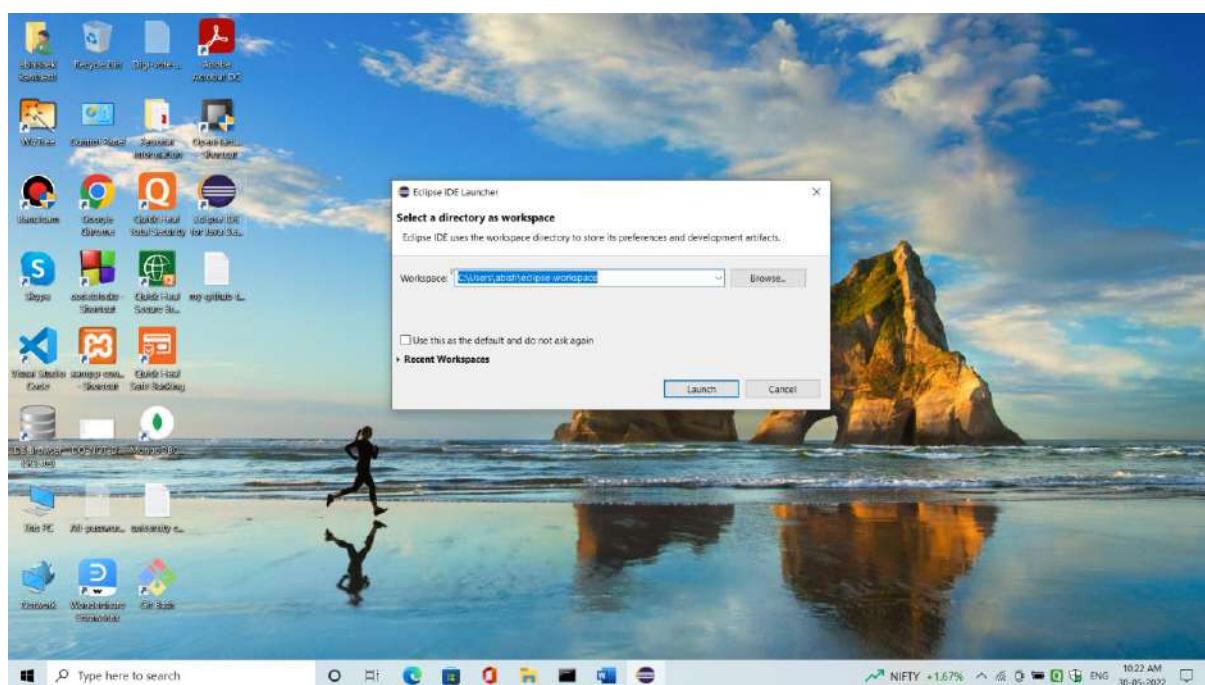
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin



Started a Eclipse IDE: -



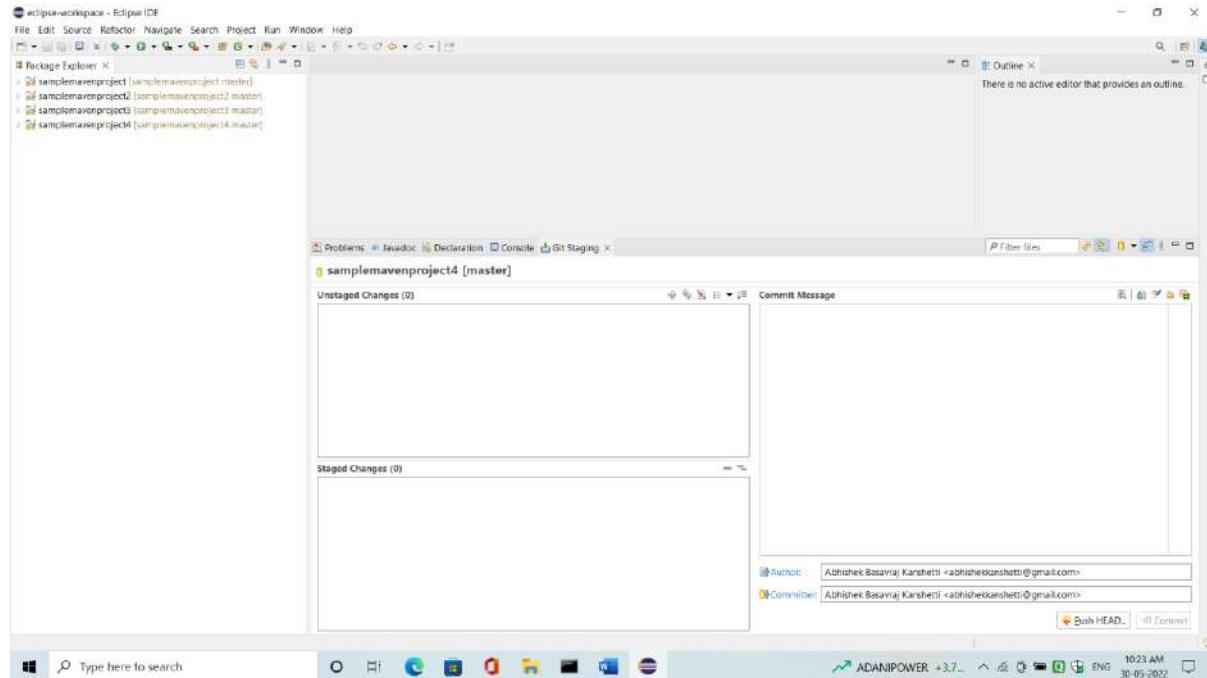
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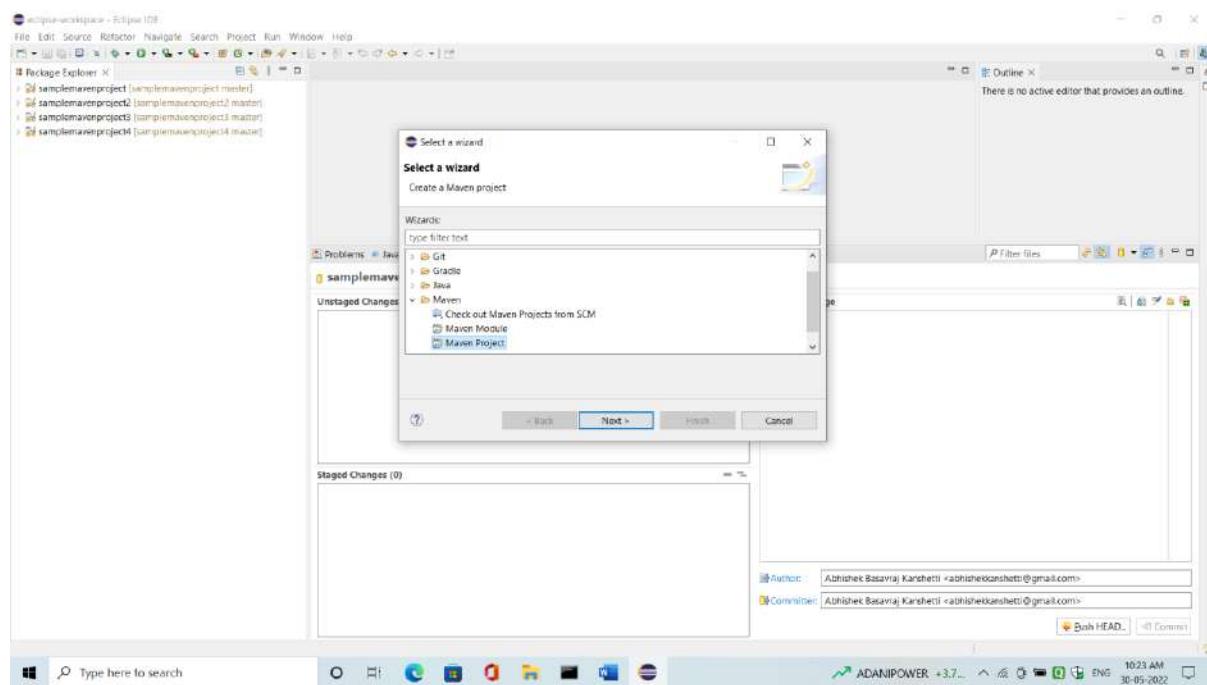
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin



Creating a New Maven Project: -



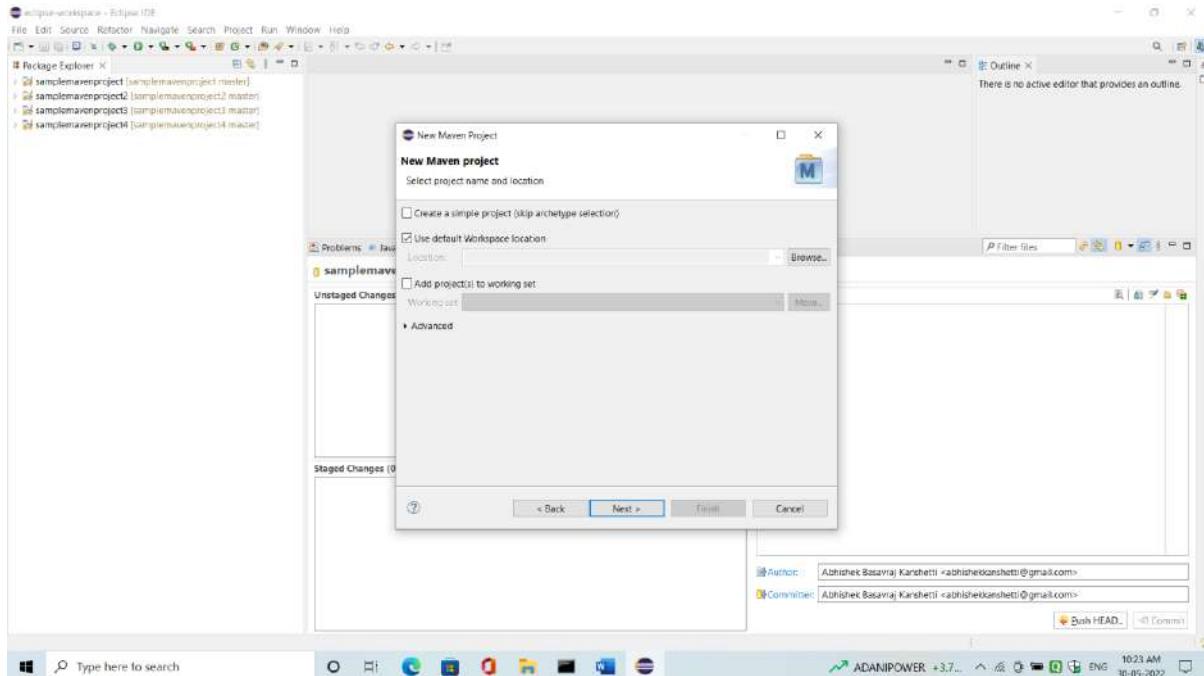
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DEVOPS**

Name: Abhishek Basavraj Kanshetti

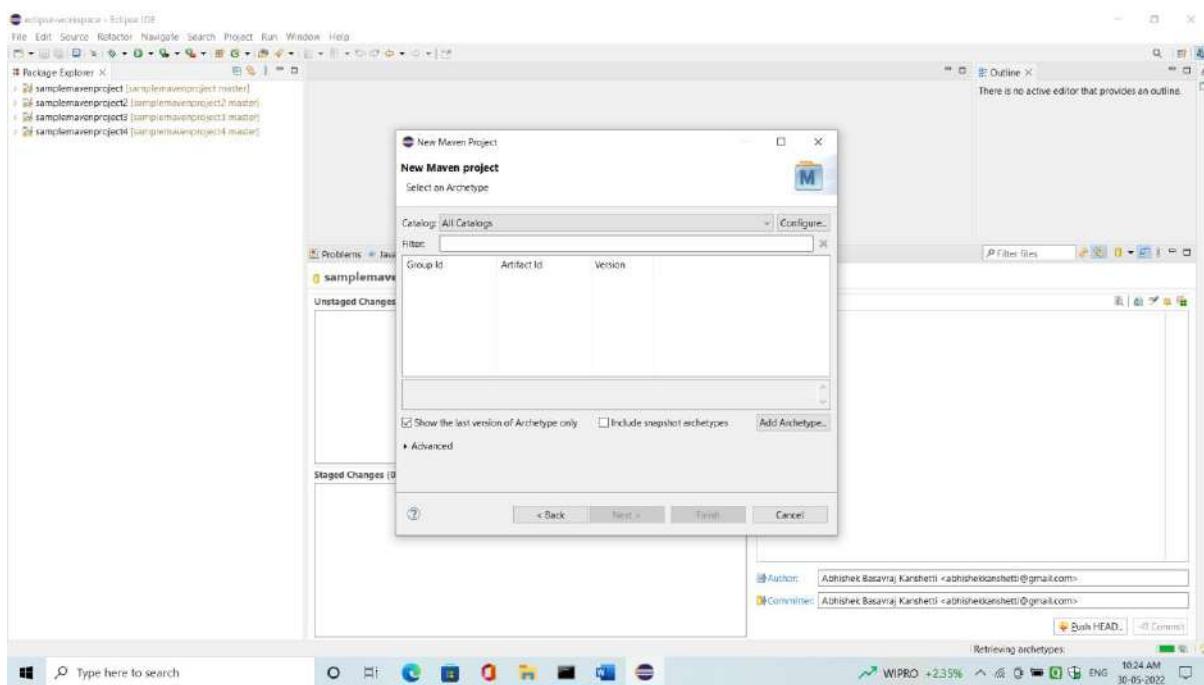
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin



Selecting a Group Id as follow: -



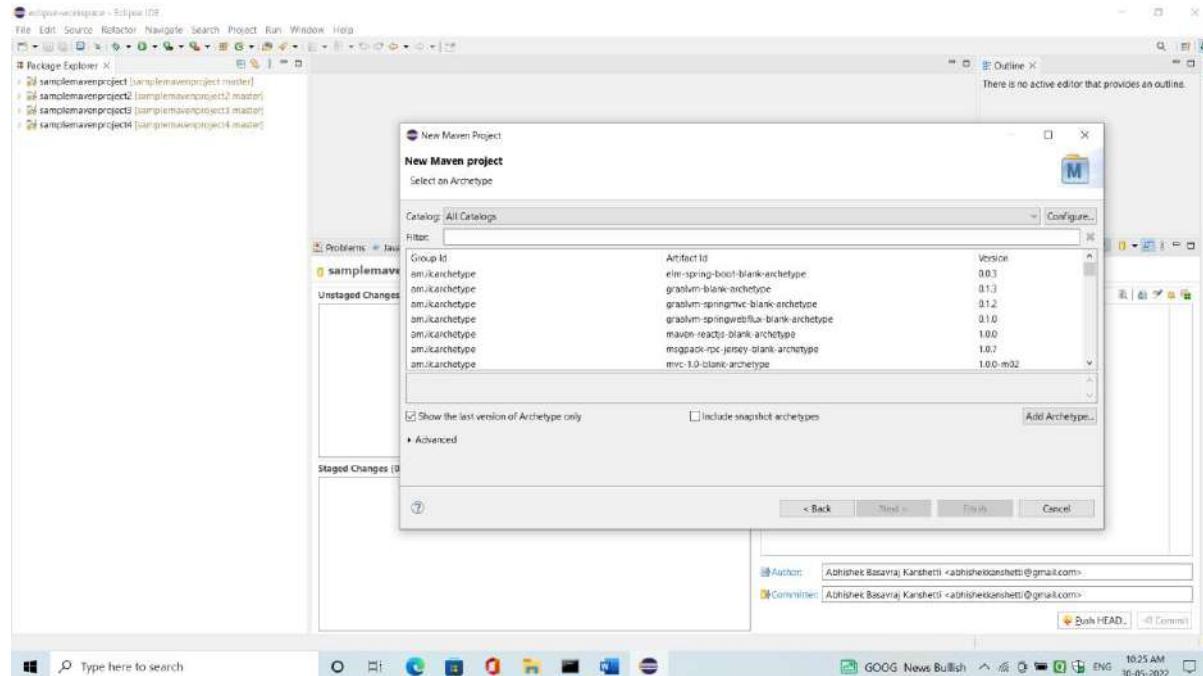
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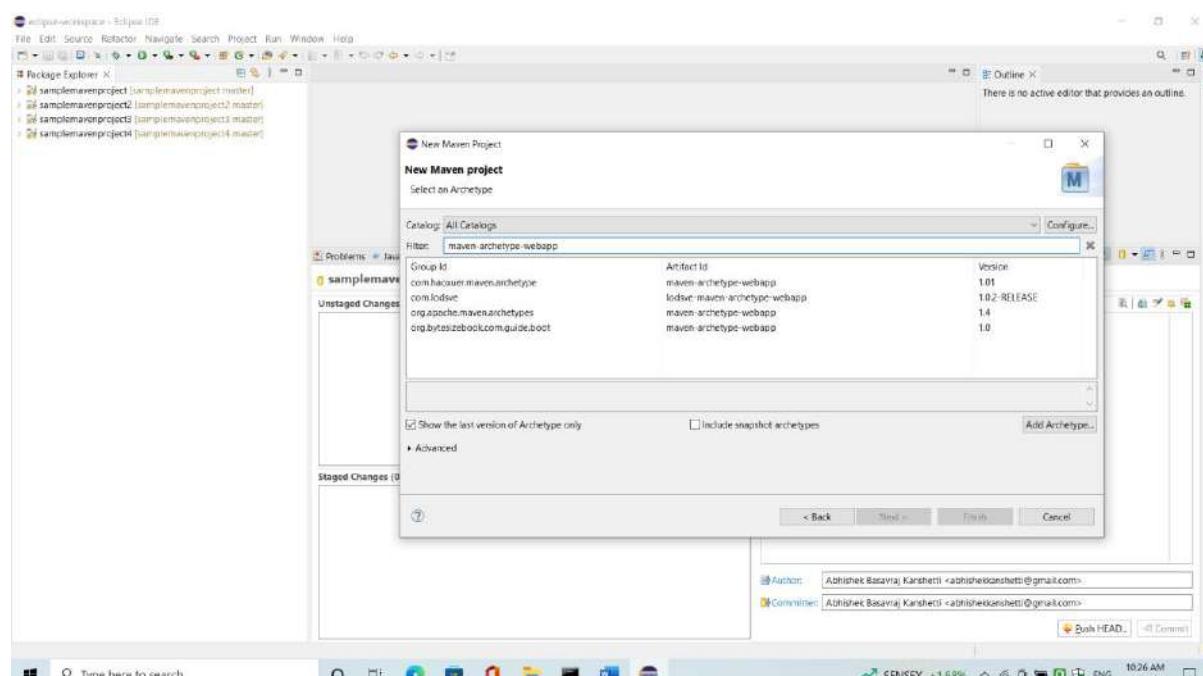
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin



Searching for a “maven-archetype-webapp” in Group Id as follow”:-



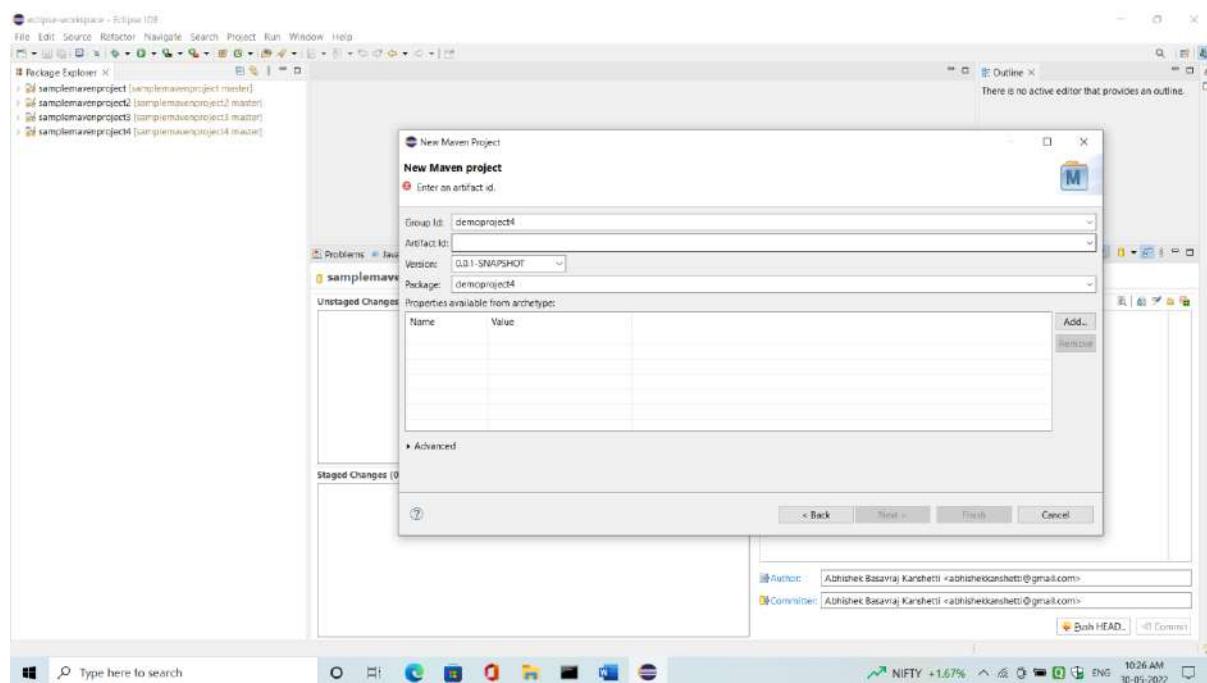
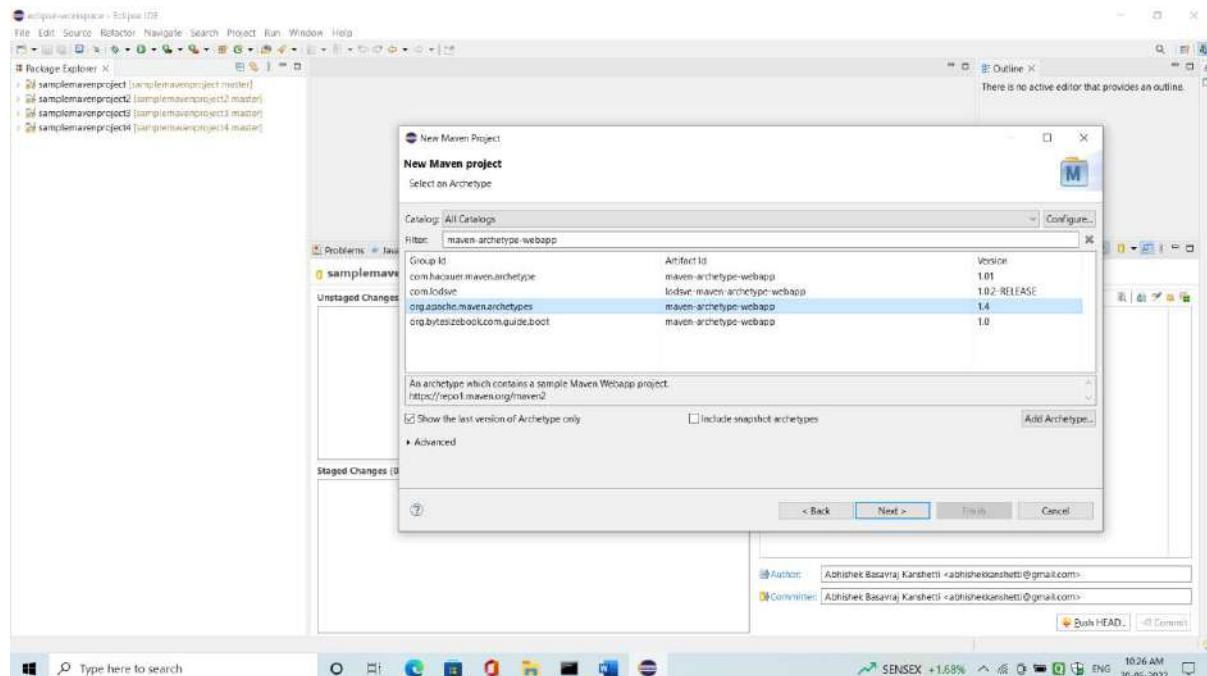
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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Then Click on Next: -



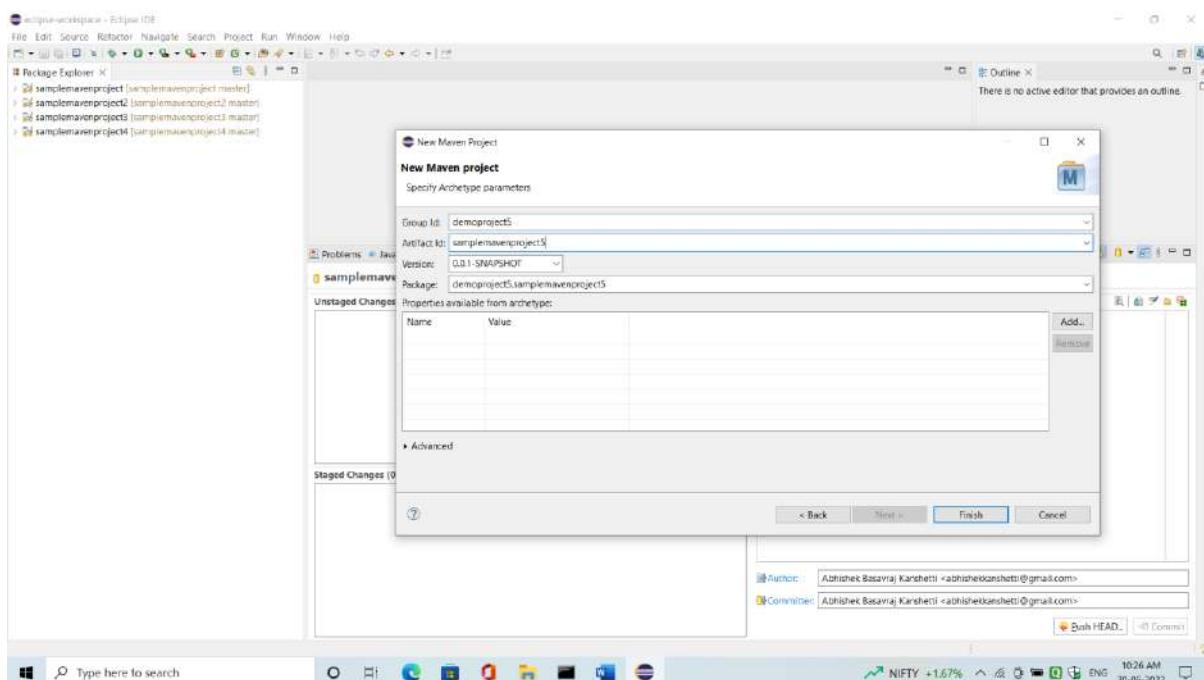
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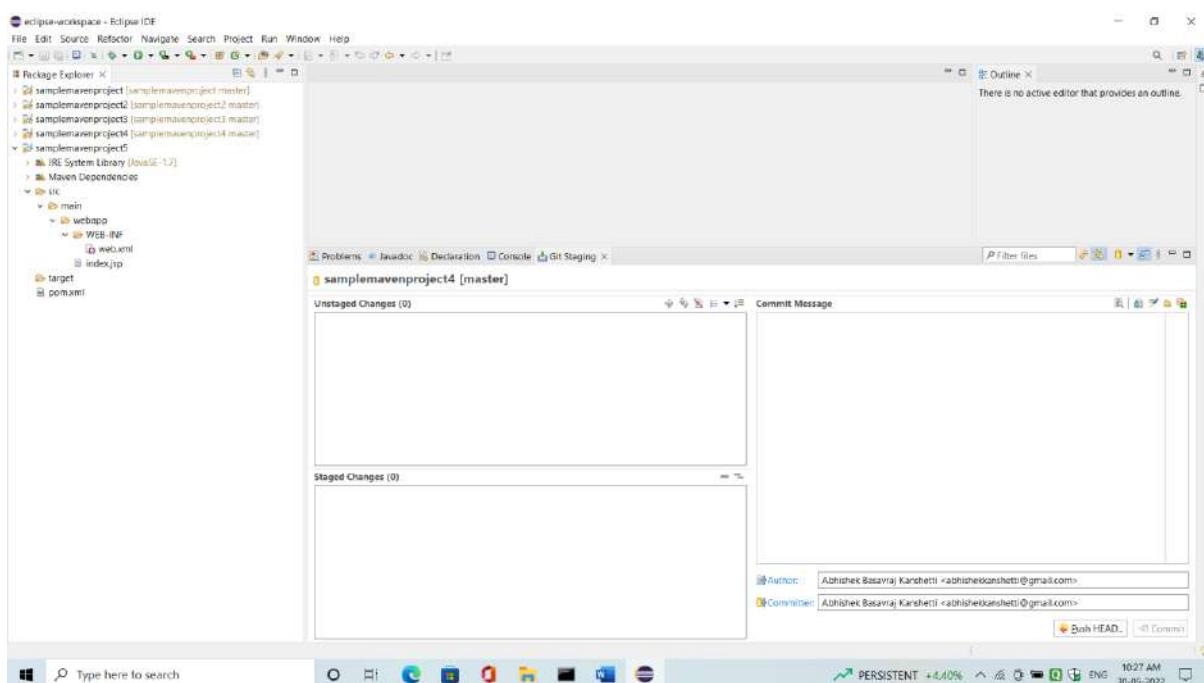
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Entered Group Id and Artifact Id as follow and click on Finish: -



Created Maven Project as below: -



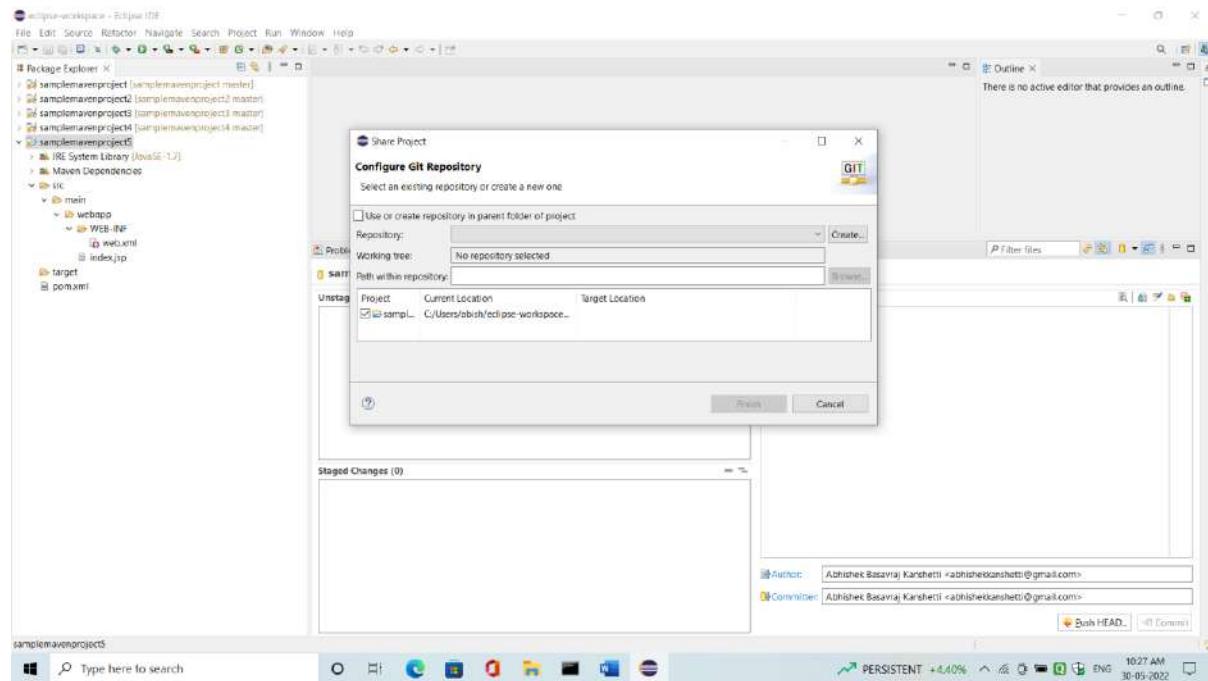
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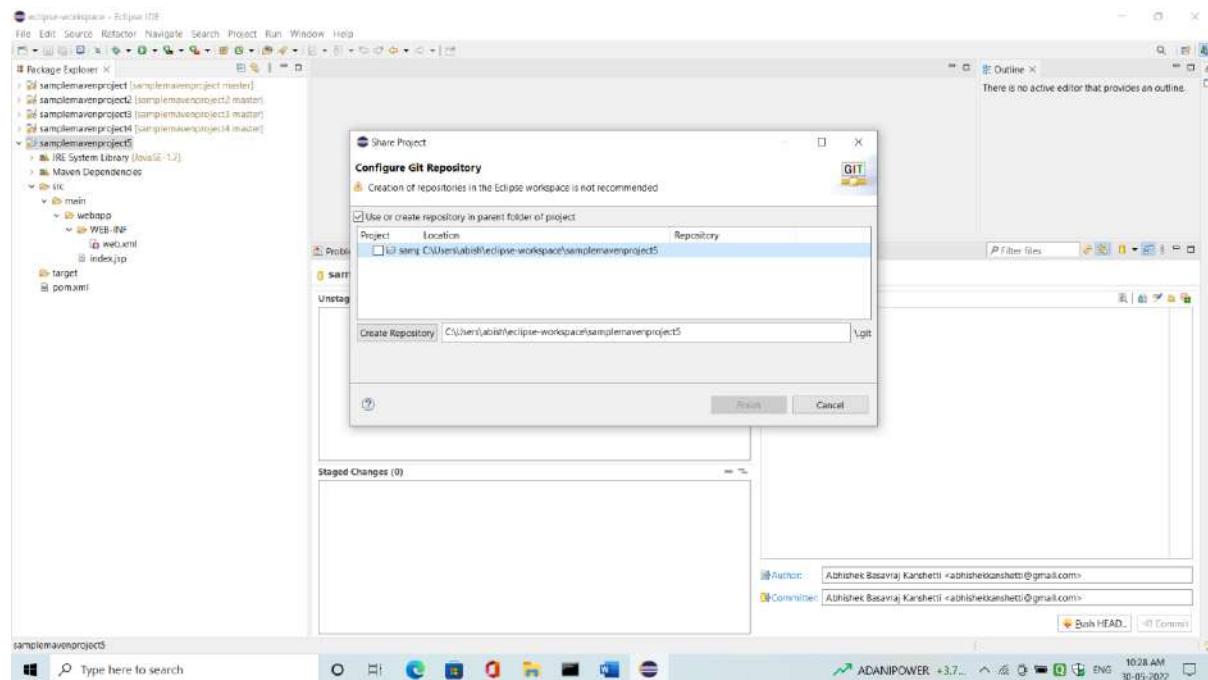
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Select the checkbox: -



Then click on the Create Repository: -



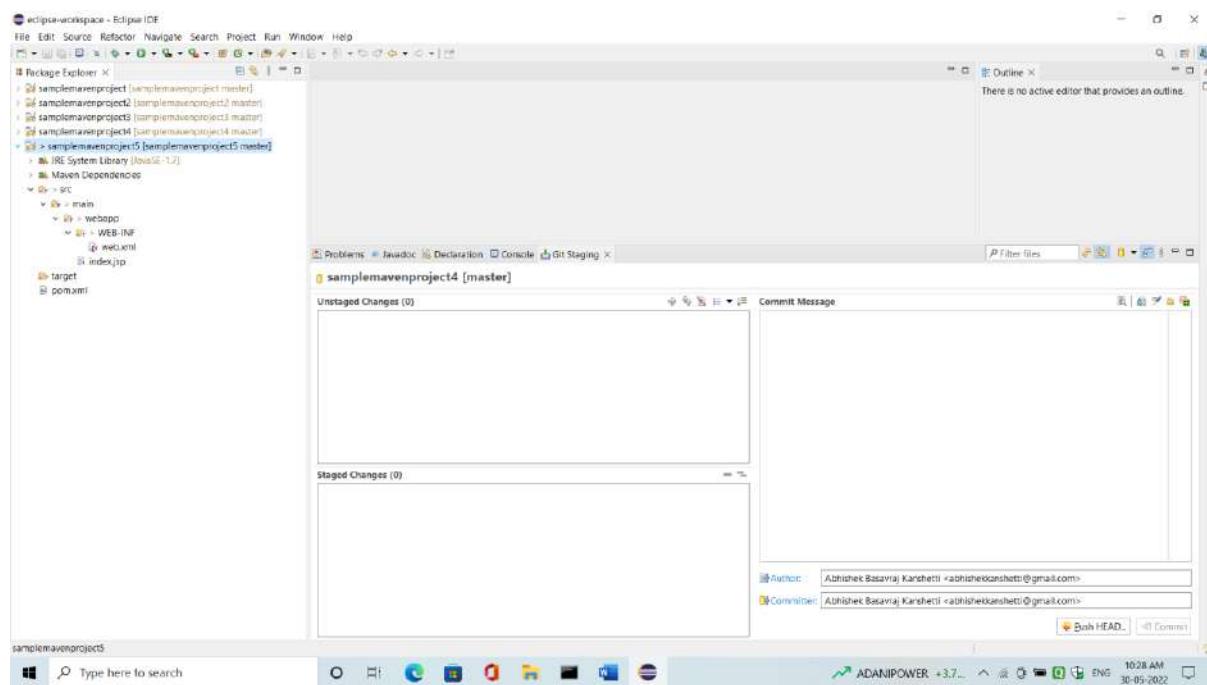
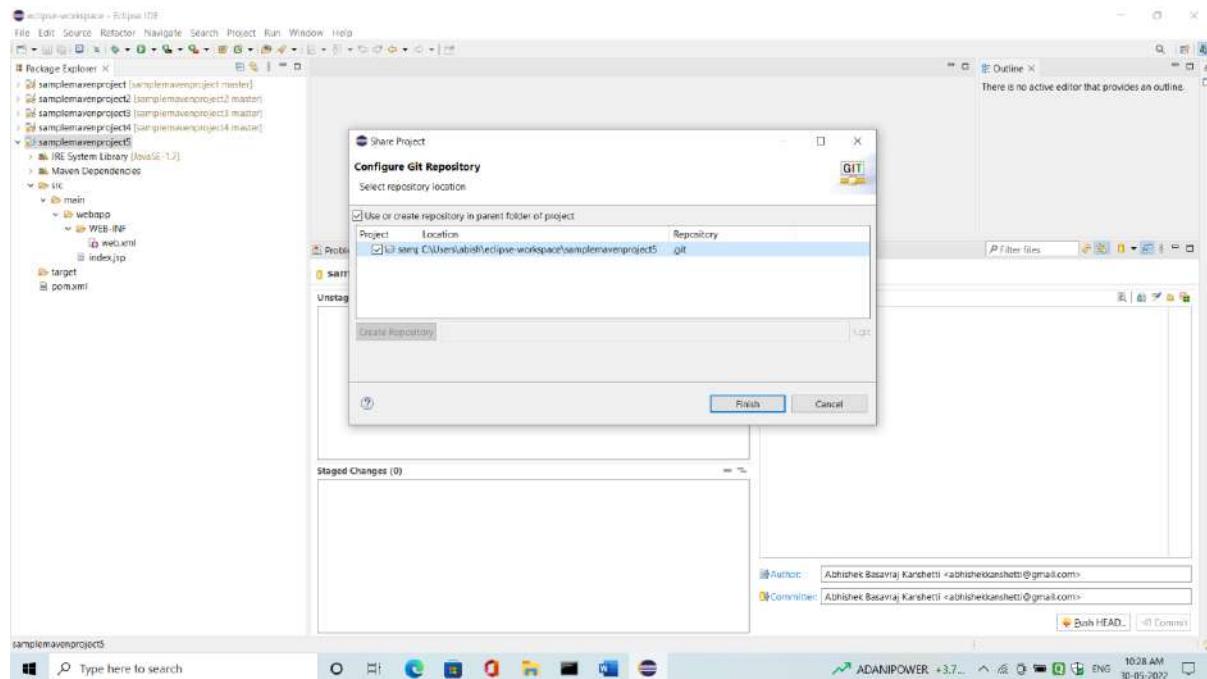
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Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Then Click on Finish: -



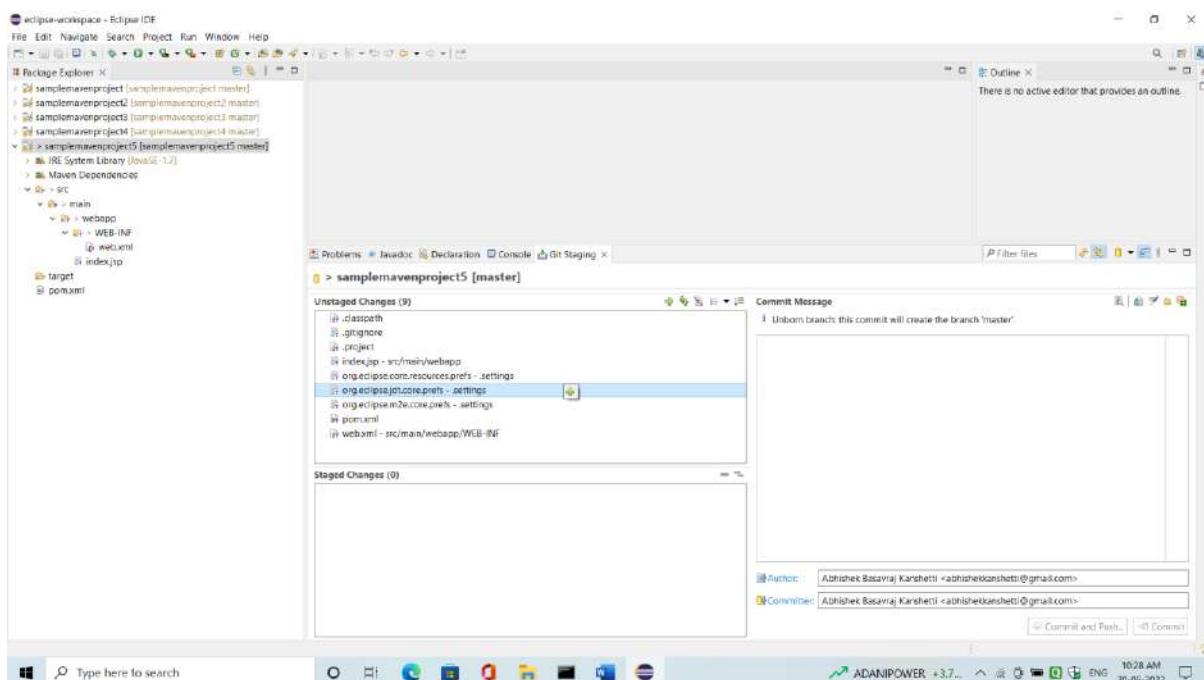
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Name: Abhishek Basavraj Kanshetti

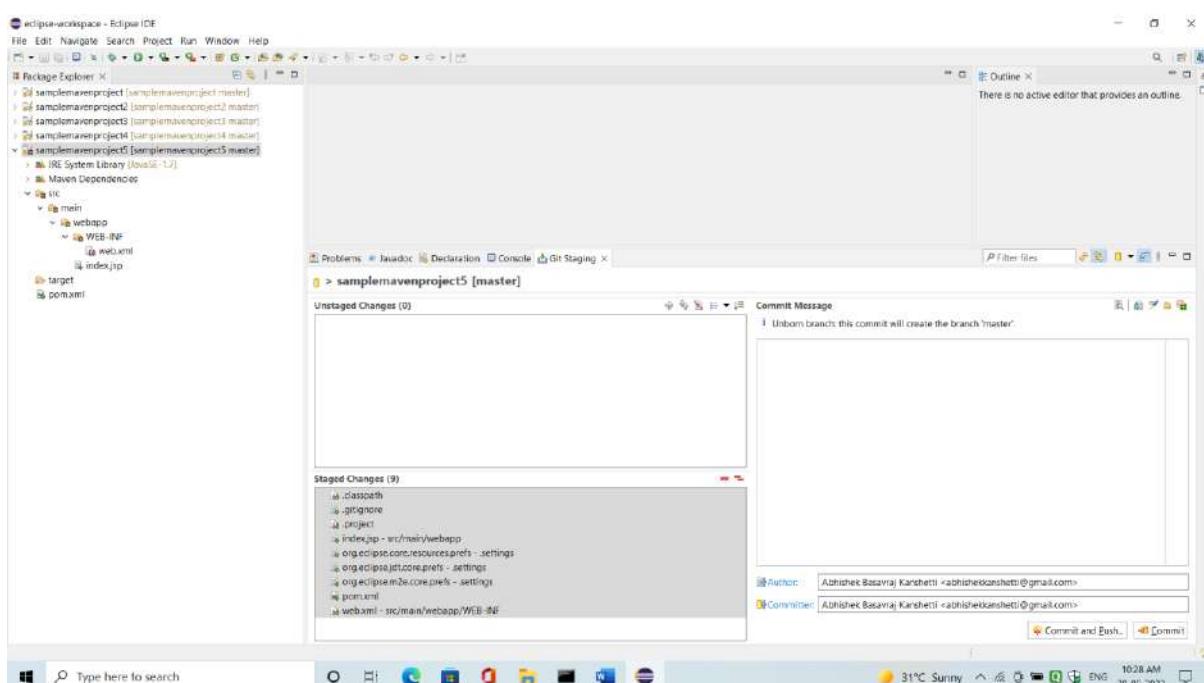
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
All files will be in Unstaged Area: -



Then we Dragged all files into Staged Area: -



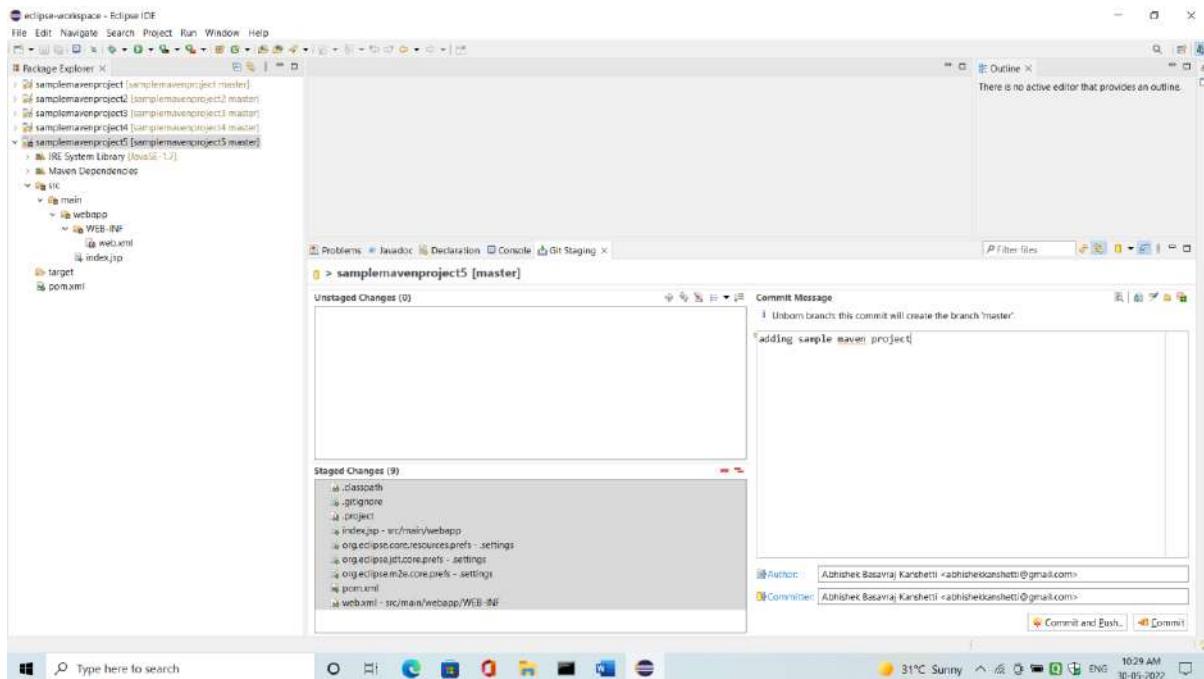
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2021-22 SEMESTER-II
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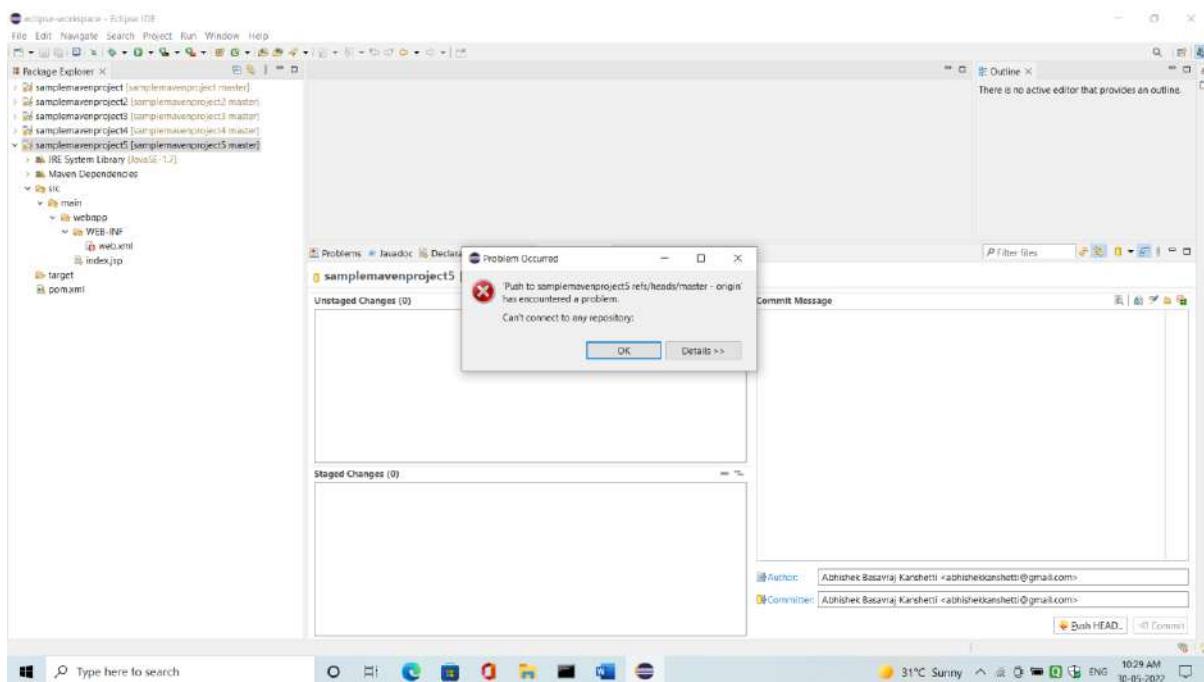
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Entered the Commit Message as follow: -



After clicking on Commit and Push: -



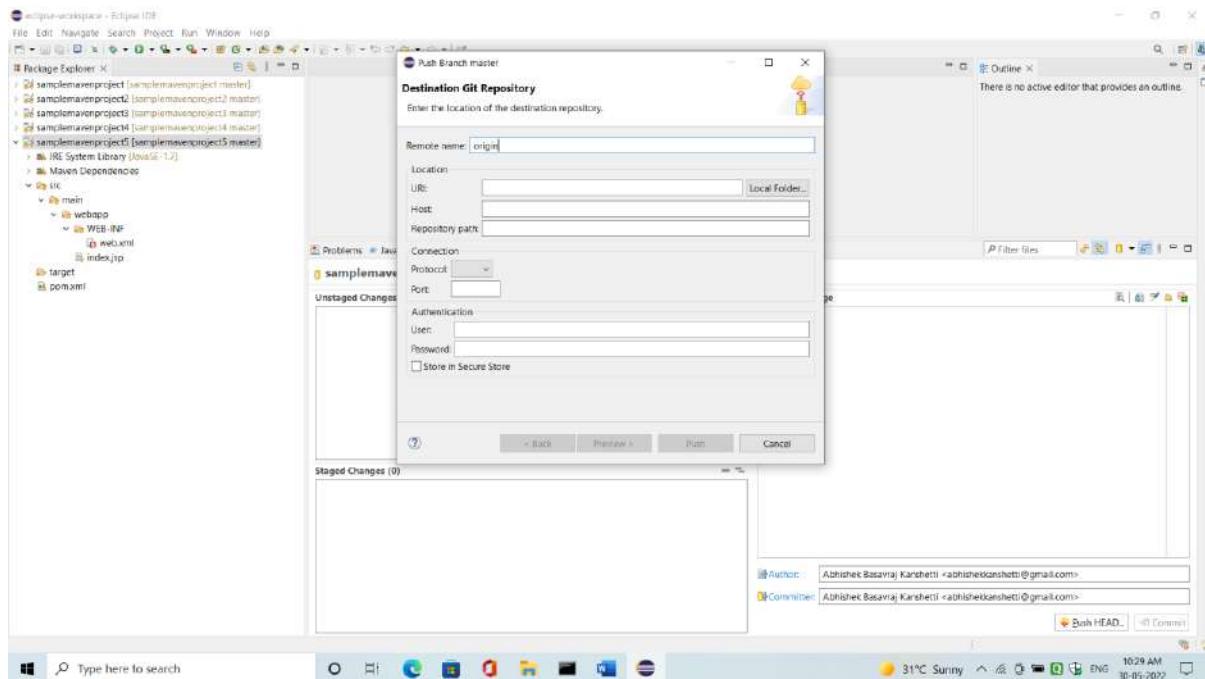
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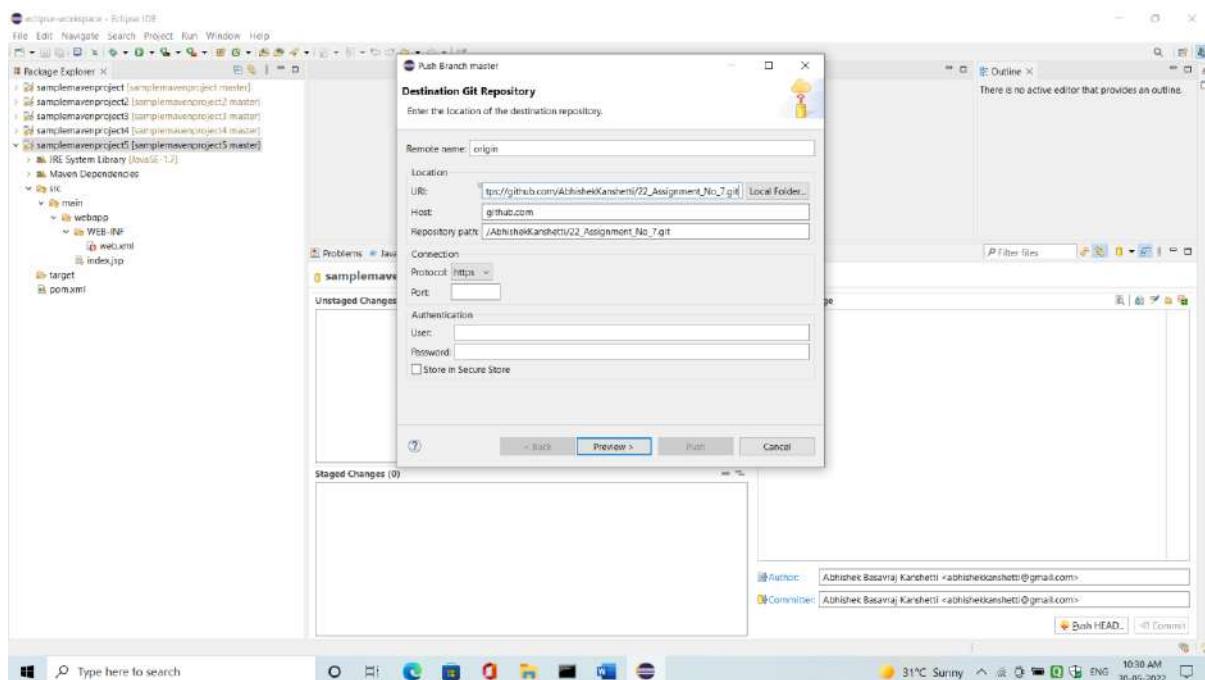
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Then click on ok and click on Push Head: -



Entered Git Repository URL as follow: -



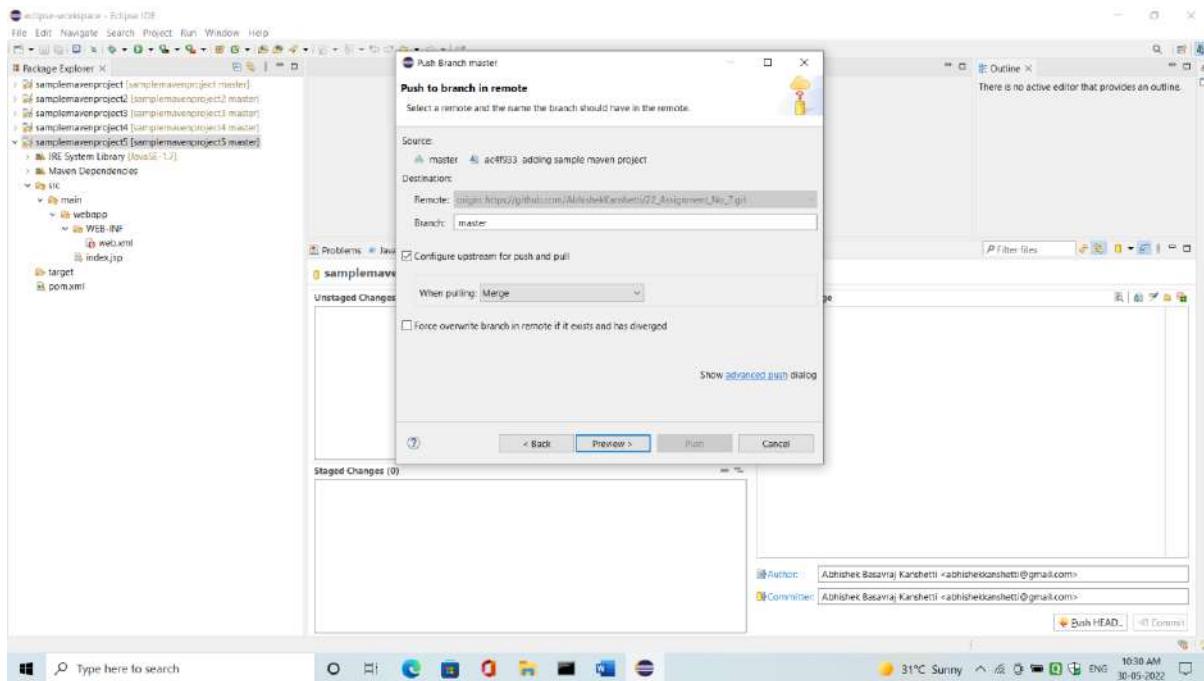
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Name: Abhishek Basavraj Kanshetti

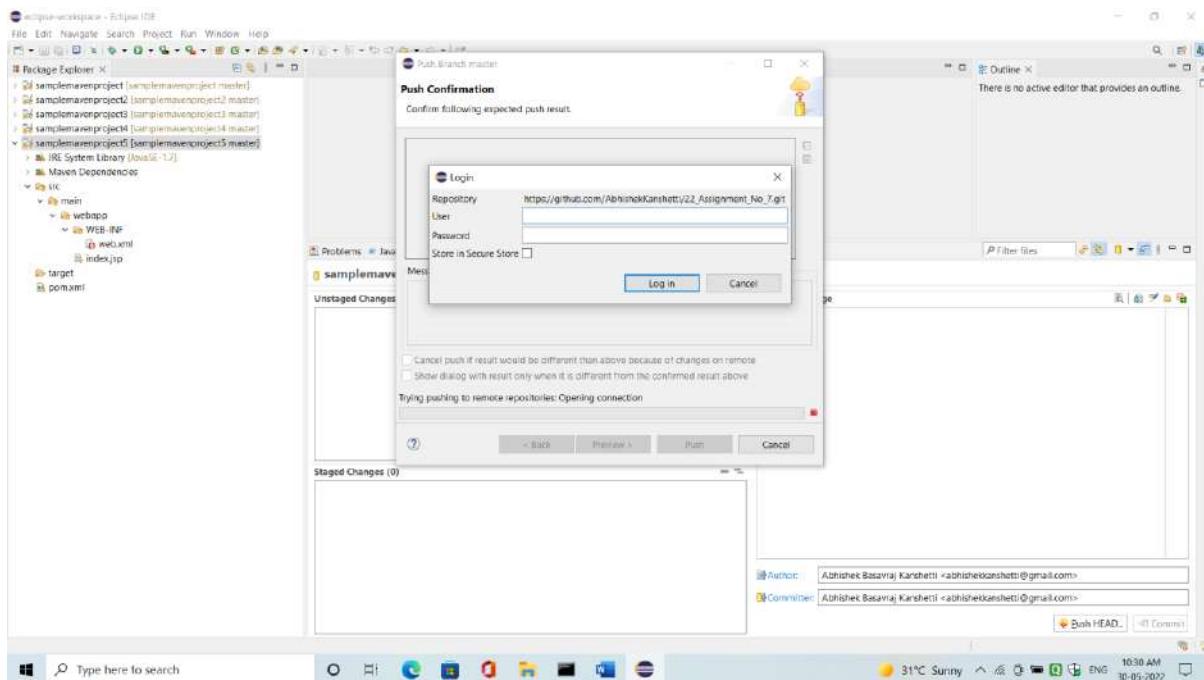
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Then Click on Preview: -



We need to enter Username and Password as below: -



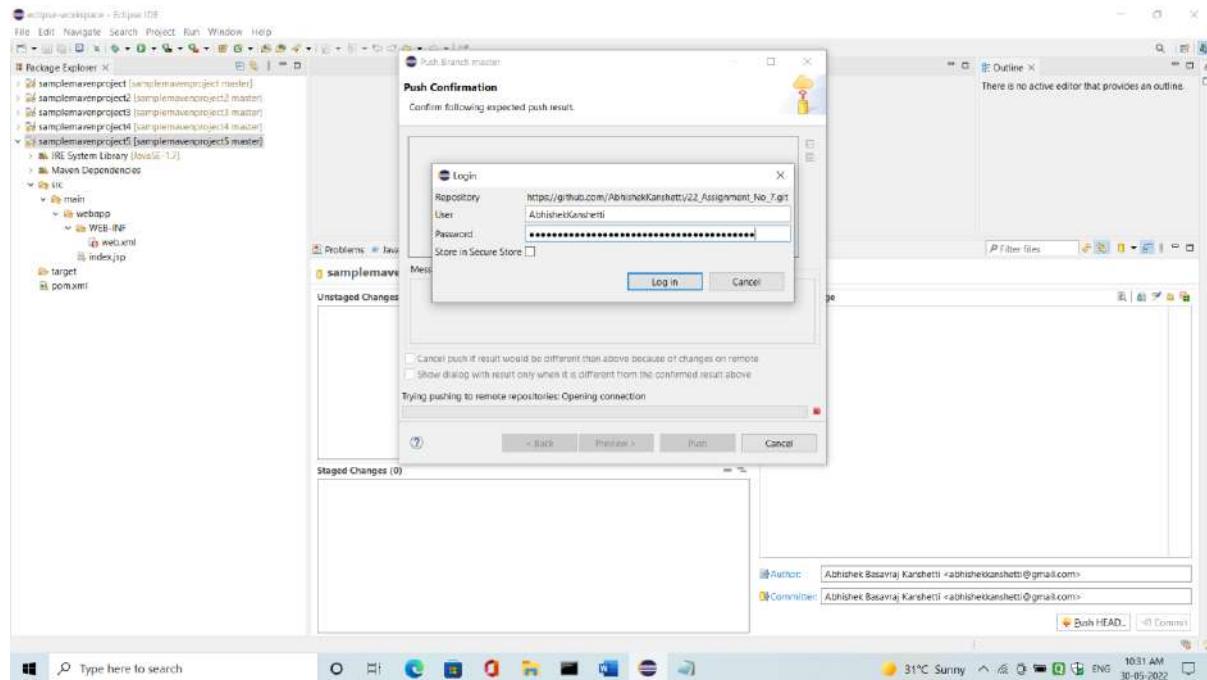
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2021-22 SEMESTER-II
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Name: Abhishek Basavraj Kanshetti

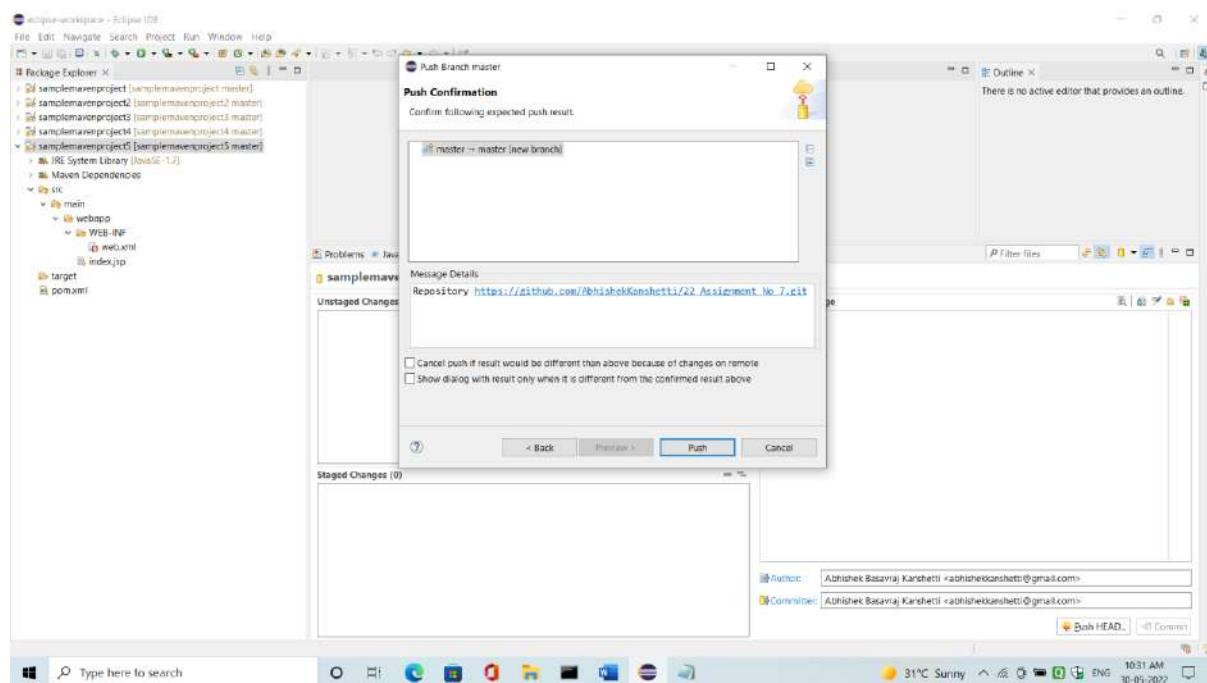
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin



Then We need to click on Push: -



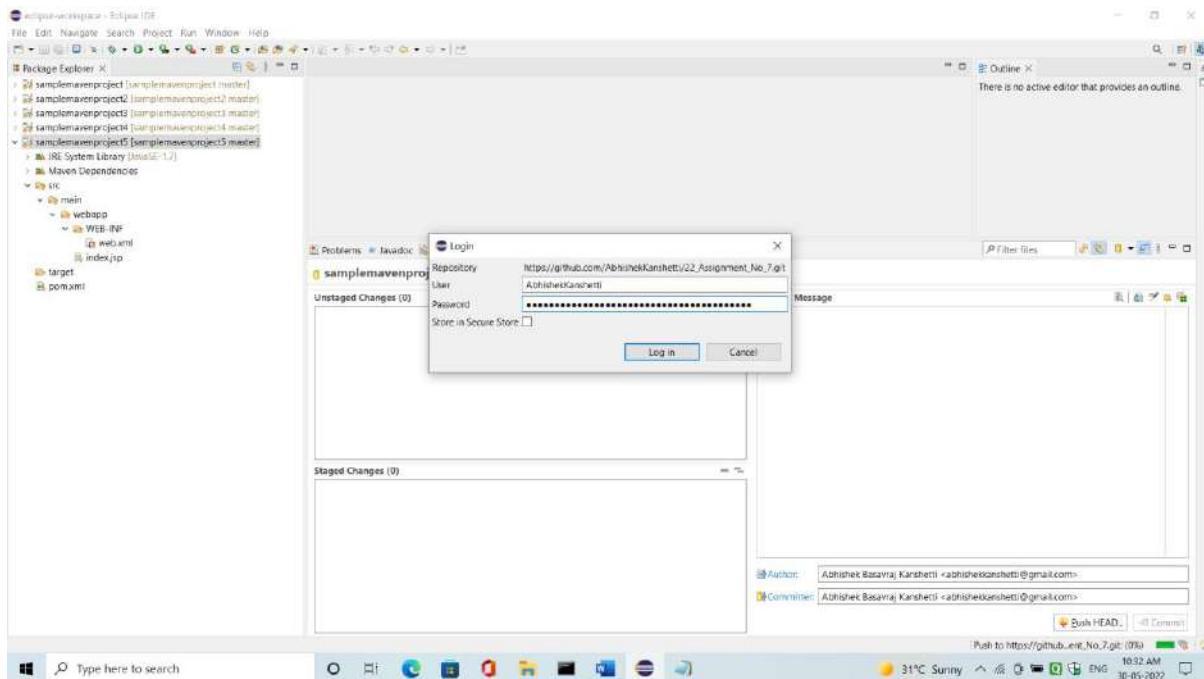
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

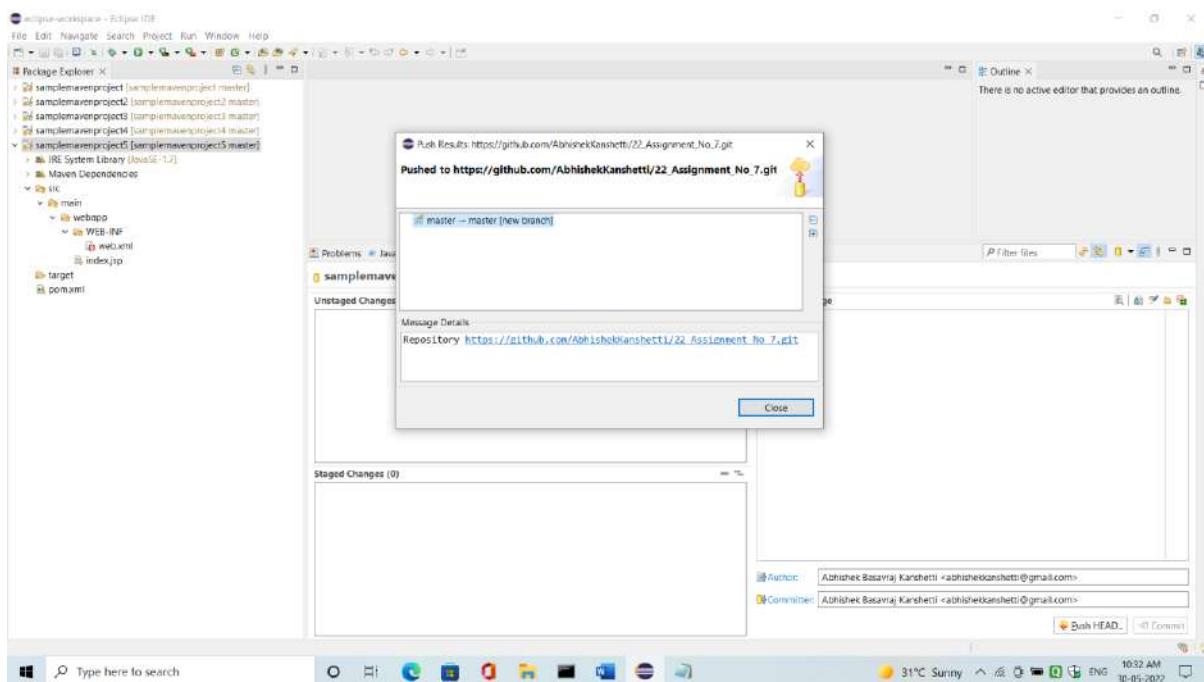
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
We need to enter UserName and Password as below: -



Pushed to Git Repository: -



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2021-22 SEMESTER-II
DEVOPS**

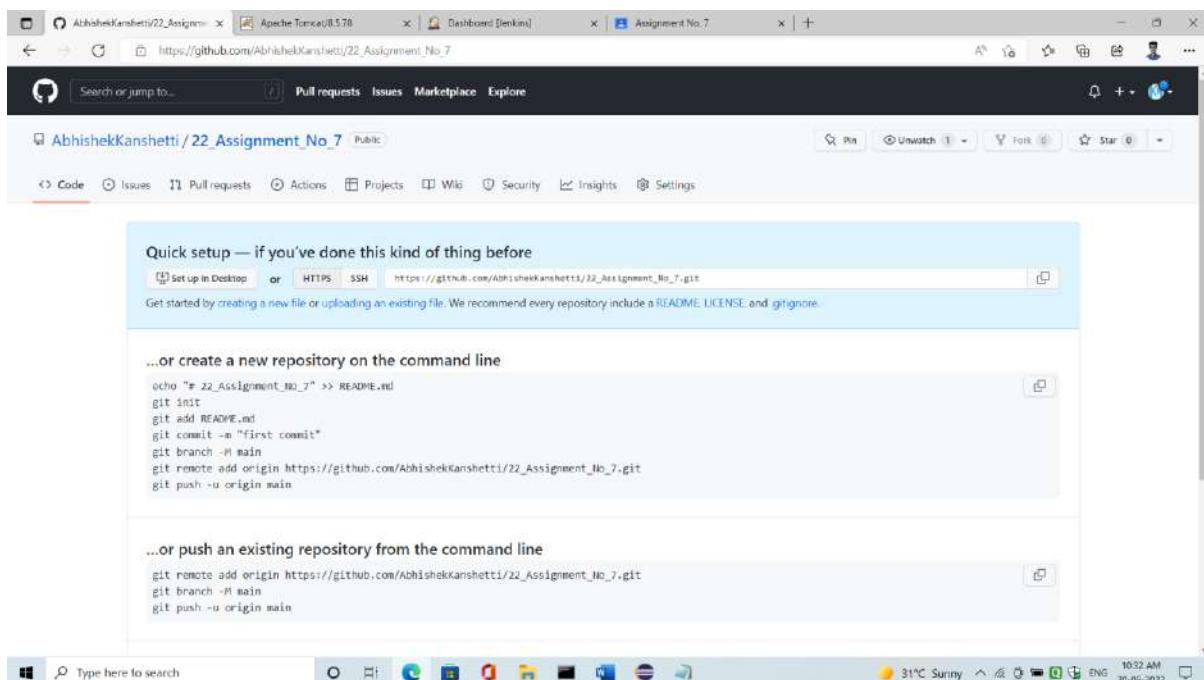
Name: Abhishek Basavraj Kanshetti

Roll No: 22

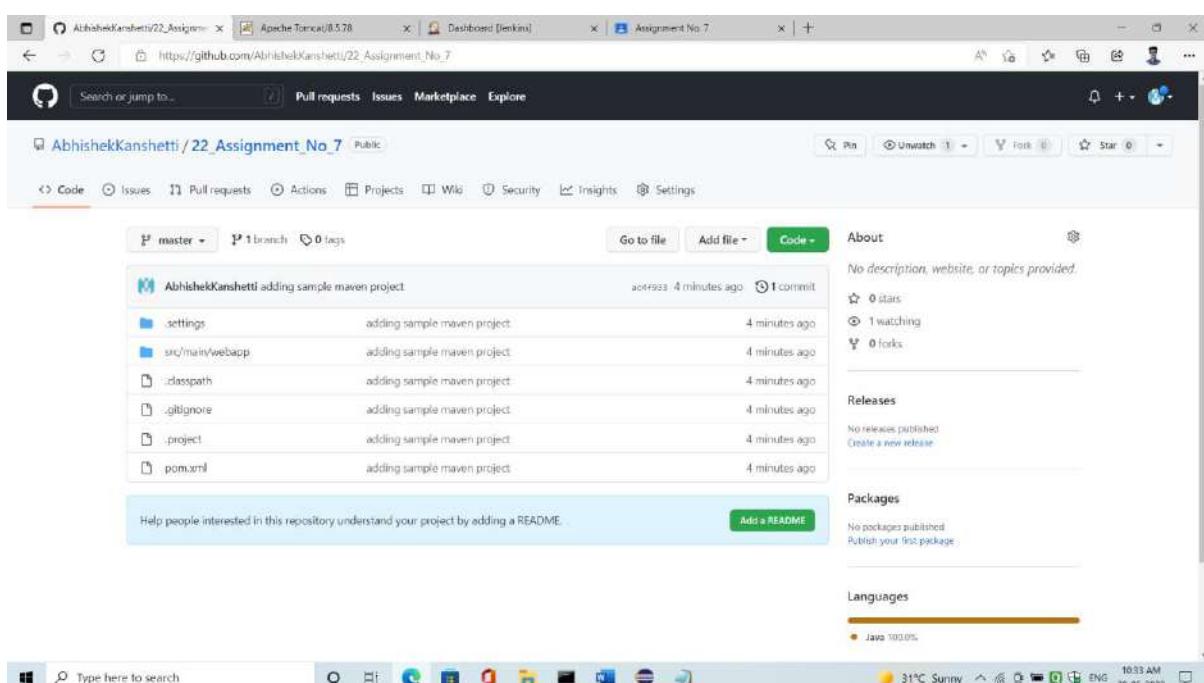
ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin

Before Refreshing: -



After Refreshing we can see Maven Project is Uploaded on the Git Repository as follow: -



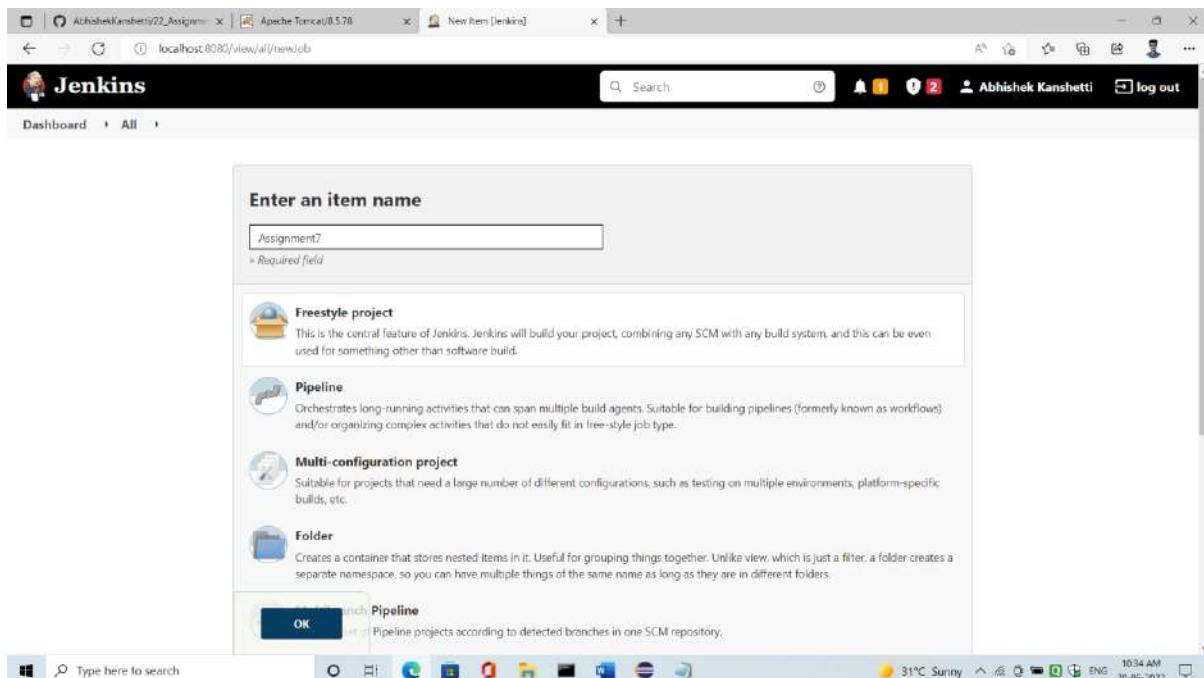
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Name: Abhishek Basavraj Kanshetti

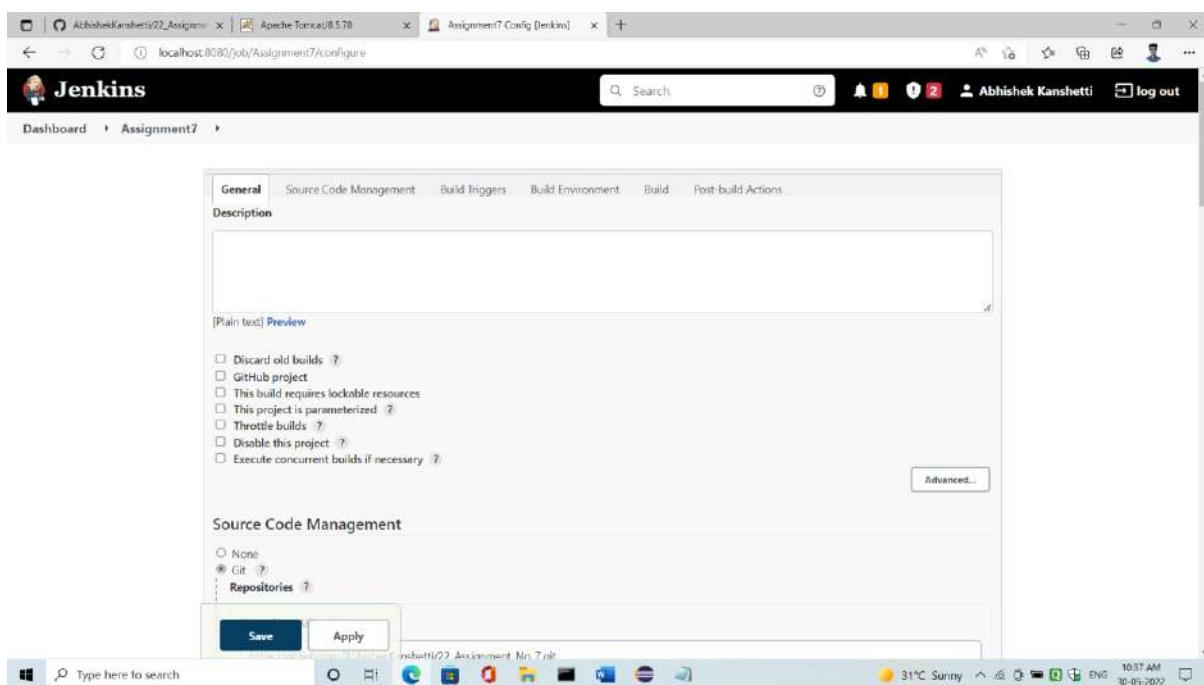
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
We need to create a Jenkins job as below: -



We need to Set the Settings as below: -



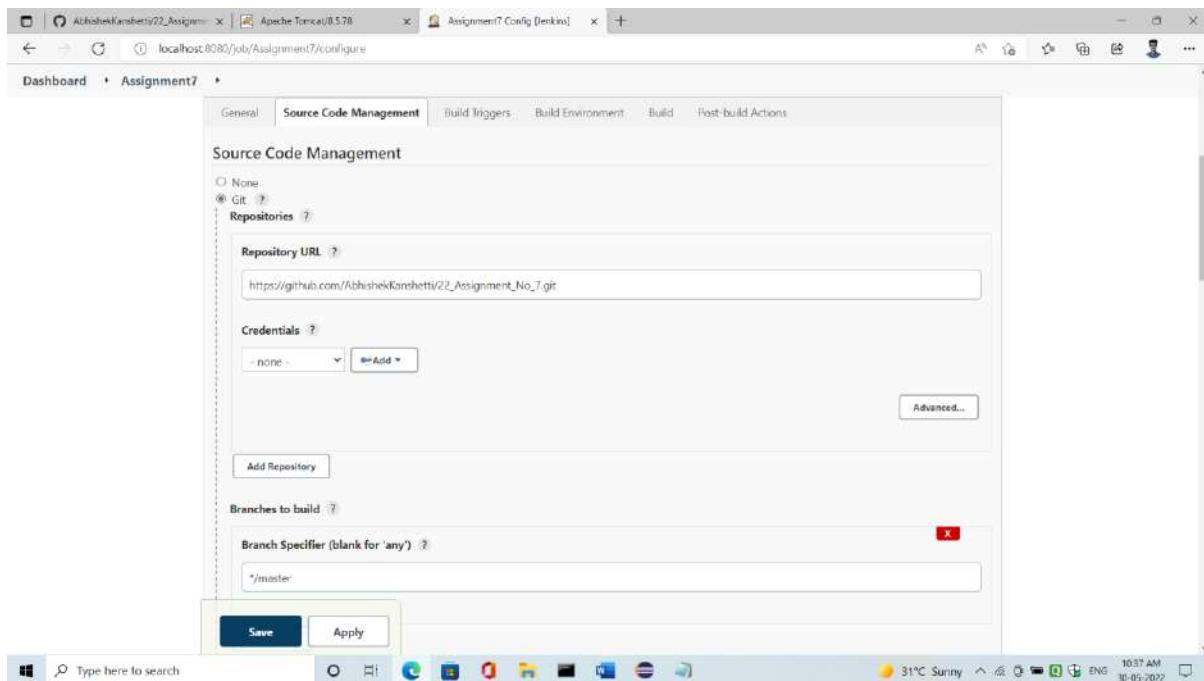
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2021-22 SEMESTER-II
DEVOPS**

Name: Abhishek Basavraj Kanshetti

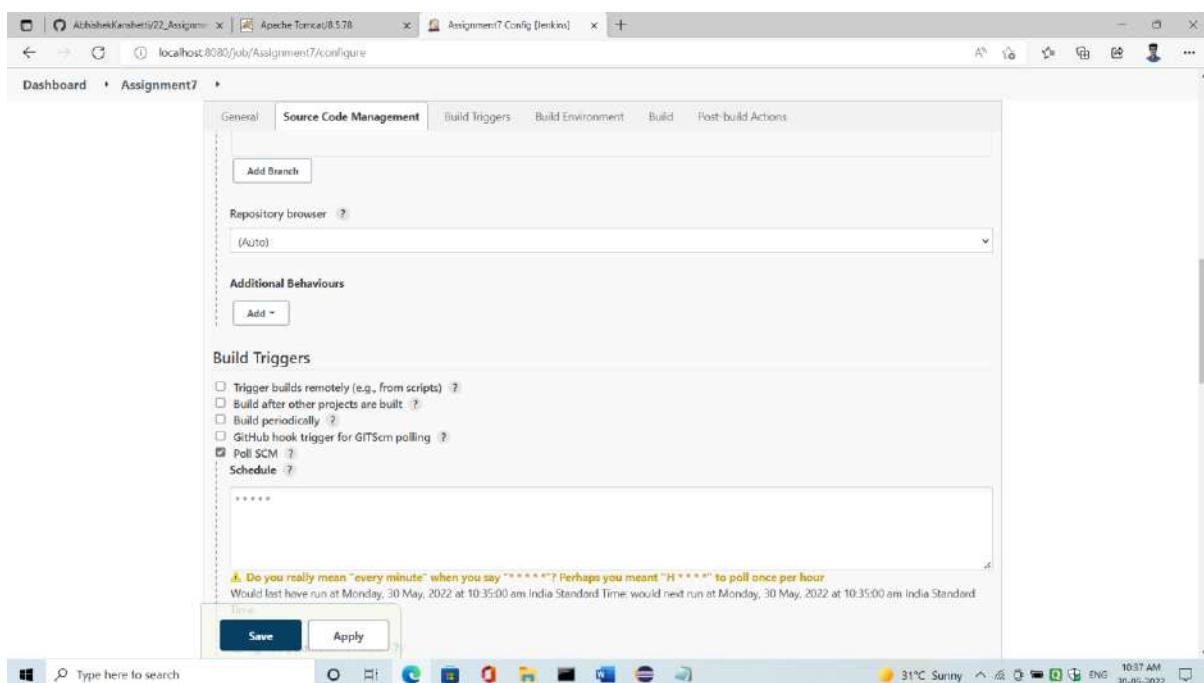
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Entered Git Repository as below: -



In Poll SCM, Enter “* * * * *” as below: -



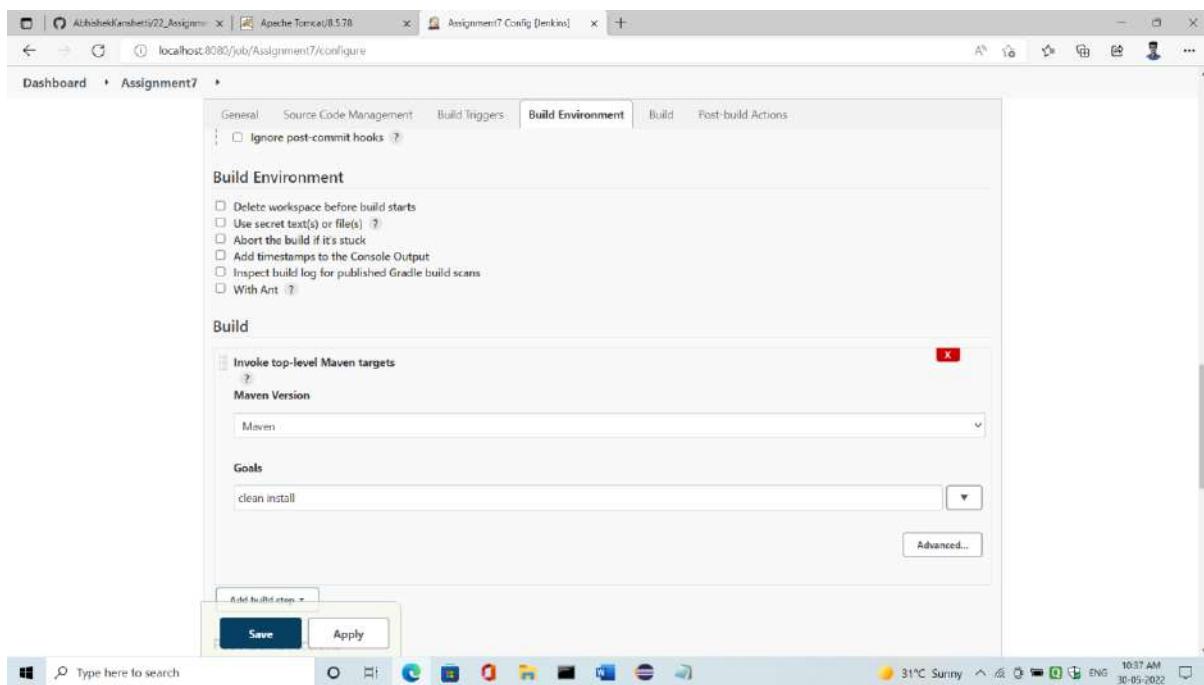
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

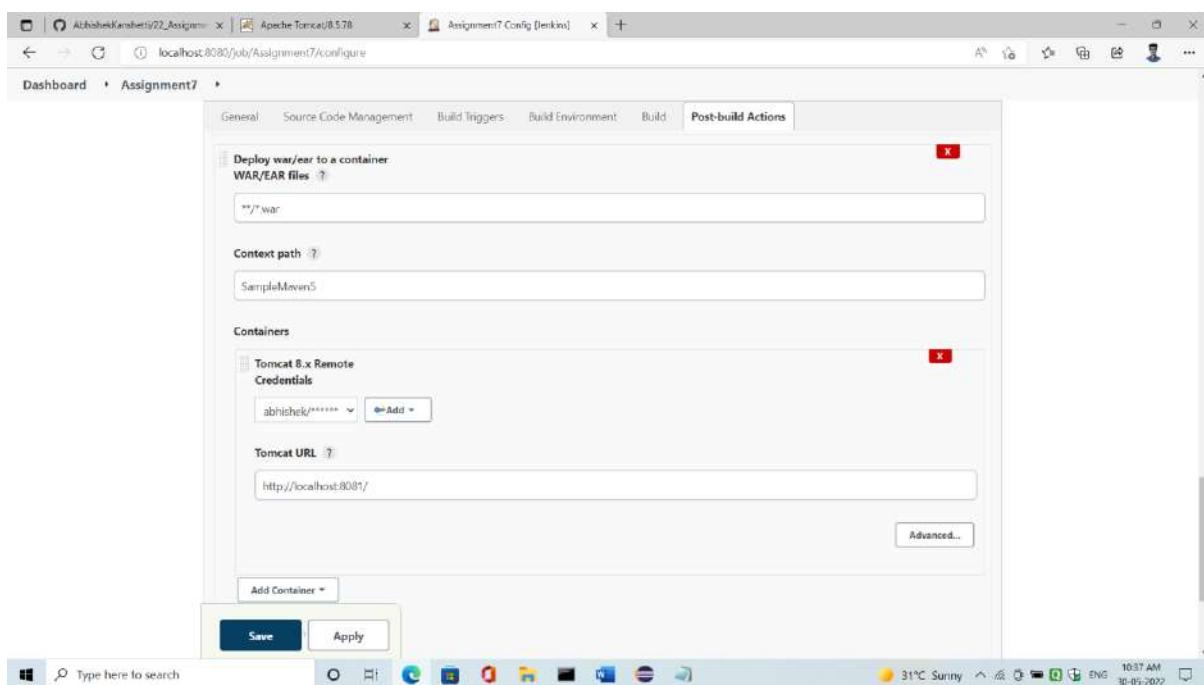
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins "Deploy to Container" Plugin and "Build Pipeline" Plugin
In Build, Select Option Invoke top-level target as below and enter settings as follow: -



In post build actions, enter settings as below: -



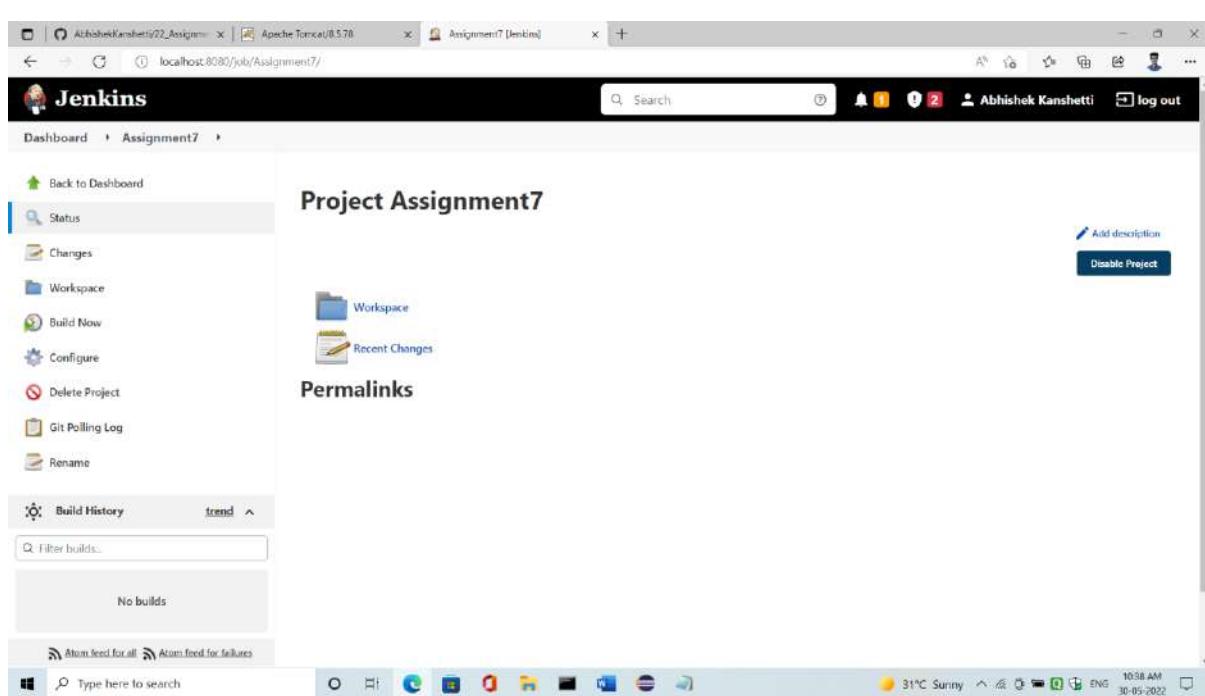
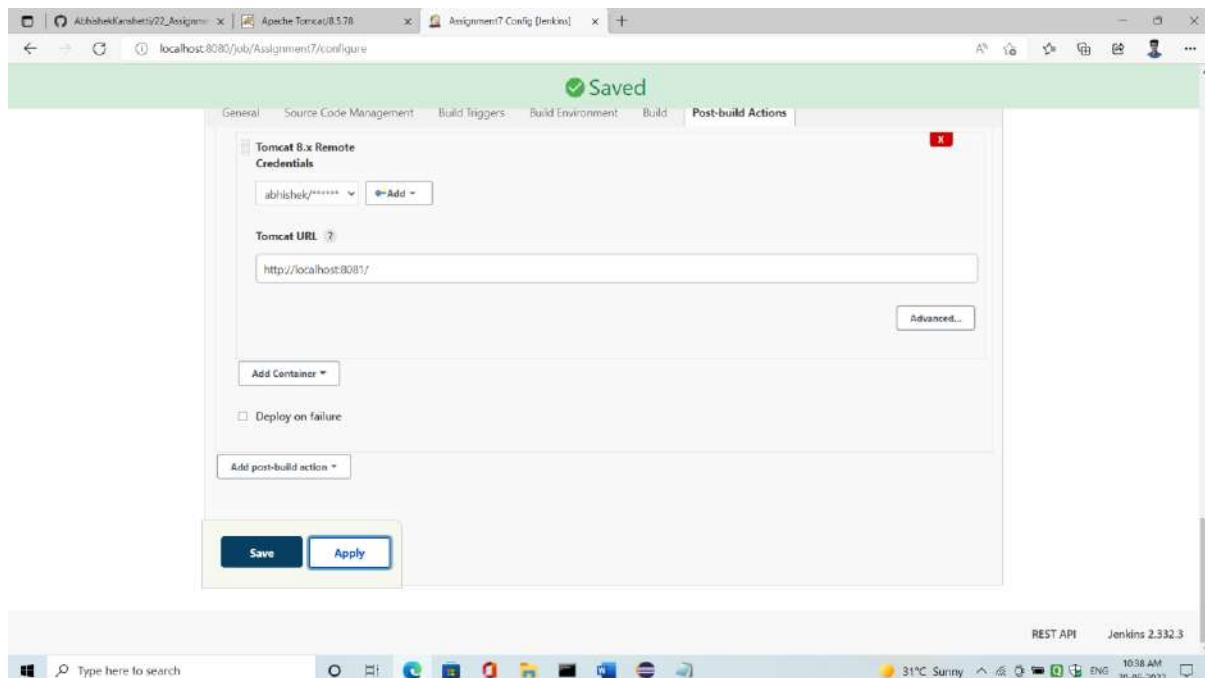
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INFORMATION TECHNOLOGY
2021-22 SEMESTER-II
DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Then, Click on Apply: -



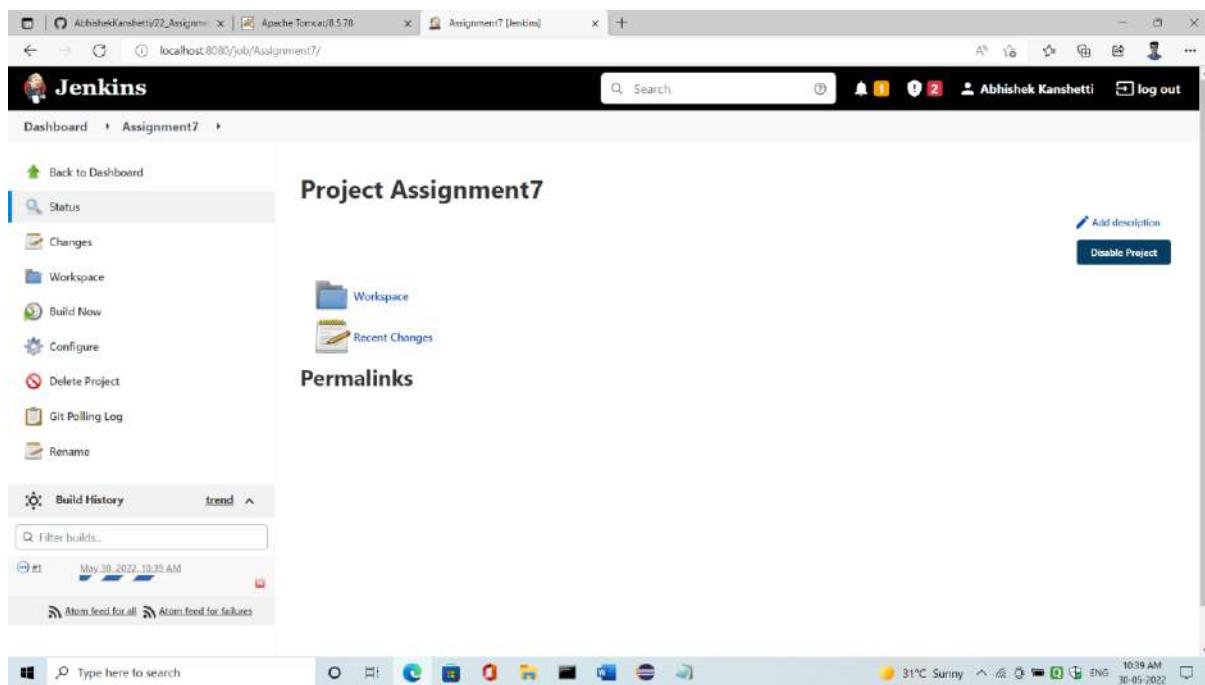
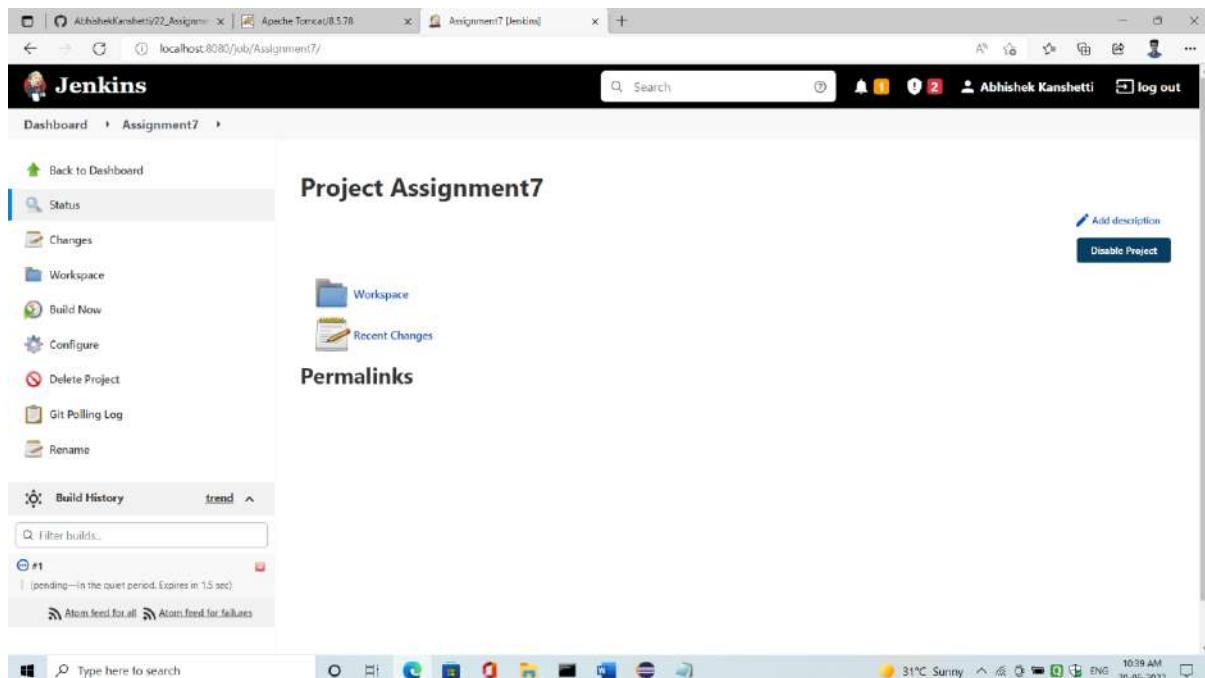
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Build is Started as follow: -



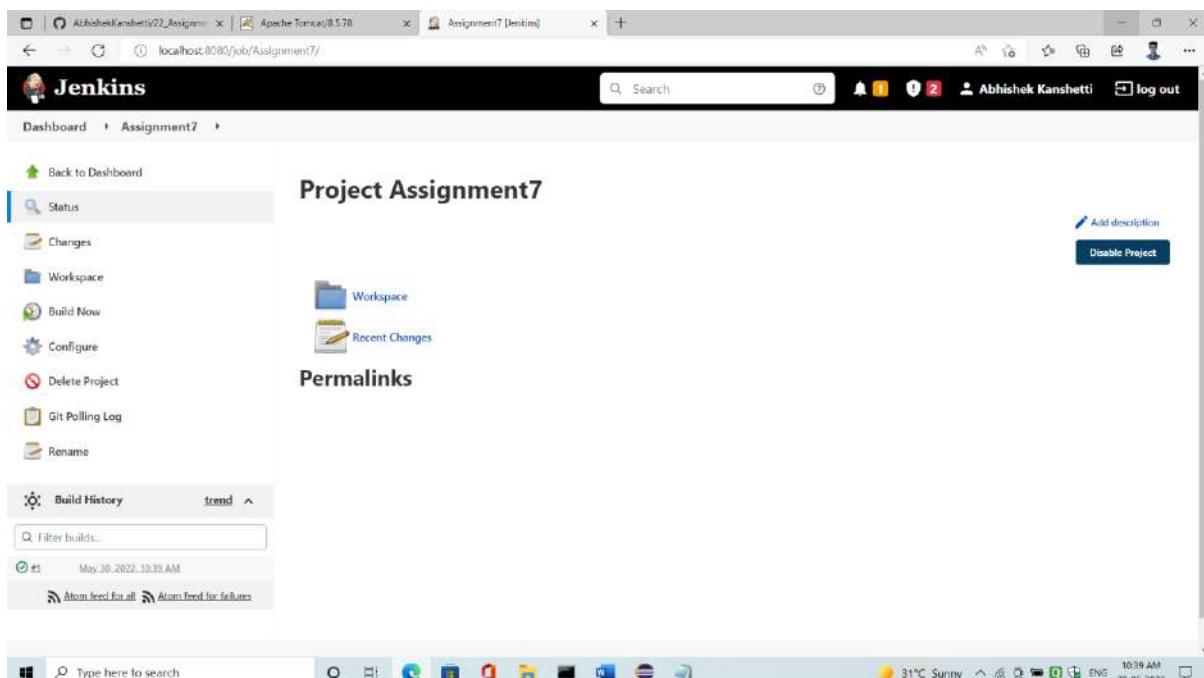
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INFORMATION TECHNOLOGY
2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

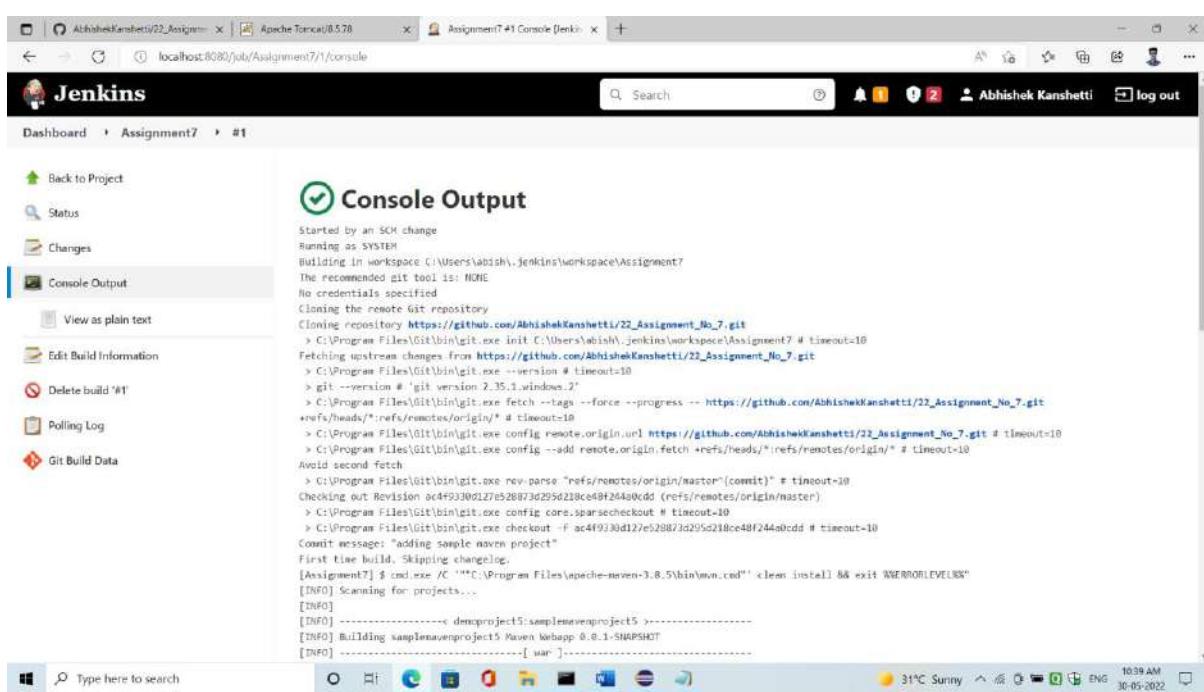
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Build is Successful as below: -



Console Output as below: -



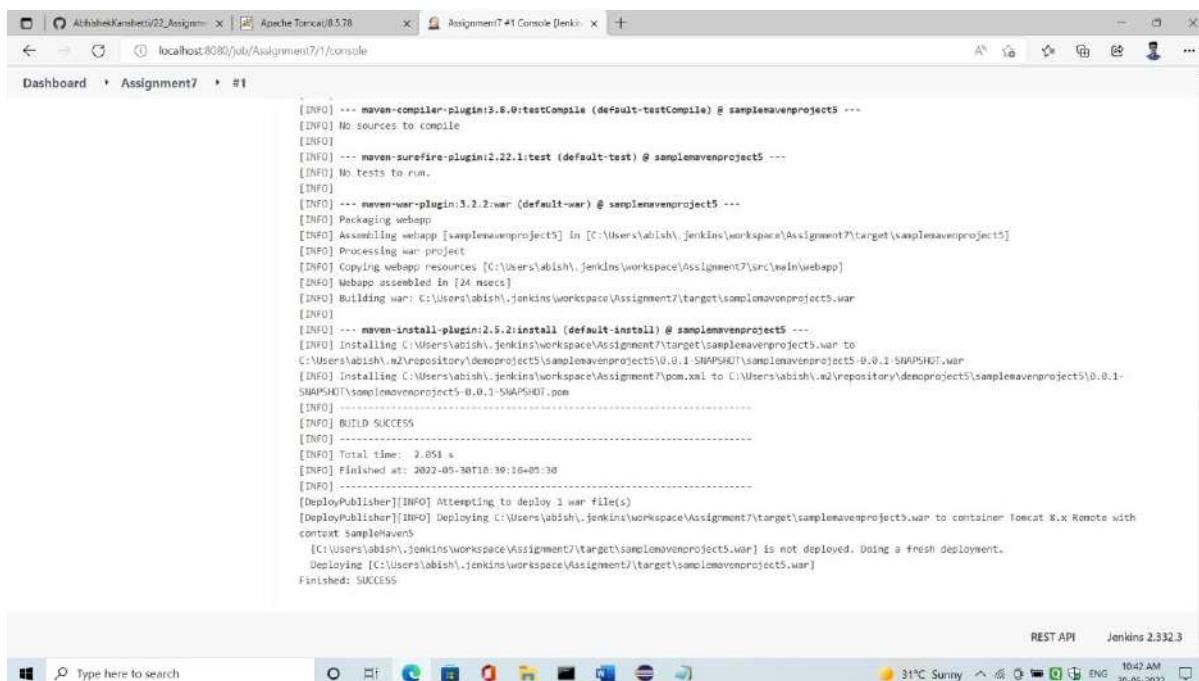
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

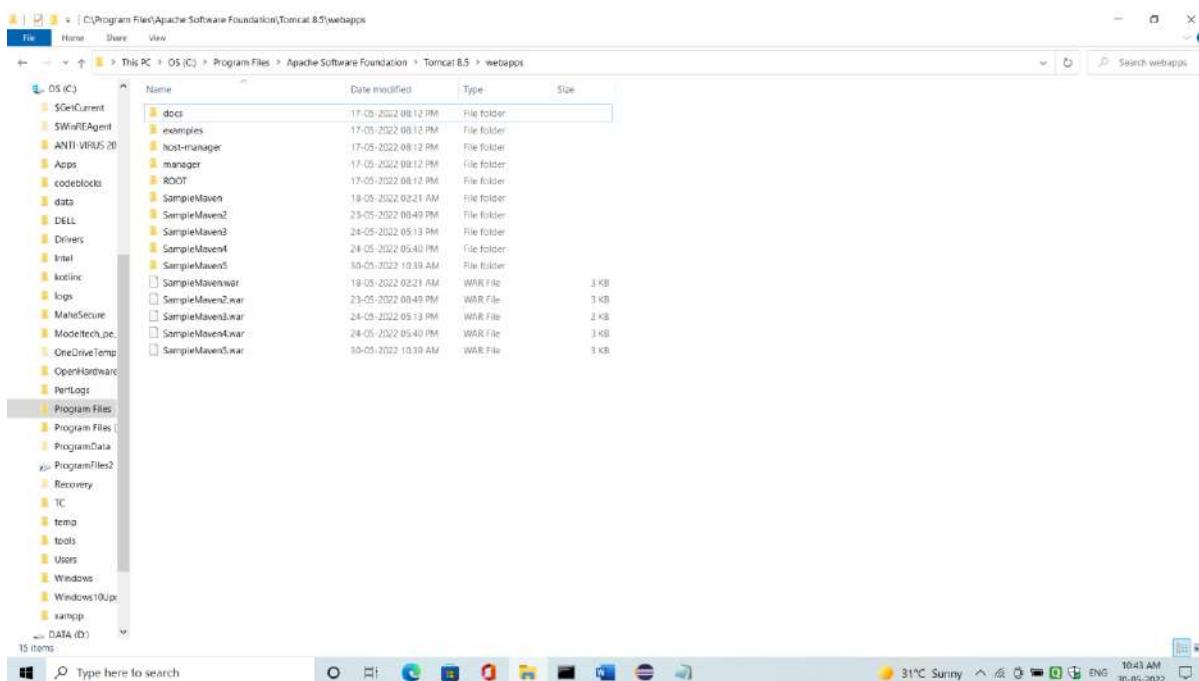
ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin



```
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ samplemavenproject5 ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ samplemavenproject5 ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:3.2.2:war (default-war) @ samplemavenproject5 ---
[INFO] Packaging webapp
[INFO] Assembling webapp [samplemavenproject5] in [C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Users\abish\jenkins\workspace\Assignment7\src\main\webapp]
[INFO] Webapp assembled in [24 ms]
[INFO] Building war: C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ samplemavenproject5 ---
[INFO] Installing C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war to C:\Users\abish\.m2\repository\demoproject5\samplemavenproject5\0.0.1-SNAPSHOT\samplemavenproject5-0.0.1-SNAPSHOT.war
[INFO] Installing C:\Users\abish\jenkins\workspace\Assignment7\pom.xml to C:\Users\abish\.m2\repository\demoproject5\samplemavenproject5\0.0.1-SNAPSHOT\samplemavenproject5-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.051 s
[INFO] Finished at: 2022-05-30T10:39:16+05:30
[INFO] -----
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war to container Tomcat 8.x Remote with context SampleMaven5
[DeployPublisher][INFO] Deploying [C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war] is not deployed. Doing a fresh deployment.
Deploying [C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war]
Finished: SUCCESS
```

In Webapp folder, SampleMaven5 and SampleMaven5.war is generated as below:-



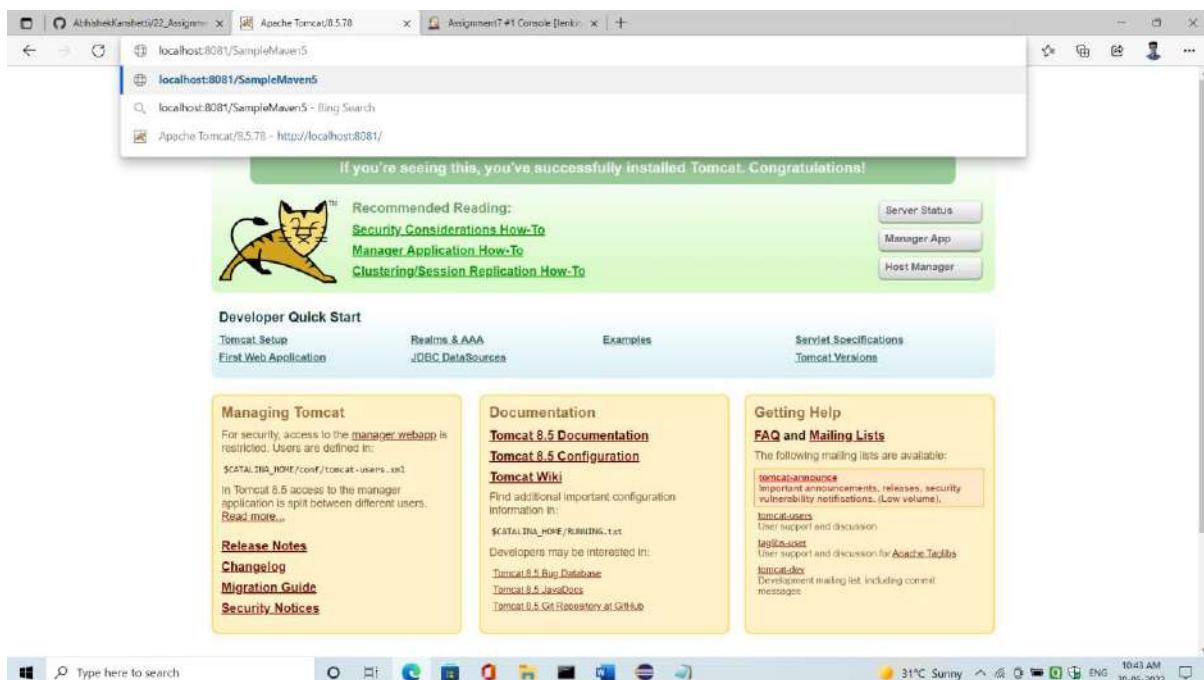
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

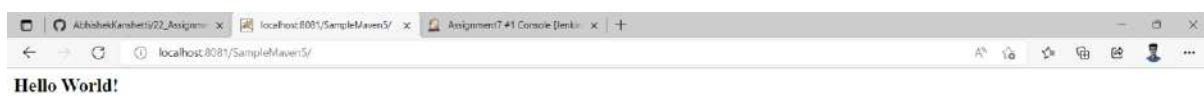
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
We Will enter URL as below: -



We Will get the output as below: -



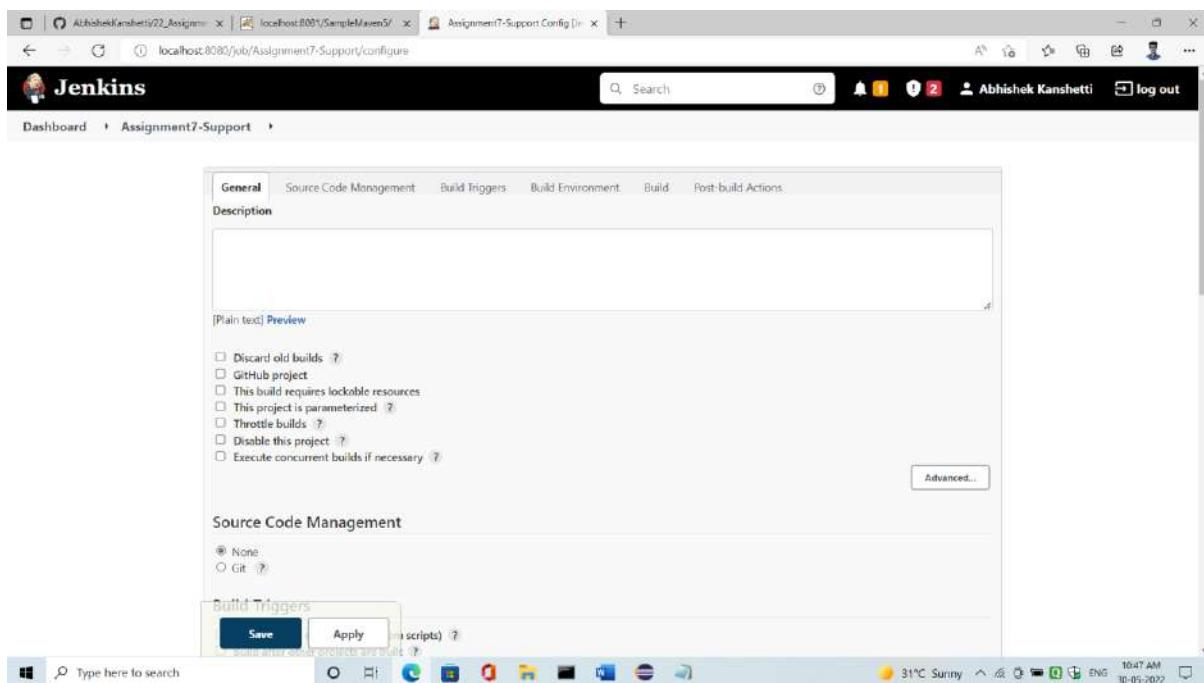
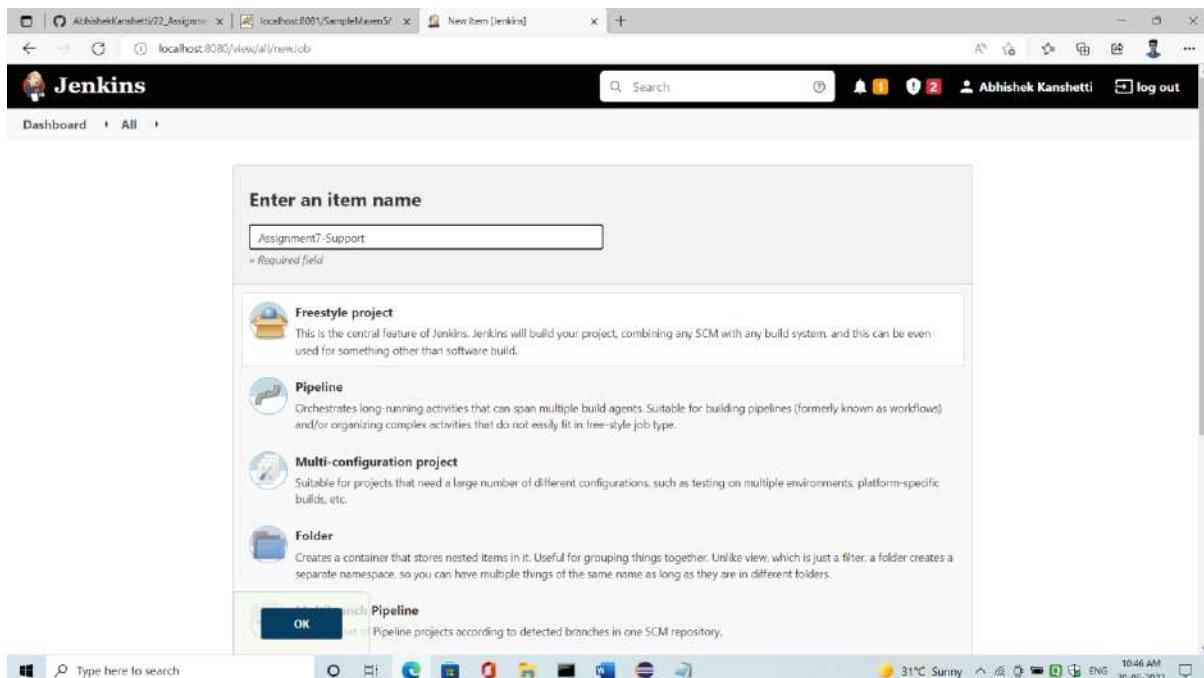
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Then we will create a new job as below: -



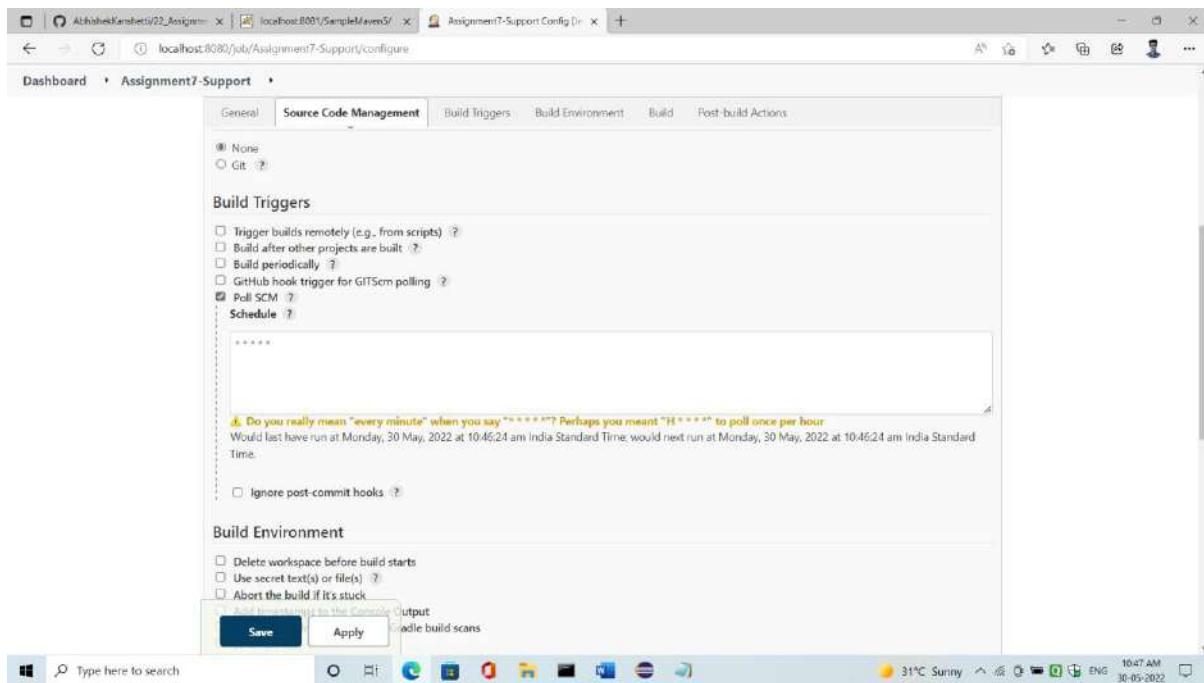
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Name: Abhishek Basavraj Kanshetti

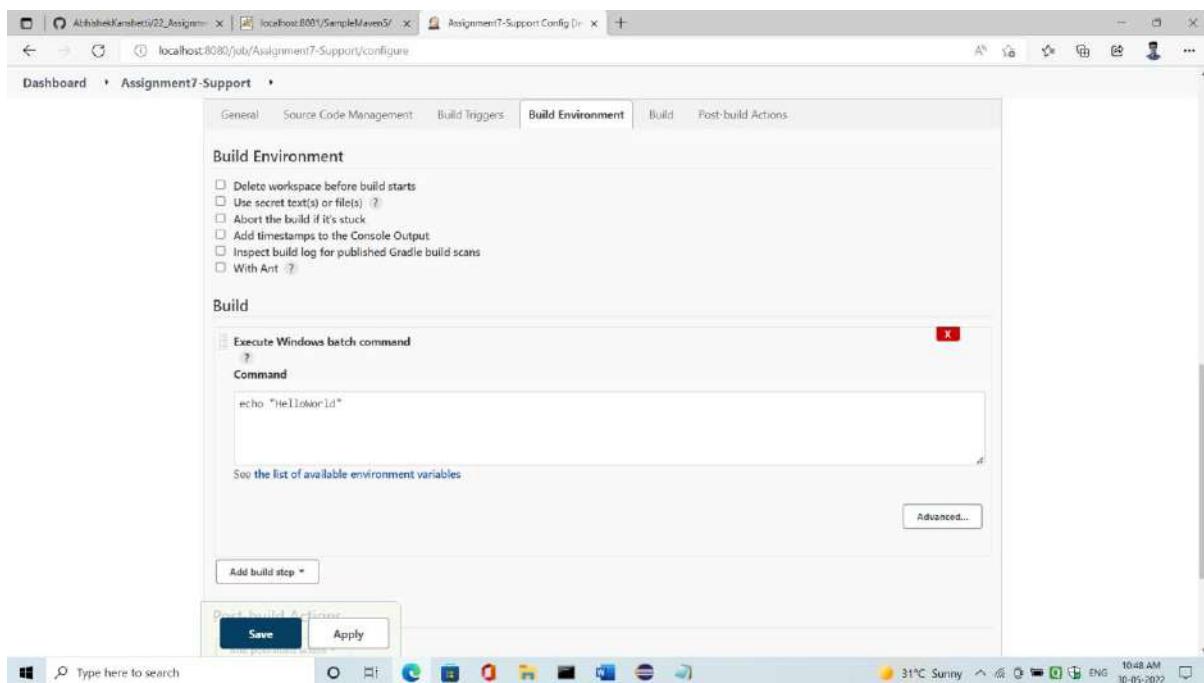
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins "Deploy to Container" Plugin and "Build Pipeline" Plugin
We will Enter “* * * * *” in Poll SCM as below: -



We will select Execute Windows batch command in build options and give command as below: -



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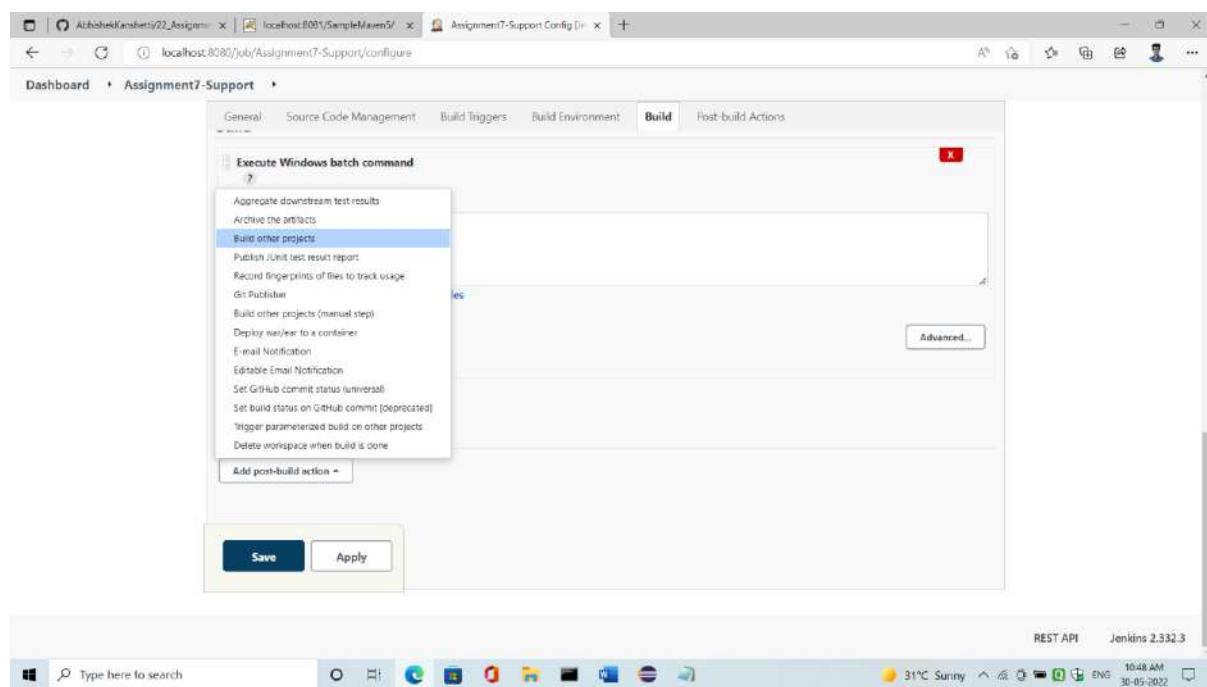
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins "Deploy to Container" Plugin and "Build Pipeline" Plugin

In post build options, we need to select build other project option as below: -



Here, we will enter project name which will build after this project and will be shown as downstream project as below: -

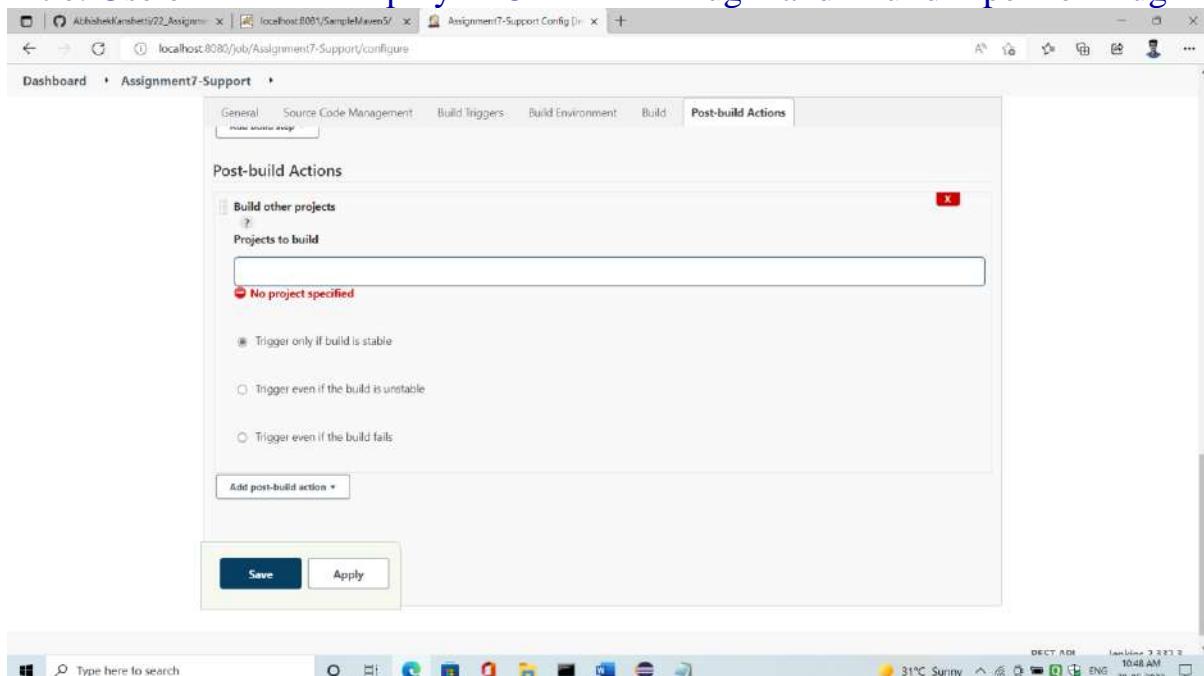
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Name: Abhishek Basavraj Kanshetti

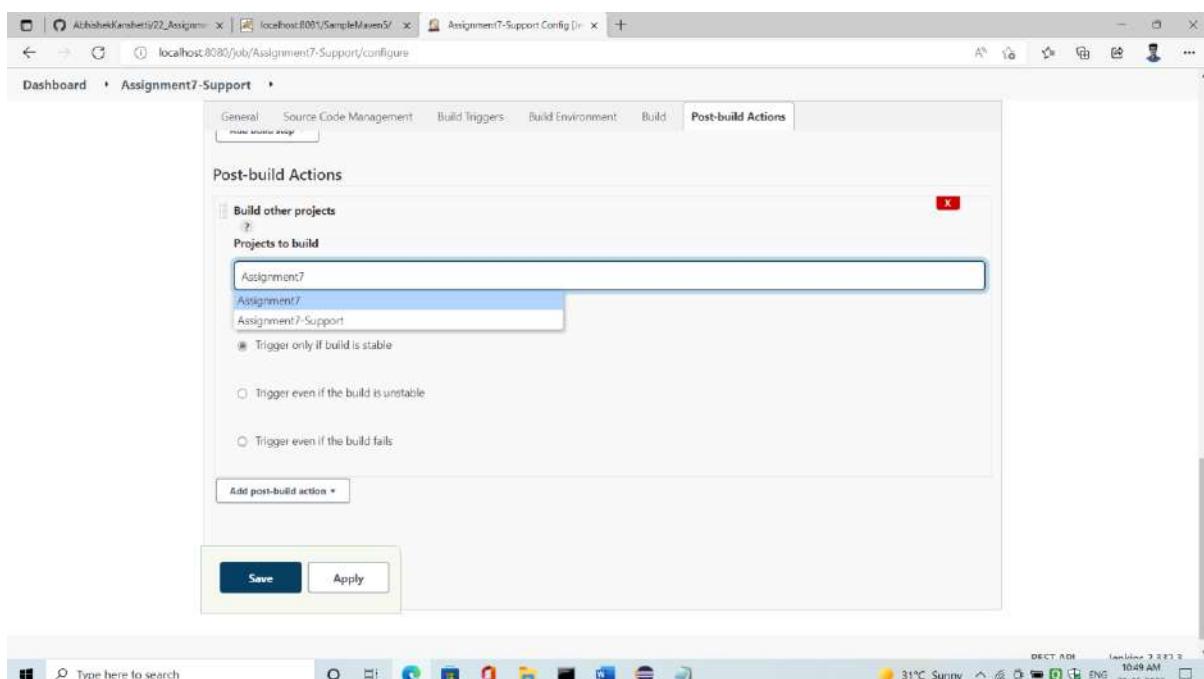
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins "Deploy to Container" Plugin and "Build Pipeline" Plugin



Entered project name as below: -



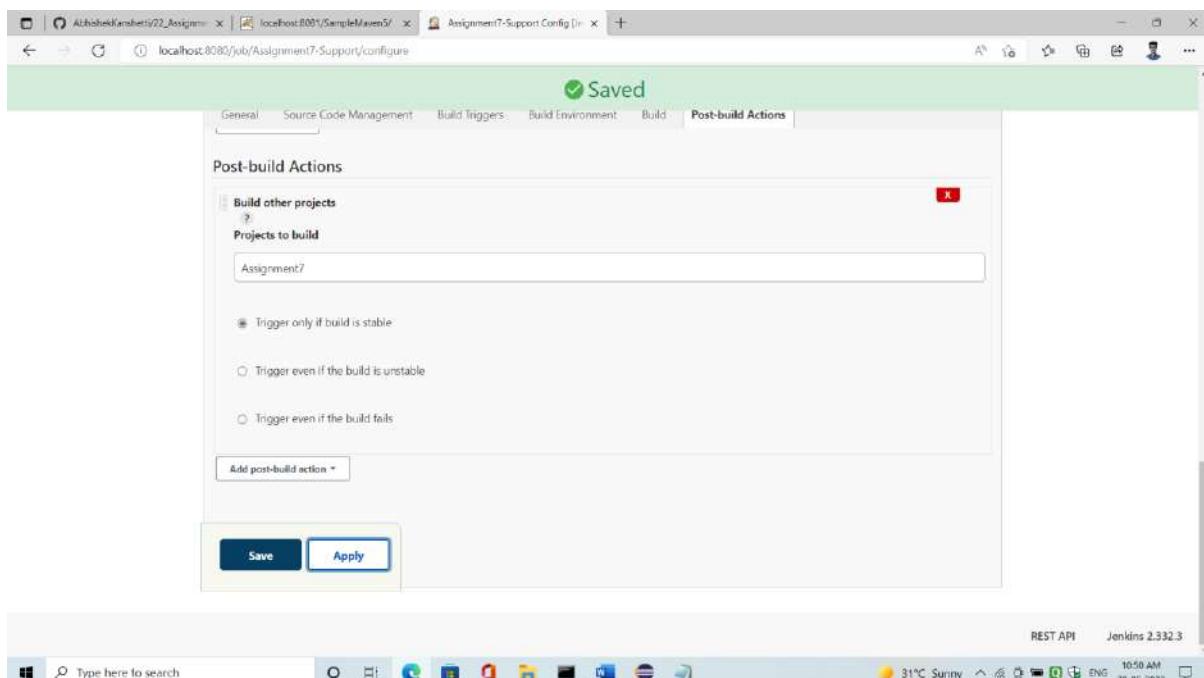
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Name: Abhishek Basavraj Kanshetti

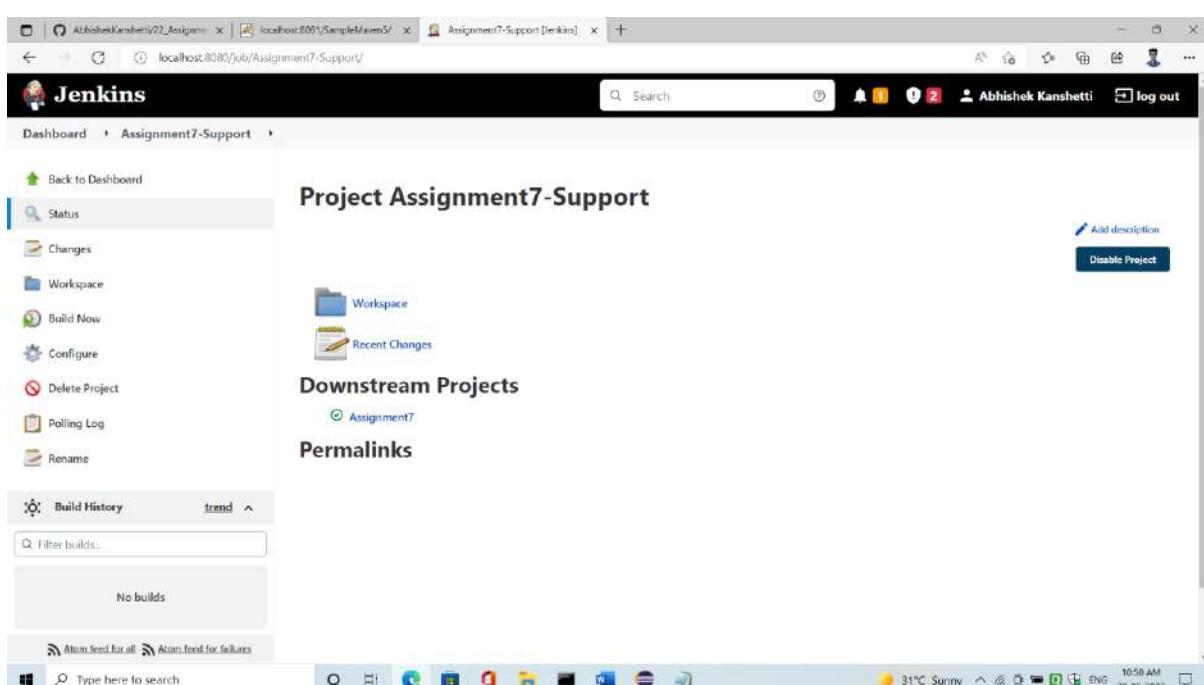
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
After that we need to click on Apply: -



Here we can see job is created and In downstream project we can see “Assignment7” as below: -



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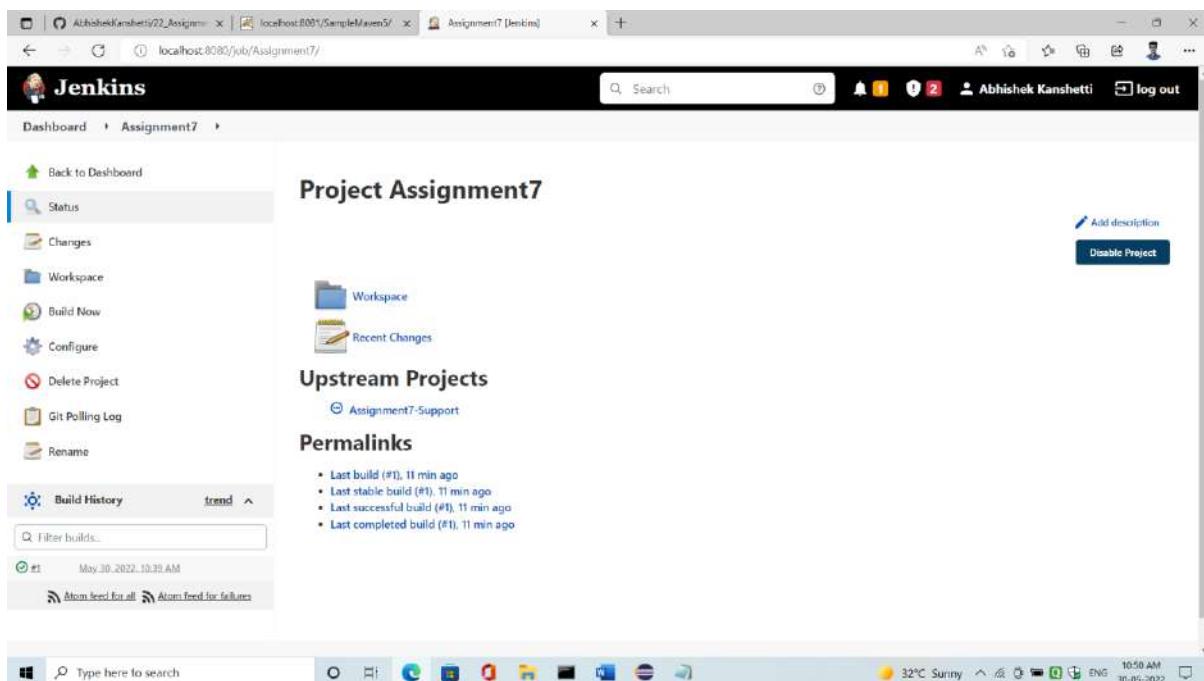
Name: Abhishek Basavraj Kanshetti

Roll No: 22

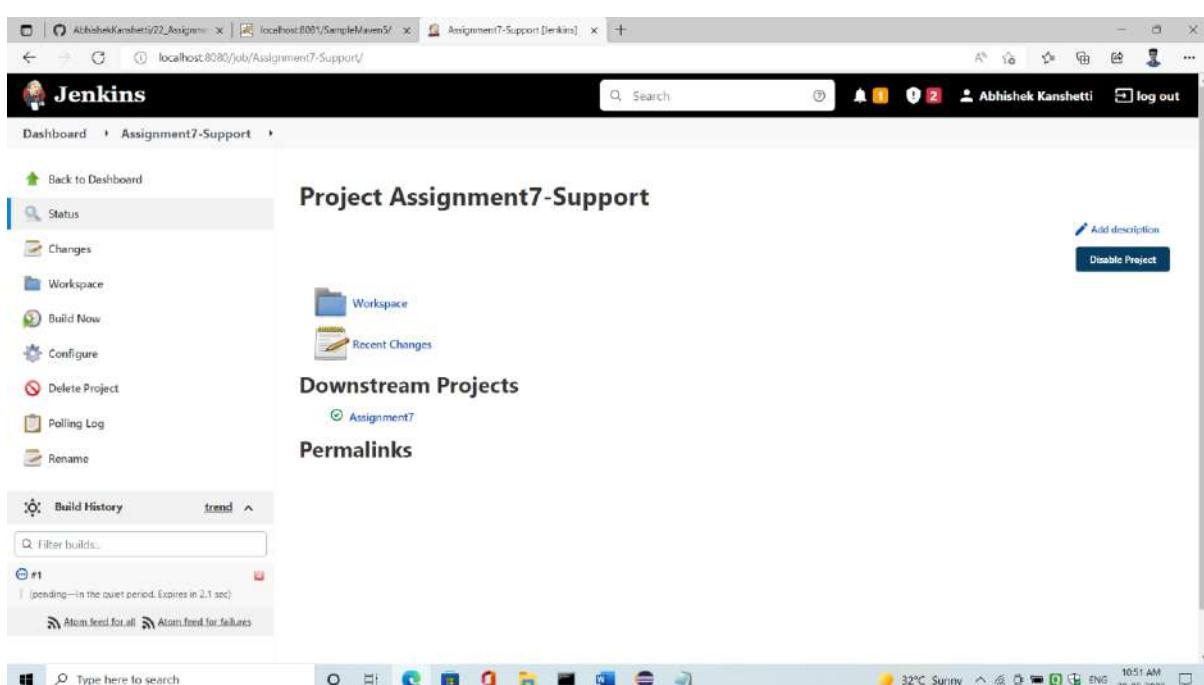
ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
And in Assignment7 job, we can in Upstream Project

Assignment7-Support is there: -



Build in progress:-



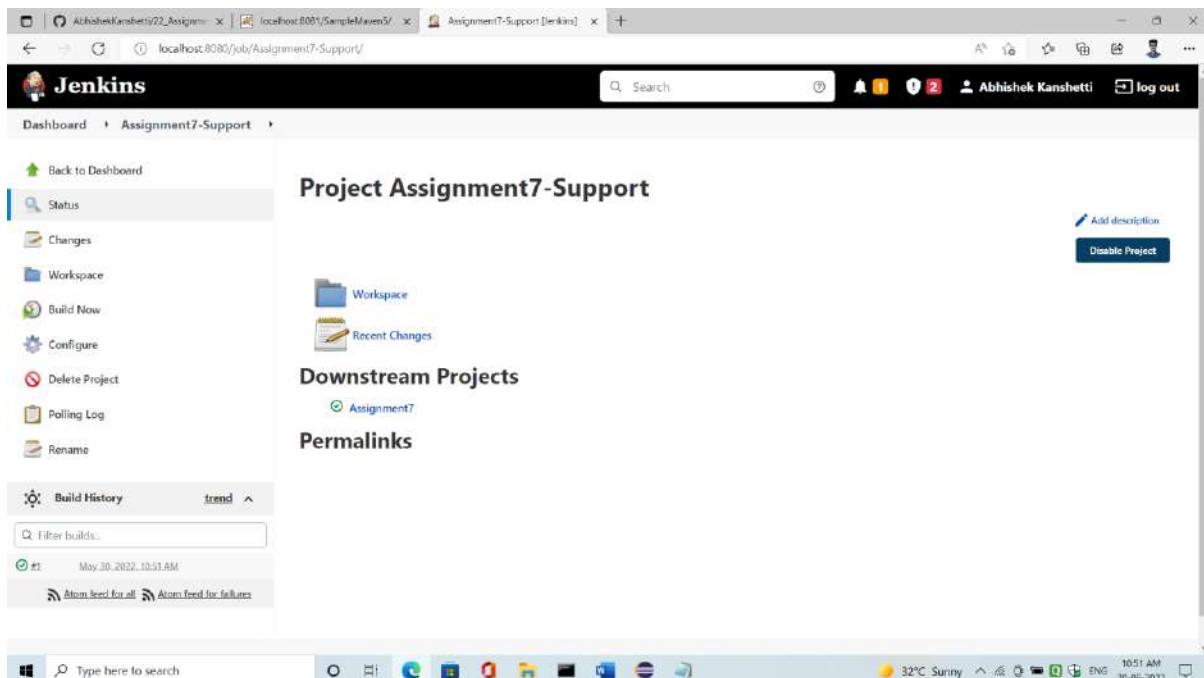
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Name: Abhishek Basavraj Kanshetti

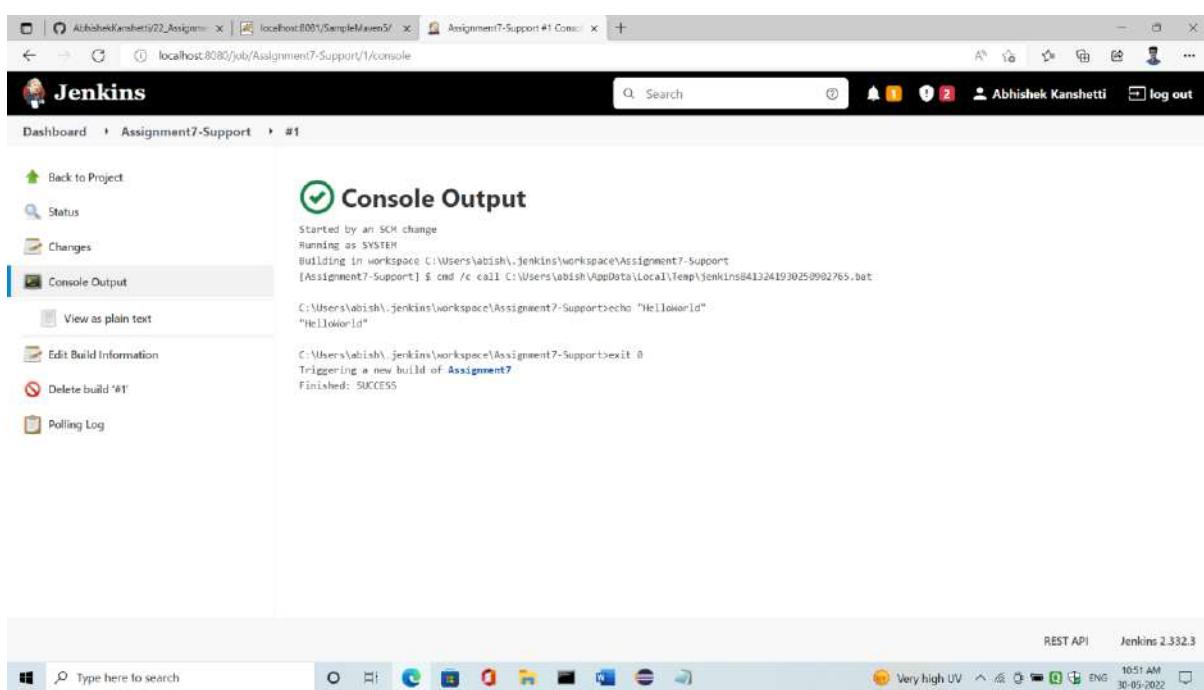
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Build is Successful:-



In Console Output, we can see it is triggering a new build of “Assignment7” as below: -



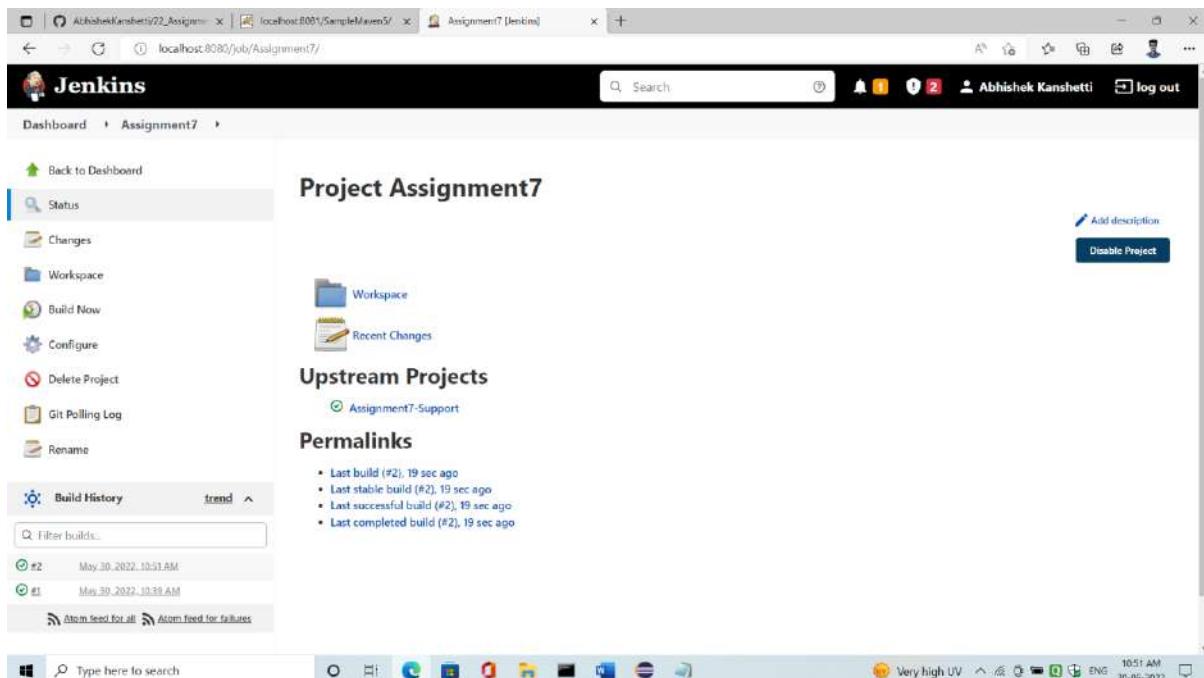
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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

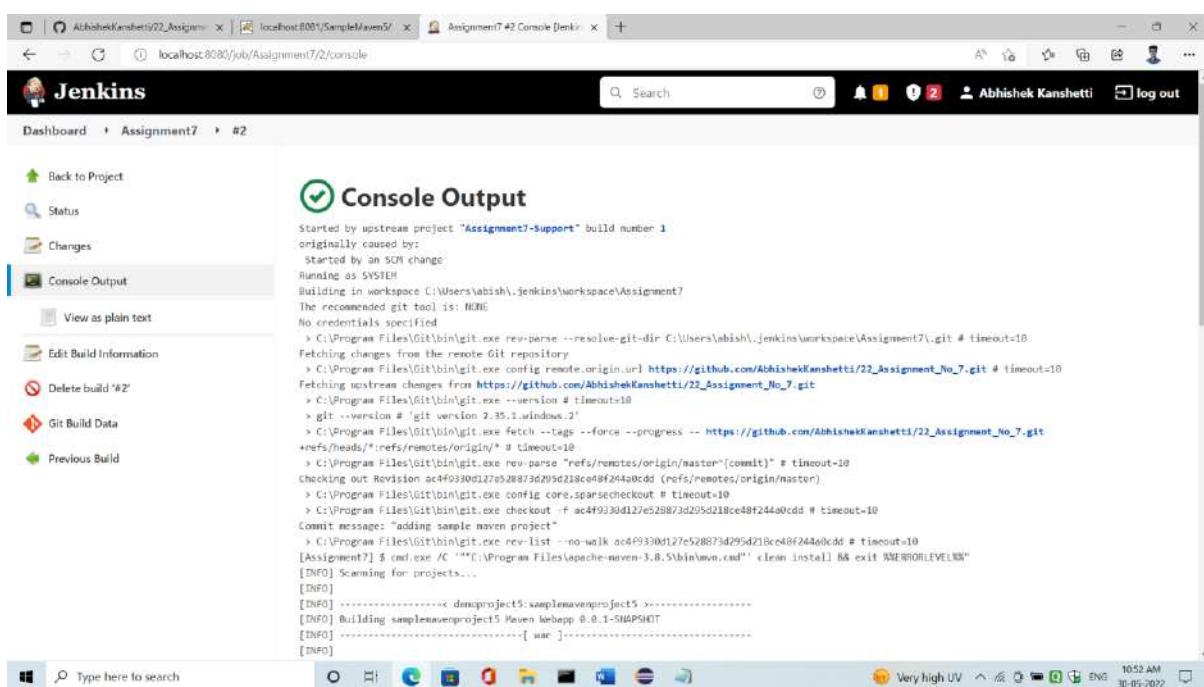
ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
New Build is generated as below (#2): -



The screenshot shows the Jenkins Project Assignment7 dashboard. On the left, there's a sidebar with links like Back to Dashboard, Status, Changes, Workspace, Build Now, Configure, Delete Project, Git Polling Log, Rename, and Build History. The Build History section shows two builds: #2 (May 30, 2022, 10:51 AM) and #1 (May 30, 2022, 10:39 AM). Below the sidebar is a main content area titled "Project Assignment7". It includes sections for "Upstream Projects" (Assignment7-Support) and "Permalinks". A "Build History" table lists the last four builds. At the bottom of the page, there's a search bar and system status indicators.

Console Output as below: -



The screenshot shows the Jenkins Project Assignment7 build #2 console output. The title is "Console Output" with a green checkmark icon. The output text is as follows:

```

Started by upstream project "Assignment7-Support" build number 1
originally caused by:
Started by an SCM change
Running as SYSTEM
Building in workspace C:\Users\abish\.jenkins\workspace\Assignment7
The recommended git tool is: NONE
No credentials specified
> C:\Program Files\Git\bin\git.exe rev-parse --resolve-git-dir C:\Users\abish\.jenkins\workspace\Assignment7\.git # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/AbhishekKanshetti/22_Assignment_No_7.git # timeout=10
Fetching upstream changes from https://github.com/AbhishekKanshetti/22_Assignment_No_7.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # git version 2.35.1.windows.2
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/AbhishekKanshetti/22_Assignment_No_7.git
+refs/heads/* refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision acf4930d127e528873d209d218ce0f264a0cdd (refs/remotes/origin/master)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f acf4930d127e528873d209d218ce0f264a0cdd # timeout=10
Commit message: "adding sample maven project"
> C:\Program Files\Git\bin\git.exe rev-list --no-walk acf4930d127e528873d209d218ce0f264a0cdd # timeout=10
[Assignment7] $ cmd.exe /C ""C:\Program Files\Apache Maven\3.8.5\bin\mvn.cmd" clean install && exit %ERRORLEVEL%"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< domcpj5:samplenaviproject5 >-----
[INFO] Building samplenaviproject5 Maven Webapp 0.0.1-SNAPSHOT
[INFO] -----[ war ]-----
[INFO]
```

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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin

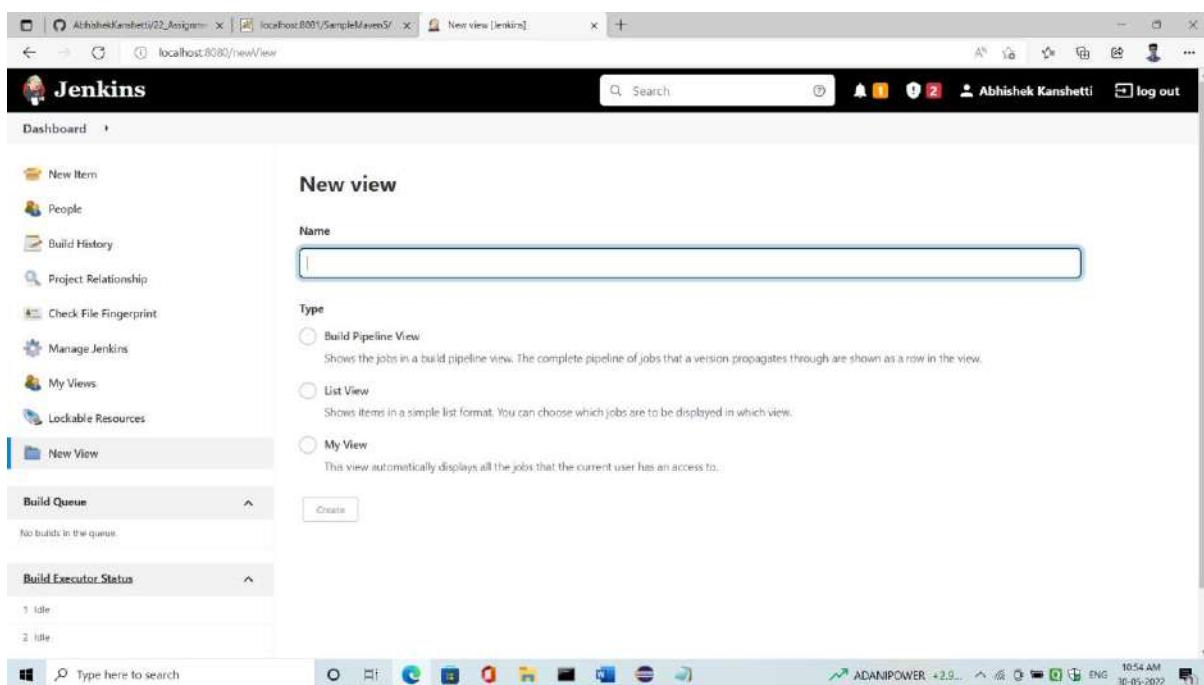


```

[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ samplemavenproject5 ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:3.2.2:war (default-war) @ samplemavenproject5 ---
[INFO] Packaging webapp
[INFO] Assembling webapp [samplemavenproject5] in [C:\Users\Abish\jenkins\workspace\Assignment7\target\samplemavenproject5]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Users\Abish\jenkins\workspace\Assignment7\src\main\webapp]
[INFO] Webapp assembled in [27 msecs]
[INFO] Building war: C:\Users\Abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ samplemavenproject5 ---
[INFO] Installing C:\Users\Abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war to C:\Users\Abish\.m2\repository\demoproject5\samplemavenproject5\0.0.1-SNAPSHOT\samplemavenproject5-0.0.1-SNAPSHOT.war
[INFO] Installing C:\Users\Abish\jenkins\workspace\Assignment7\pom.xml to C:\Users\Abish\.m2\repository\demoproject5\samplemavenproject5\0.0.1-SNAPSHOT\samplemavenproject5-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.474 s
[INFO] Finished at: 2022-05-30T10:51:25+05:30
[INFO] -----
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying C:\Users\Abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war to container Tomcat 8.x Remote with context SampleMaven
  Redeploying [C:\Users\Abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war]
  Undeploying [C:\Users\Abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war]
  Deploying [C:\Users\Abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war]
Finished: SUCCESS

```

Here, We will create New View as below: -



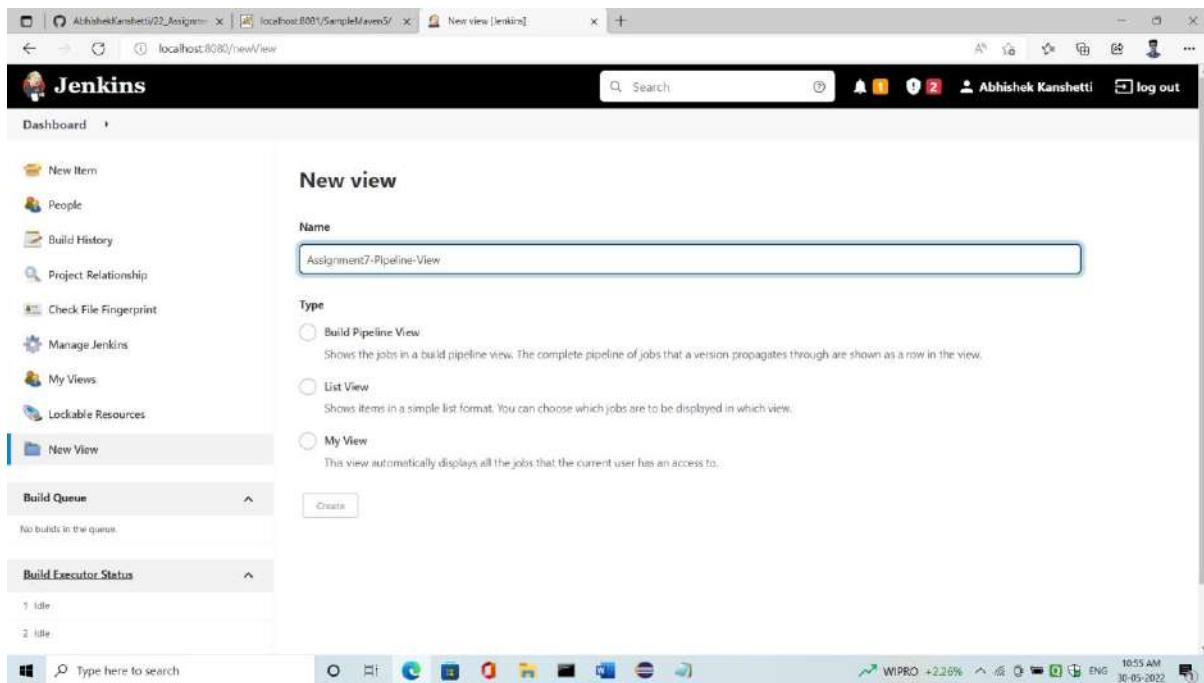
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Name: Abhishek Basavraj Kanshetti

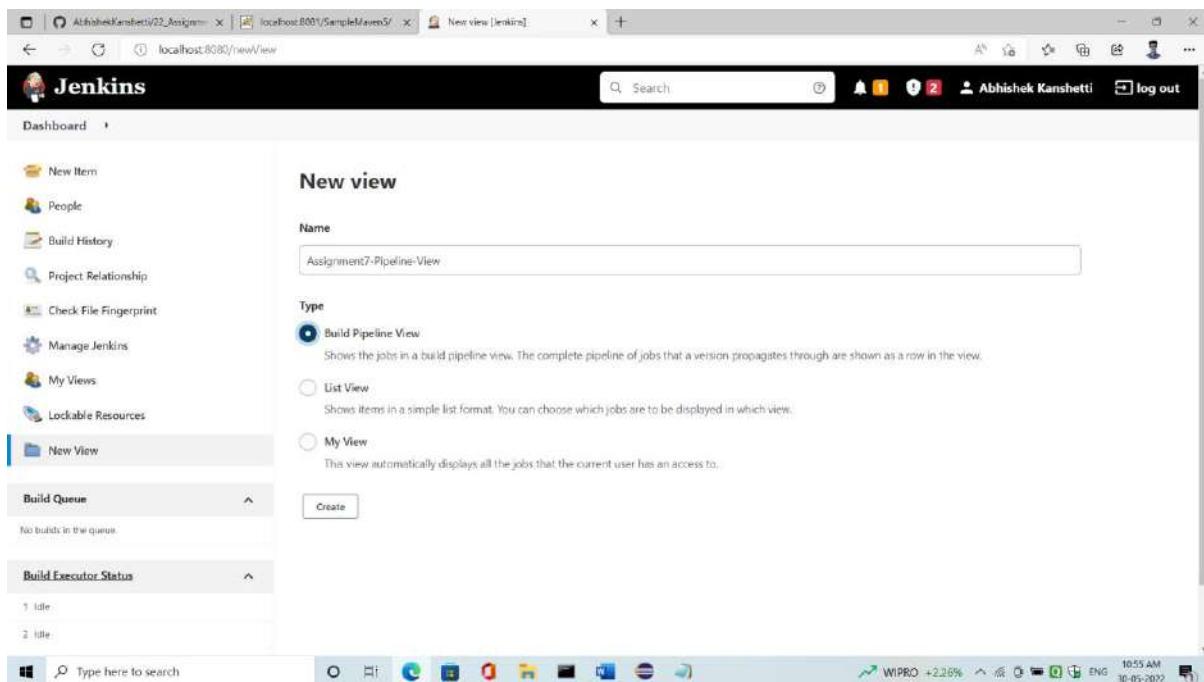
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Entered the Name of the view as below: -



Here, we will select the Build Pipeline View as below: -



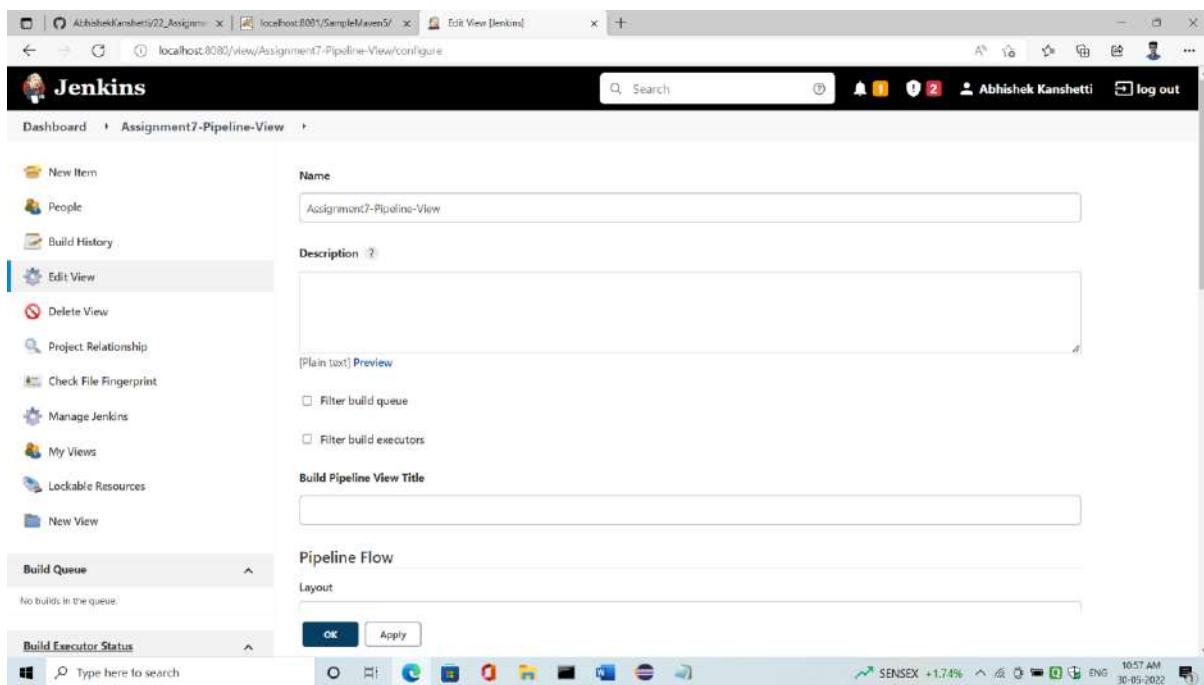
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Name: Abhishek Basavraj Kanshetti

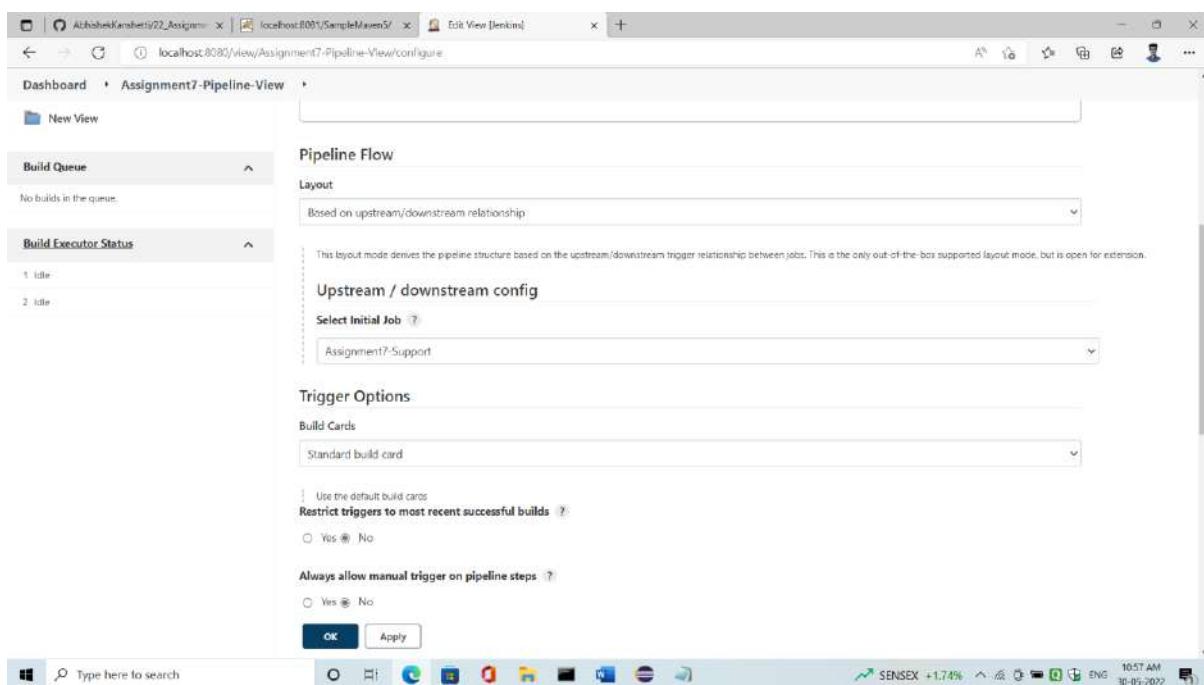
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
We will enter settings as below: -



We will select initial job as “Assignment7-Support” as below: -



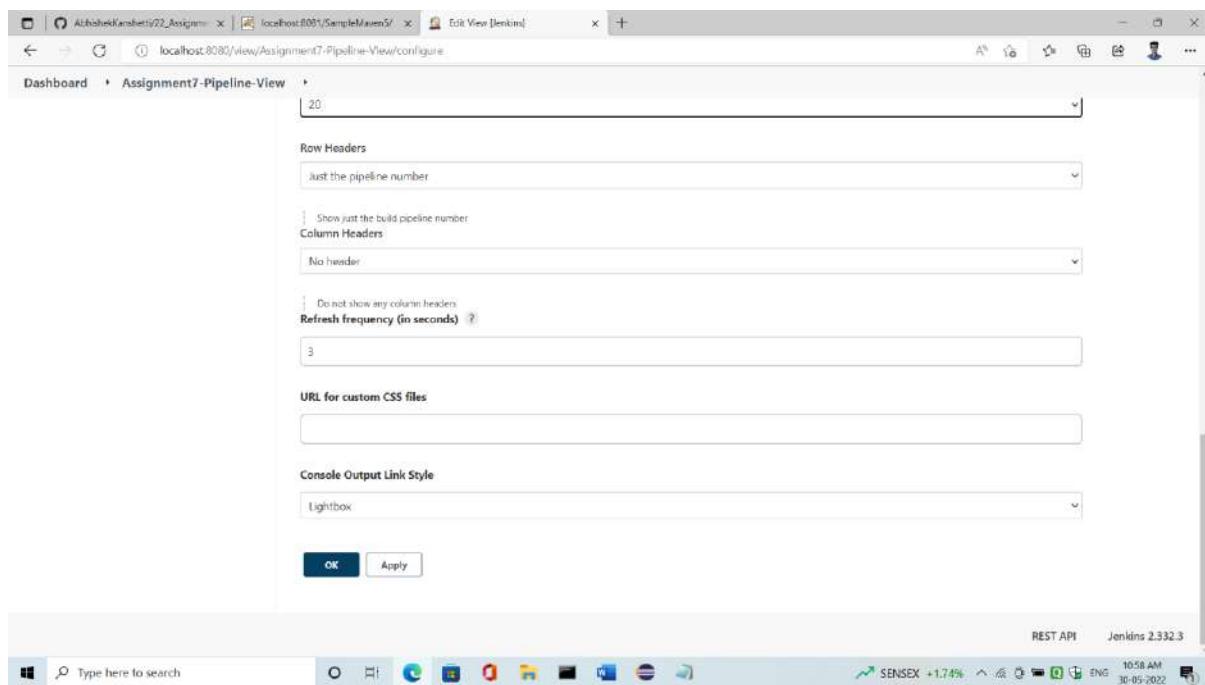
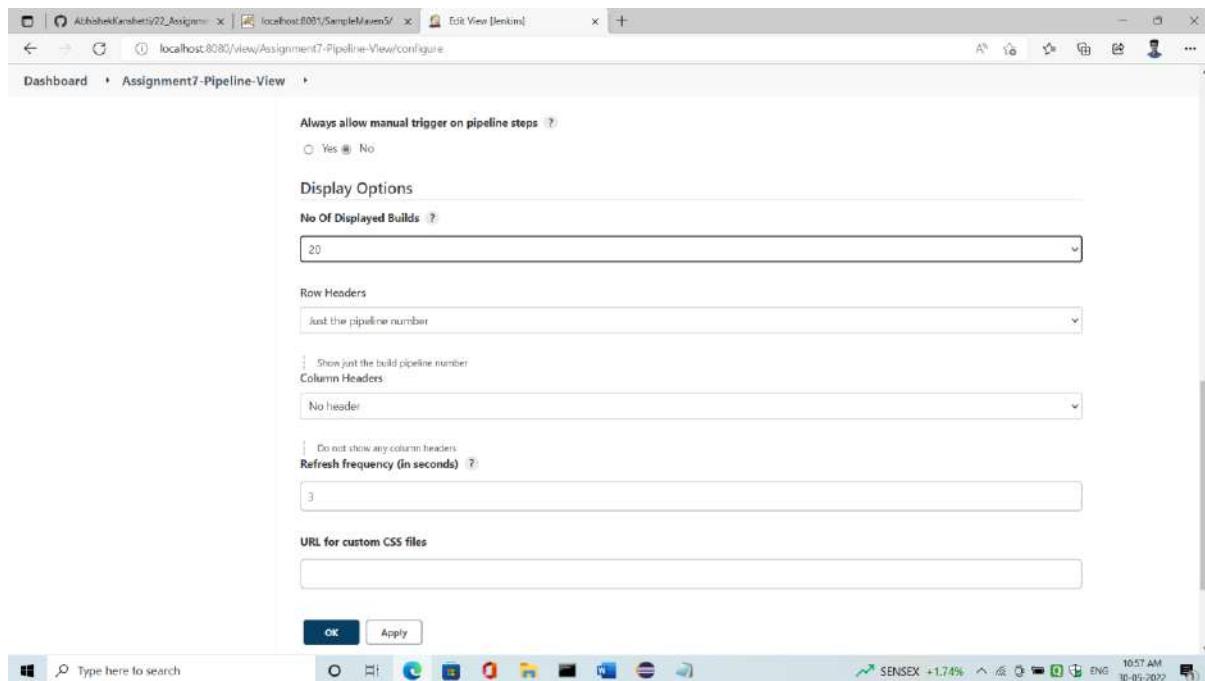
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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
We will select number of builds as 20: -



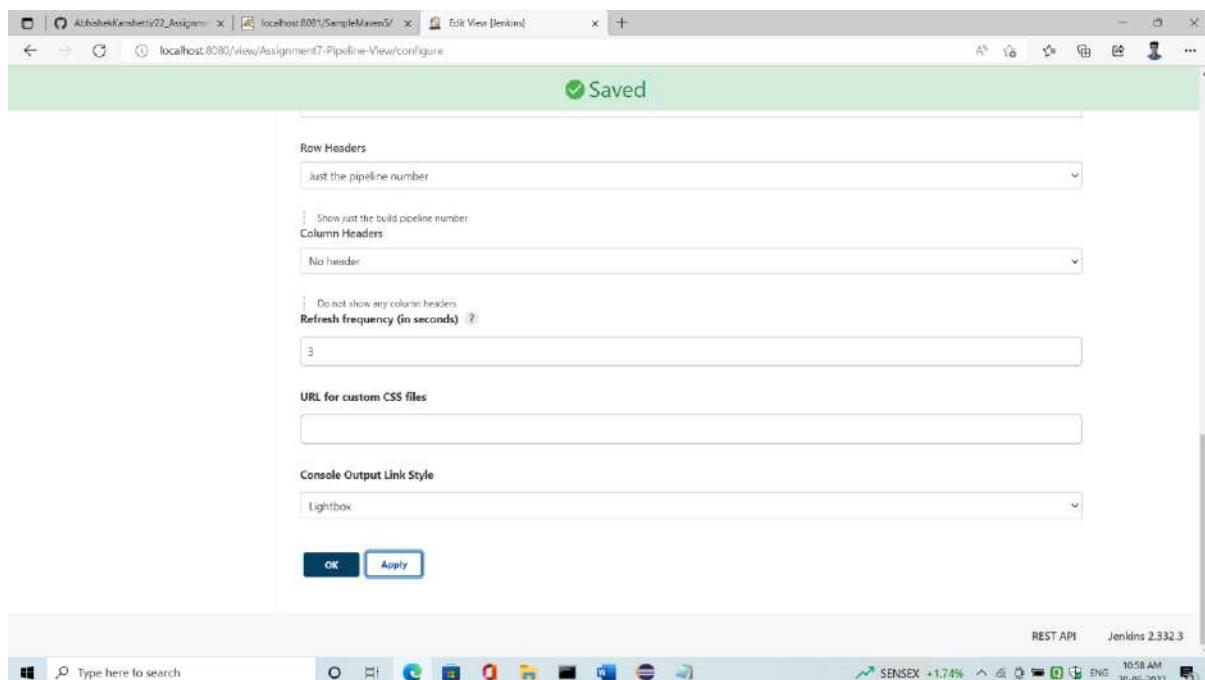
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DEVOPS**

Name: Abhishek Basavraj Kanshetti

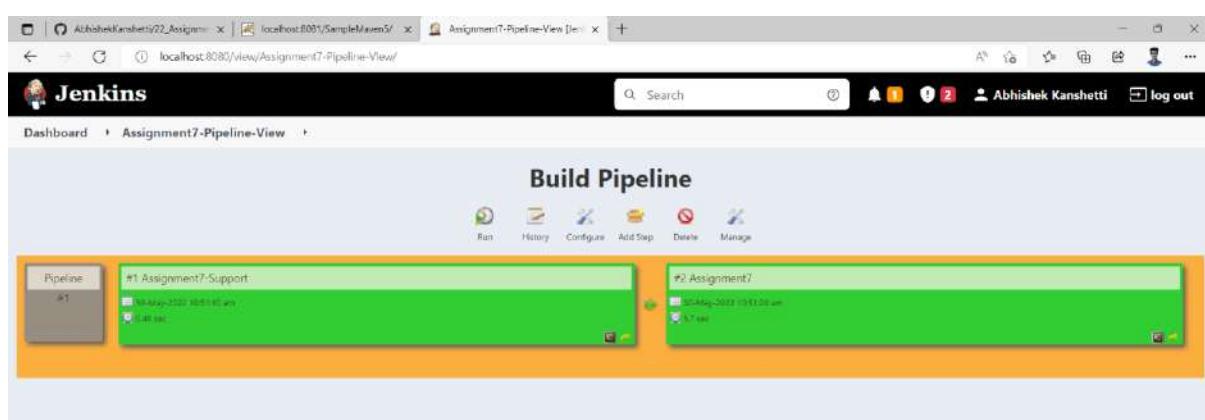
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
We will select Apply as below:-



Here, we can see the already Builds Pipeline as below:-



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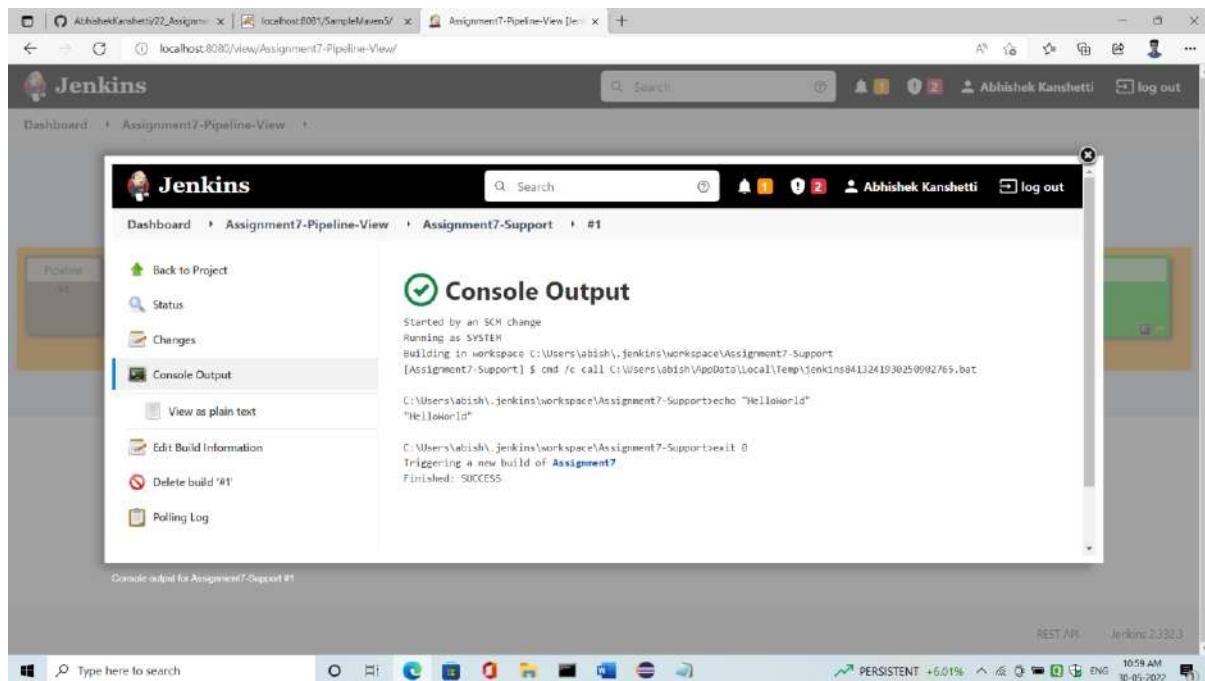
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin

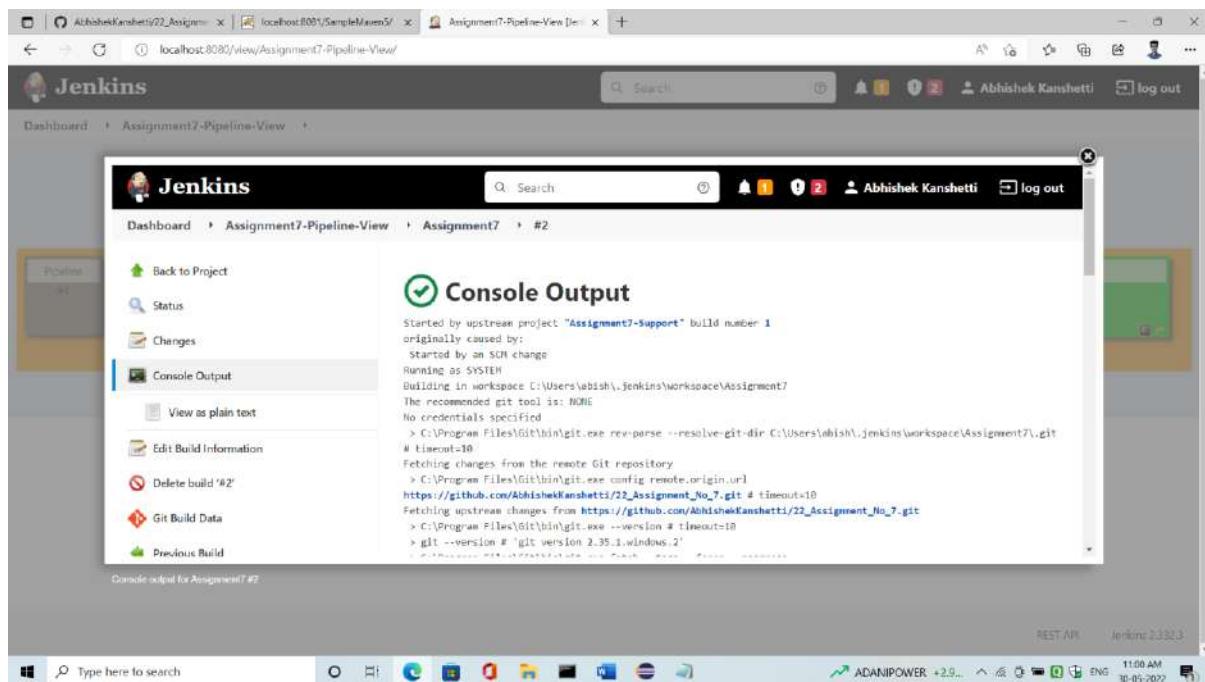
Console output of job1: -



The screenshot shows the Jenkins interface for a build named 'Assignment7-Support' with build number '#1'. The 'Console Output' tab is selected. The output window displays the following log entries:

```
Started by an SCM change
Running as SYSTEM
Building in workspace C:\Users\abish\jenkins\workspace\Assignment7-Support
[Assignment7-Support] $ cmd /c call C:\Users\abish\appData\Local\Temp\jenkins8413241930250992765.bat
C:\Users\abish\jenkins\workspace\Assignment7-Support>echo "HelloWorld"
"HelloWorld"
C:\Users\abish\jenkins\workspace\Assignment7-Support>exit 0
Triggering a new build of Assignment7-Support
Finished: SUCCESS
```

Console output of job2: -



The screenshot shows the Jenkins interface for a build named 'Assignment7' with build number '#2'. The 'Console Output' tab is selected. The output window displays the following log entries, indicating a git pull operation:

```
Started by upstream project "Assignment7-Support" build number 1
originally caused by:
Started by an SCM change
Running as SYSTEM
Building in workspace C:\Users\abish\jenkins\workspace\Assignment7-Support
The recommended git tool is: NONE
No credentials specified
> C:\Program Files\Git\bin\git.exe rev-parse --resolve-git-dir C:\Users\abish\jenkins\workspace\Assignment7\.git
# timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url
https://github.com/AbhishekKanshetti/22_Assignment_No_7.git # timeout=10
Fetching upstream changes from https://github.com/AbhishekKanshetti/22_Assignment_No_7.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # timeout=10
git version 2.35.1.windows.2'
```

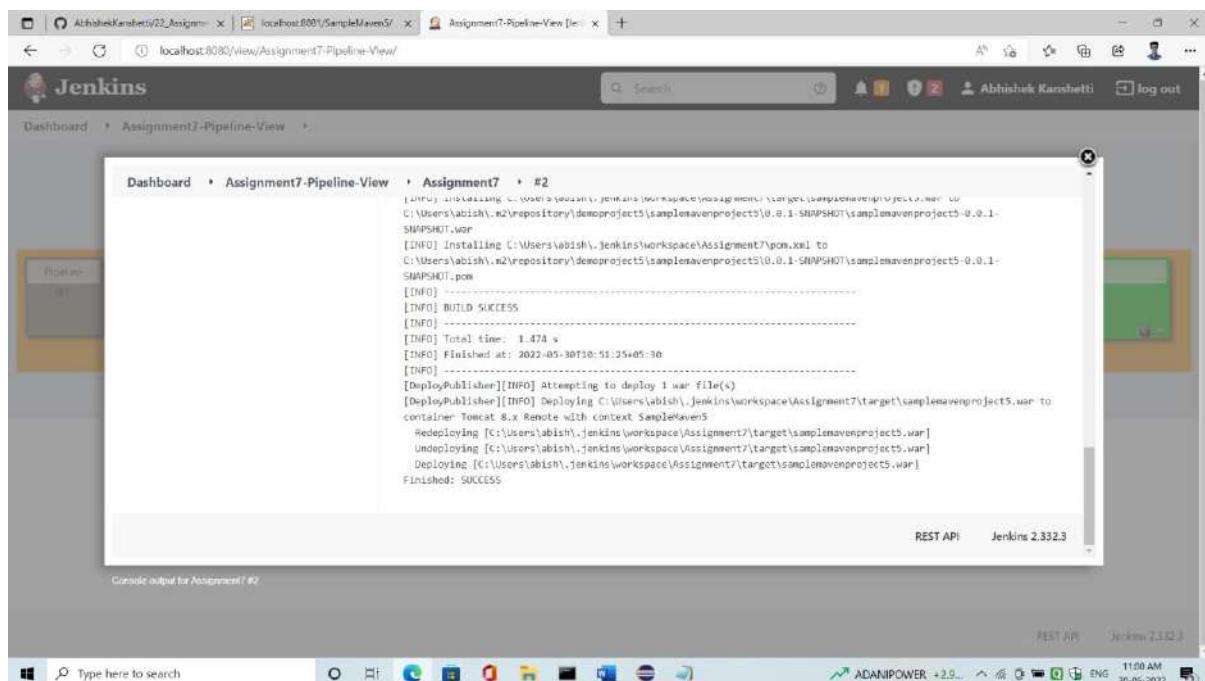
WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

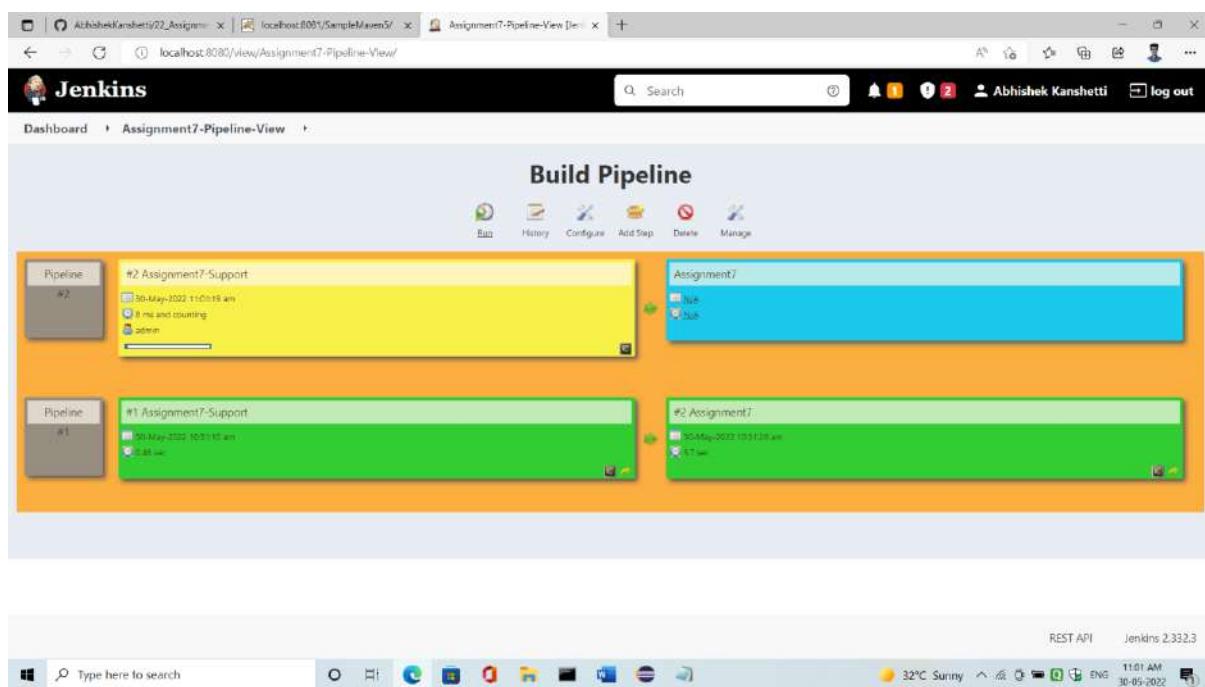
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins "Deploy to Container" Plugin and "Build Pipeline" Plugin



After Clicking on Run Option: -



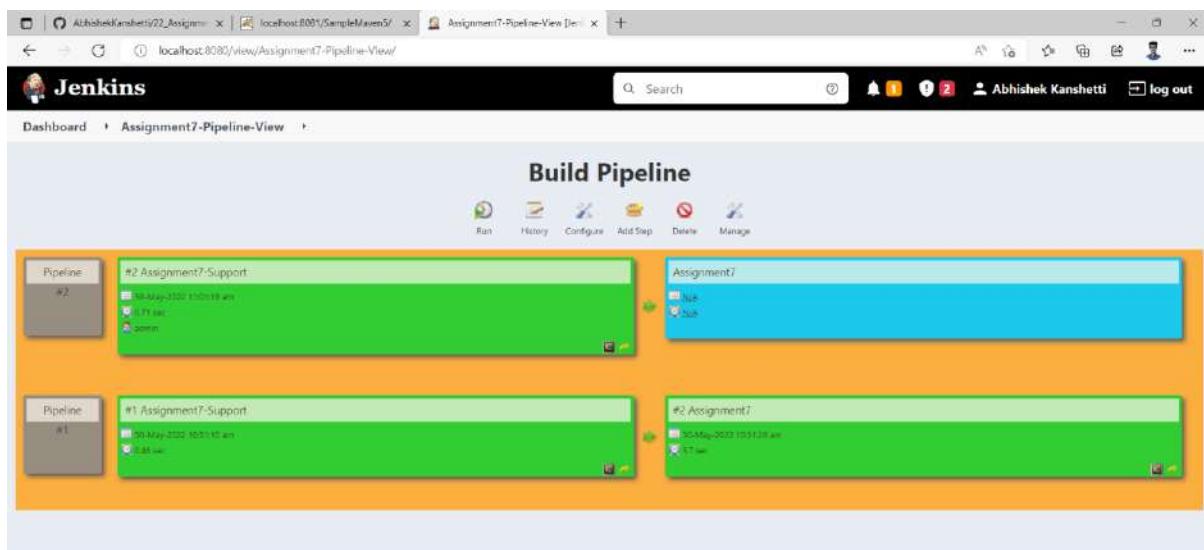
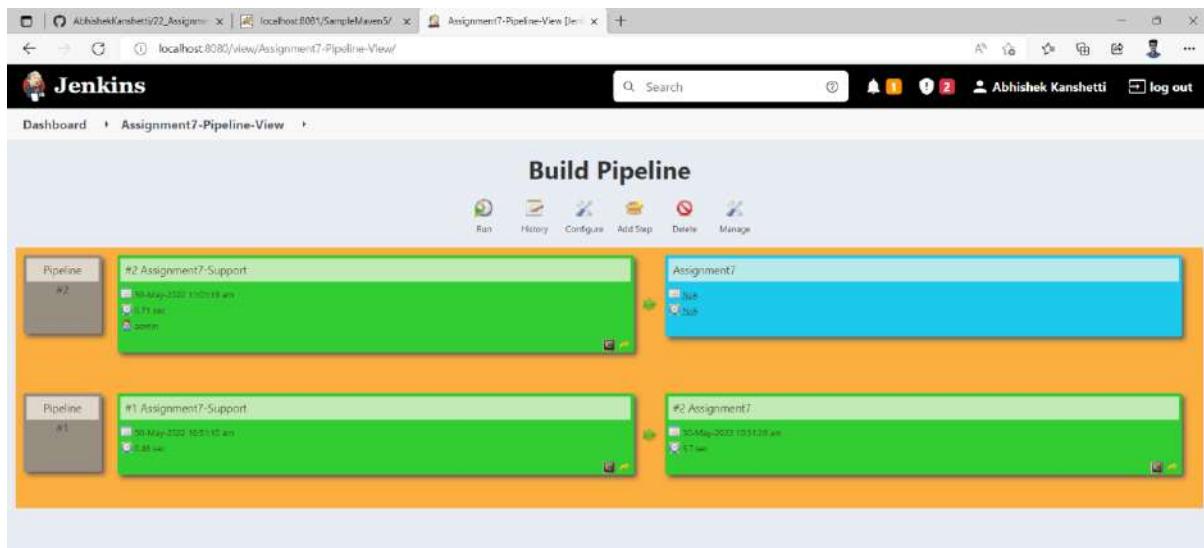
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Here, we can see job1 build is successful as below: -



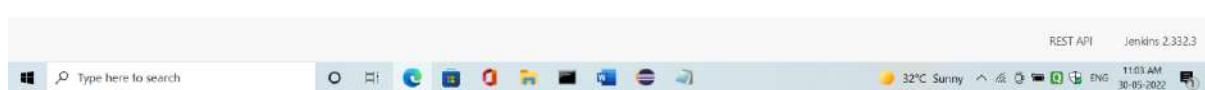
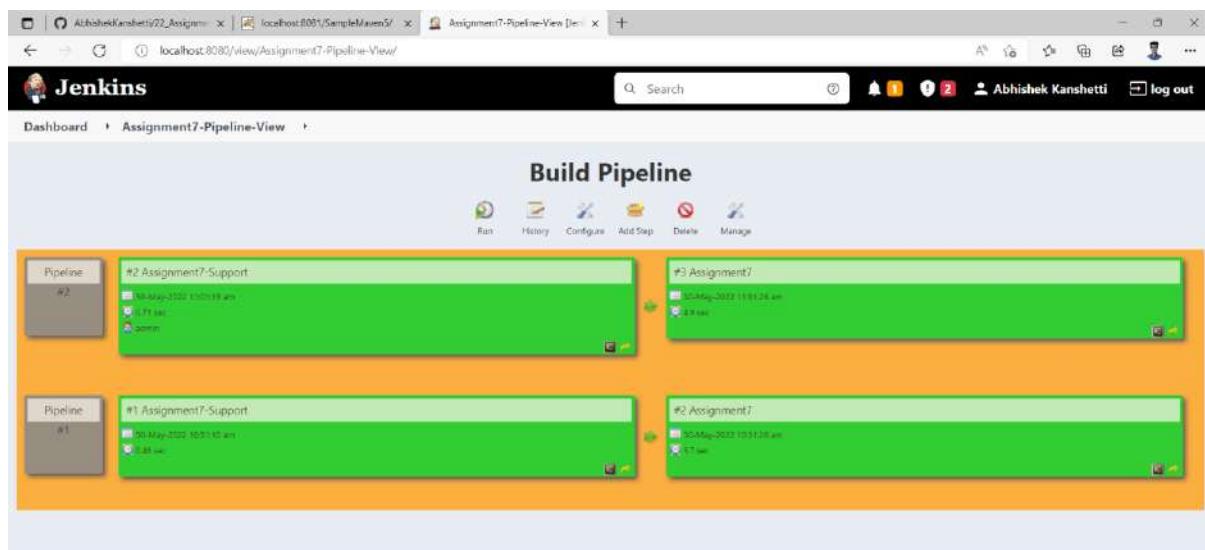
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DEVOPS**

Name: Abhishek Basavraj Kanshetti

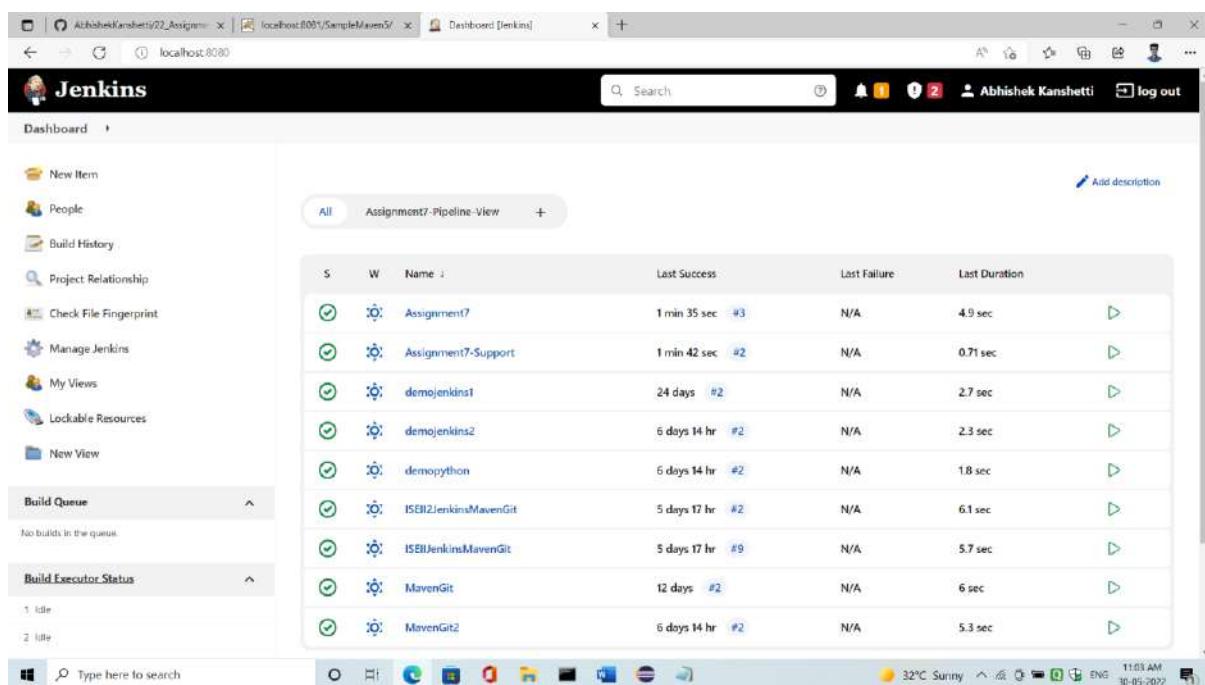
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
Here, we can see job2 build is successful as below: -



In DashBoard, we can see our created view as below: -



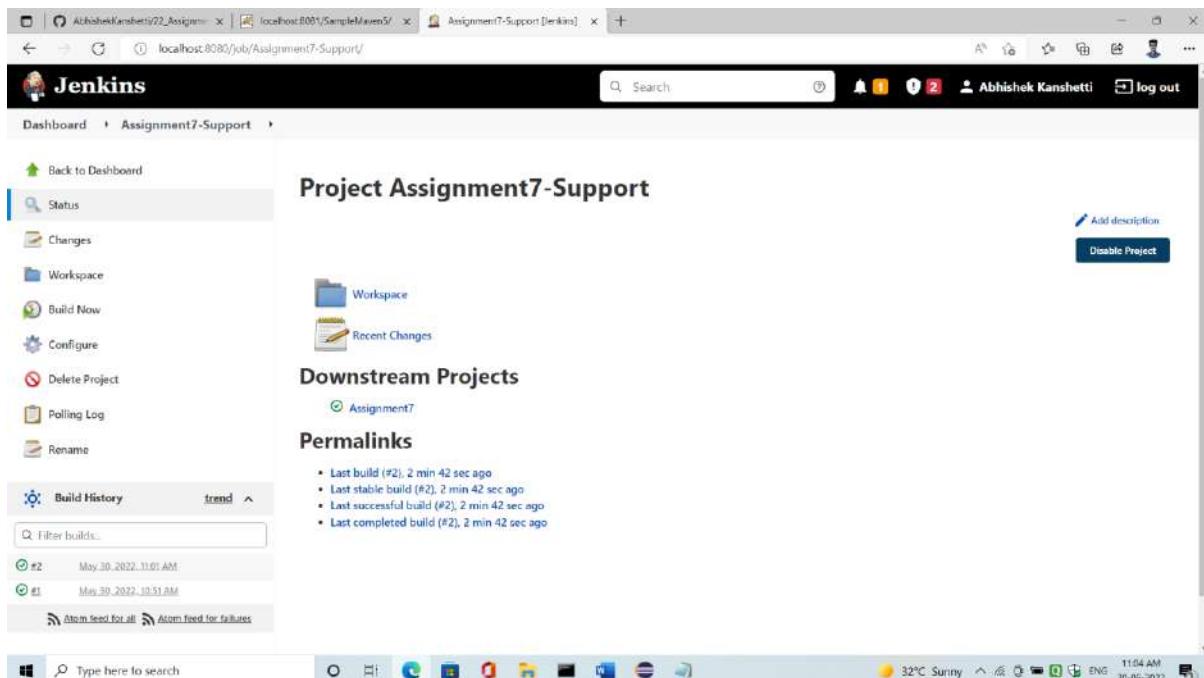
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Name: Abhishek Basavraj Kanshetti

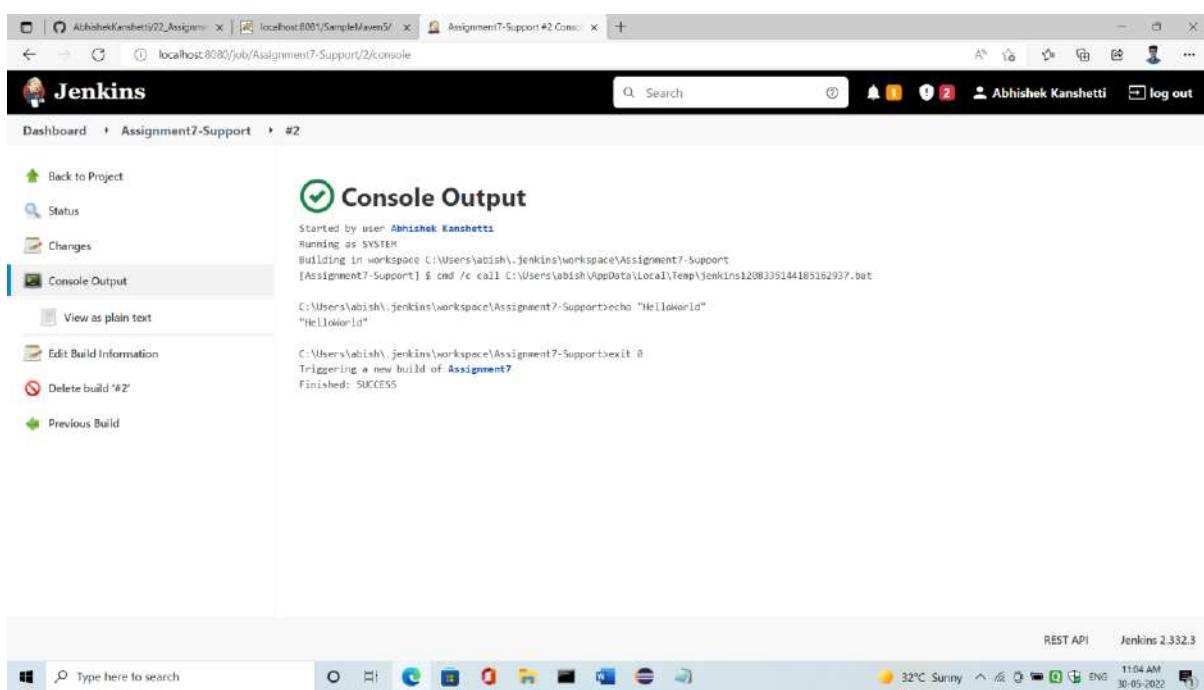
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
In the build history, we can see newly generated build as below: -



Console output as below: -



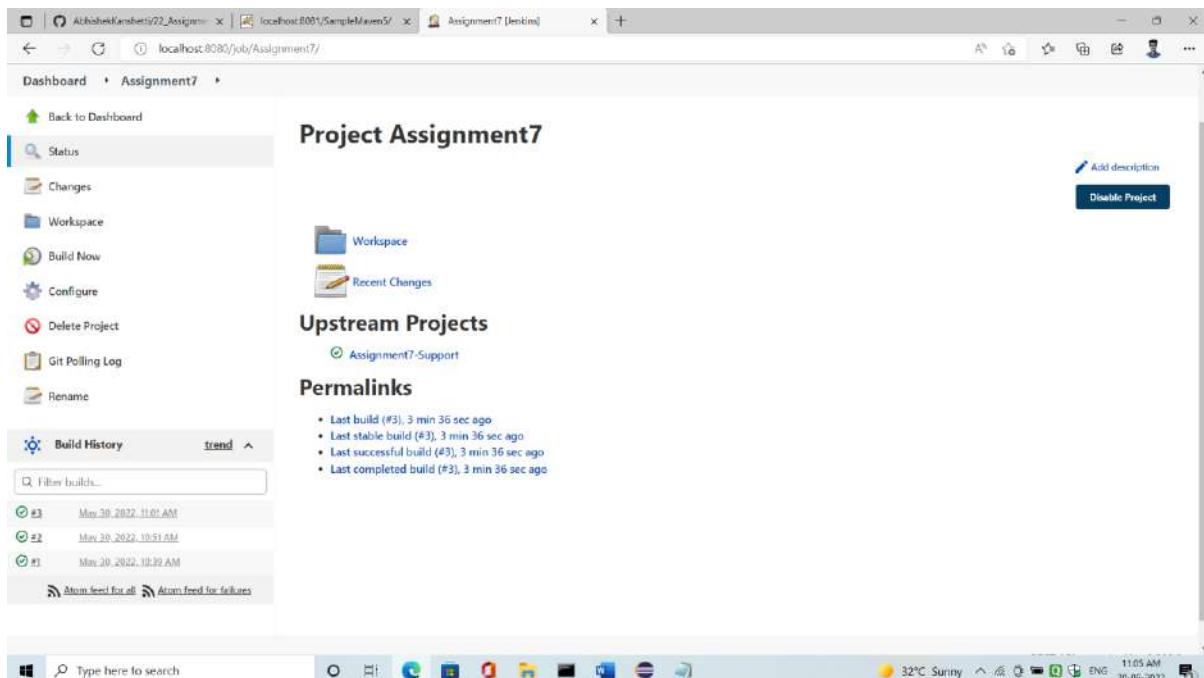
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DEVOPS

Name: Abhishek Basavraj Kanshetti

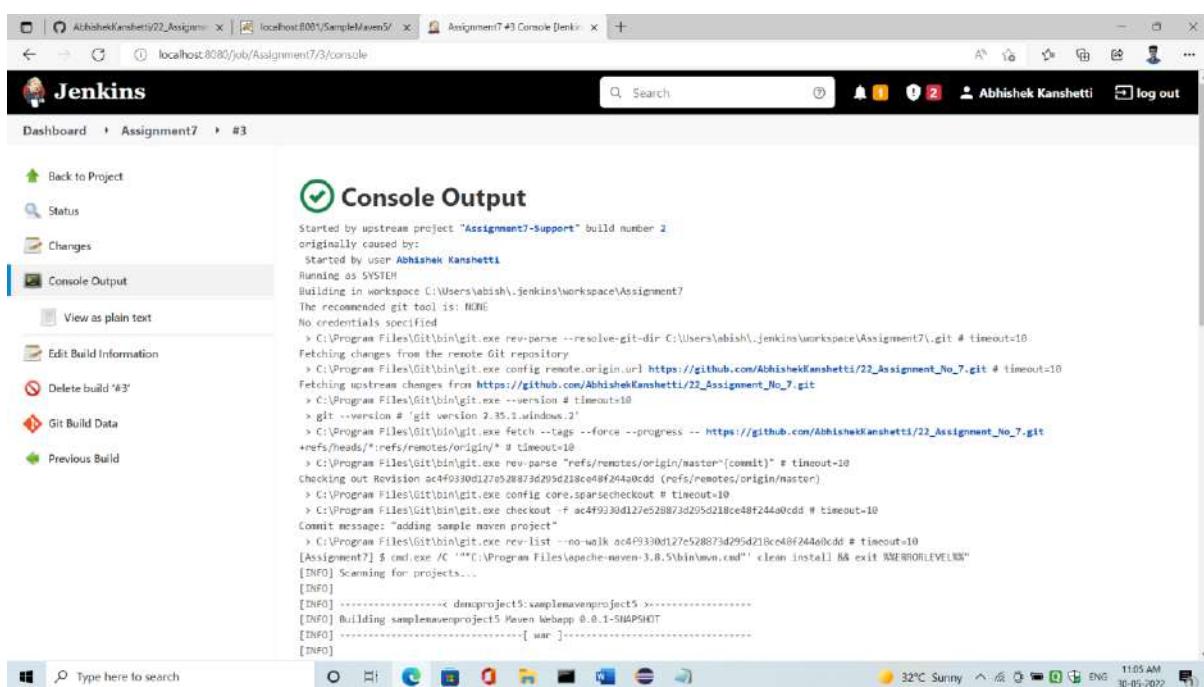
Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin
In the build history, we can see newly generated build as below: -



Console output as below: -



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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 7

Title: Use of Jenkins “Deploy to Container” Plugin and "Build Pipeline" Plugin



```
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ samplemavenproject5 ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:3.2.2:war (default-war) @ samplemavenproject5 ---
[INFO] Packaging webapp
[INFO] Assembling webapp [samplemavenproject5] in [C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Users\abish\jenkins\workspace\Assignment7\src\main\webapp]
[INFO] Webapp assembled in [20 msecs]
[INFO] Building war: C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ samplemavenproject5 ---
[INFO] Installing C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war to
C:\Users\abish\.m2\repository\demoproject5\samplemavenproject5\0.0.1-SNAPSHOT\samplemavenproject5-0.0.1-SNAPSHOT.war
[INFO] Installing C:\Users\abish\jenkins\workspace\Assignment7\pom.xml to C:\Users\abish\.m2\repository\demoproject5\samplemavenproject5\0.0.1-
SNAPSHOT\samplemavenproject5-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time:  1.311 s
[INFO] Finished at: 2022-05-30T11:03:30+05:30
[INFO] -----
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war to container Tomcat 8.x Remote with
context SampleMaven5
  Redeploying [C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war]
  Undeploying [C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war]
  Deploying [C:\Users\abish\jenkins\workspace\Assignment7\target\samplemavenproject5.war]
Finished: SUCCESS
```

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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Aim:

Build a Docker image and push it to Docker Hub.

Problem statement:

Build a Docker image and push it to Docker Hub. Pull it on another system and Run image as a container.

Submit pdf file with all steps and screenshots.

Output Screenshots:

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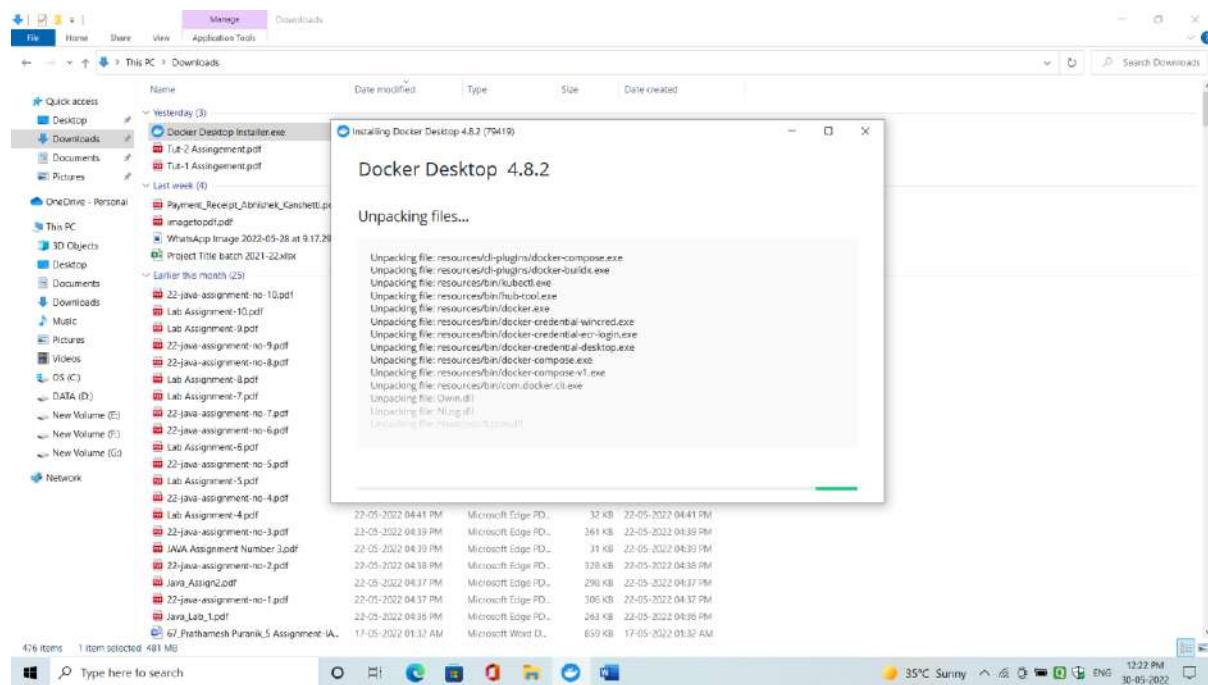
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

First We will install Docker as follow: -



After that we will restart our computer and click on accept agreement: -



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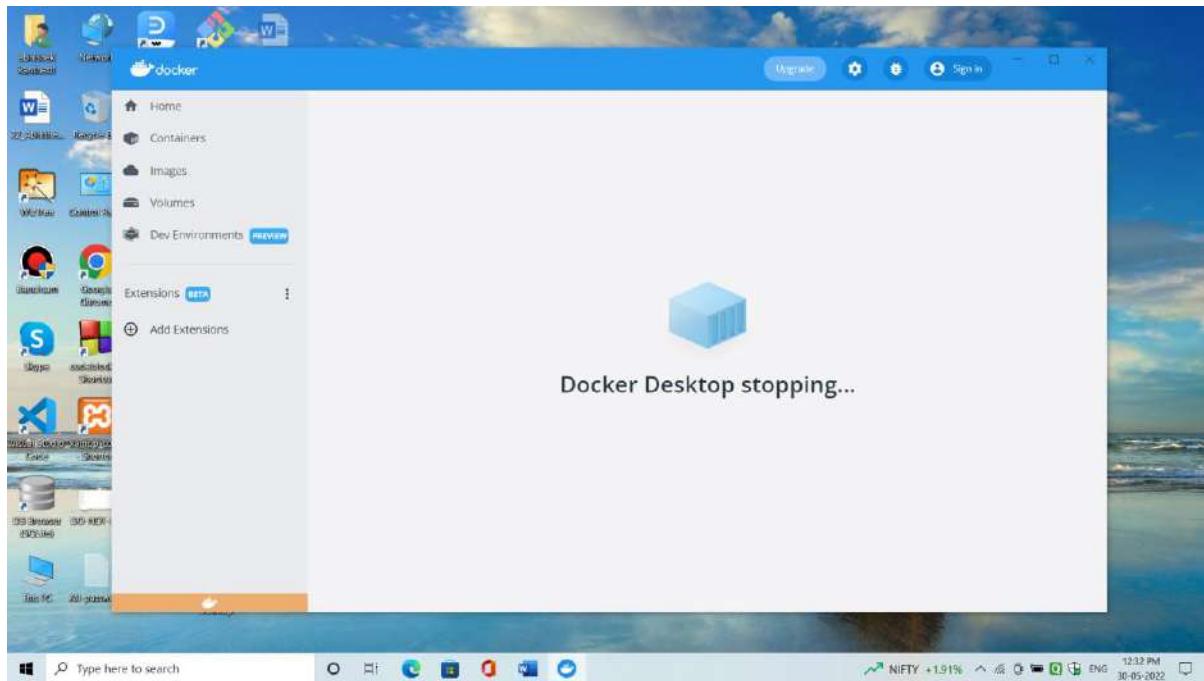
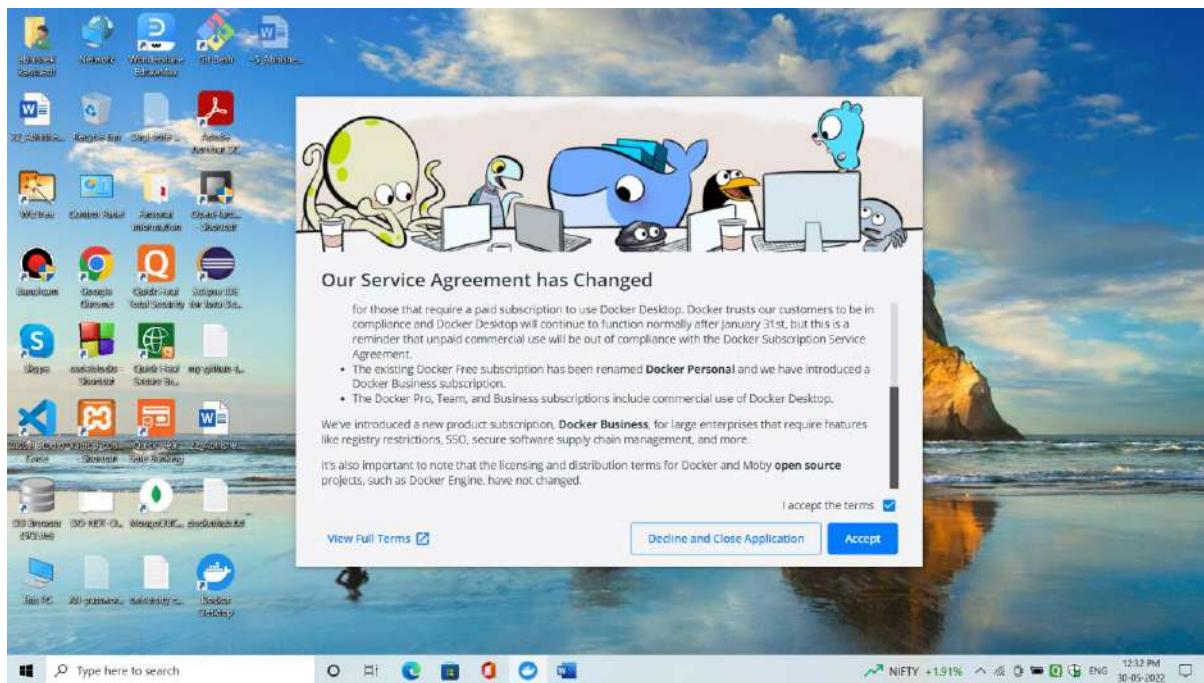
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Then Click on Accept Button:-



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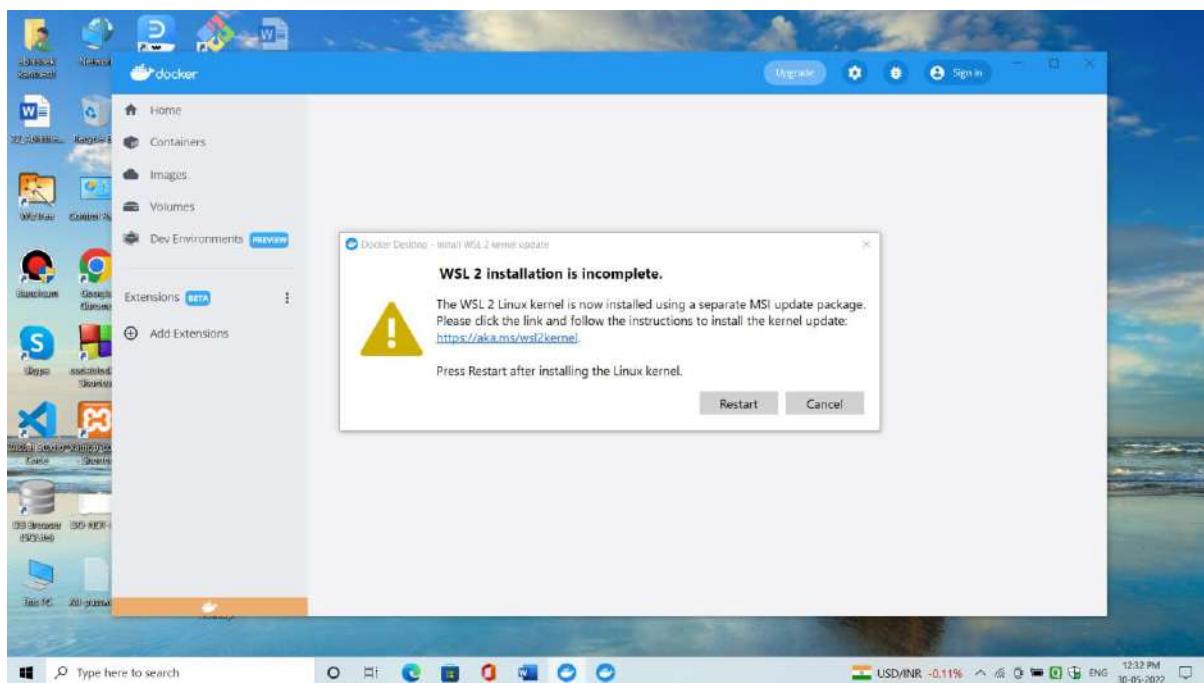
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Now it will show WSL2 installation is incomplete as below: -



We will go to link and download that file: -

Step 4 - Download the Linux kernel update package

1. Download the latest package:

- WSL2 Linux kernel update package for x64 machines [\(link\)](#)

Note

If you're using an ARM64 machine, please download the ARM64 package [\(link\)](#) instead. If you're not sure what kind of machine you have, open Command Prompt or PowerShell and enter: `systeminfo | find "System Type"`. **Caveat:** On non-English Windows versions, you might have to modify the search text, translating the "System Type" string. You may also need to escape the quotations for the find command. For example, in German `systeminfo | find ""Systemtyp""`.

2. Run the update package downloaded in the previous step. (Double-click to run – you will be prompted for elevated permissions, select 'yes' to approve this installation.)

Once the installation is complete, move on to the next step - setting WSL 2 as your default version when installing new Linux distributions. (Skip this step if you want your new Linux installs to be set to WSL 1.)

Note

For more information, read the article [changes to updating the WSL2 Linux kernel](#), available on the [Windows Command Line Blog](#).

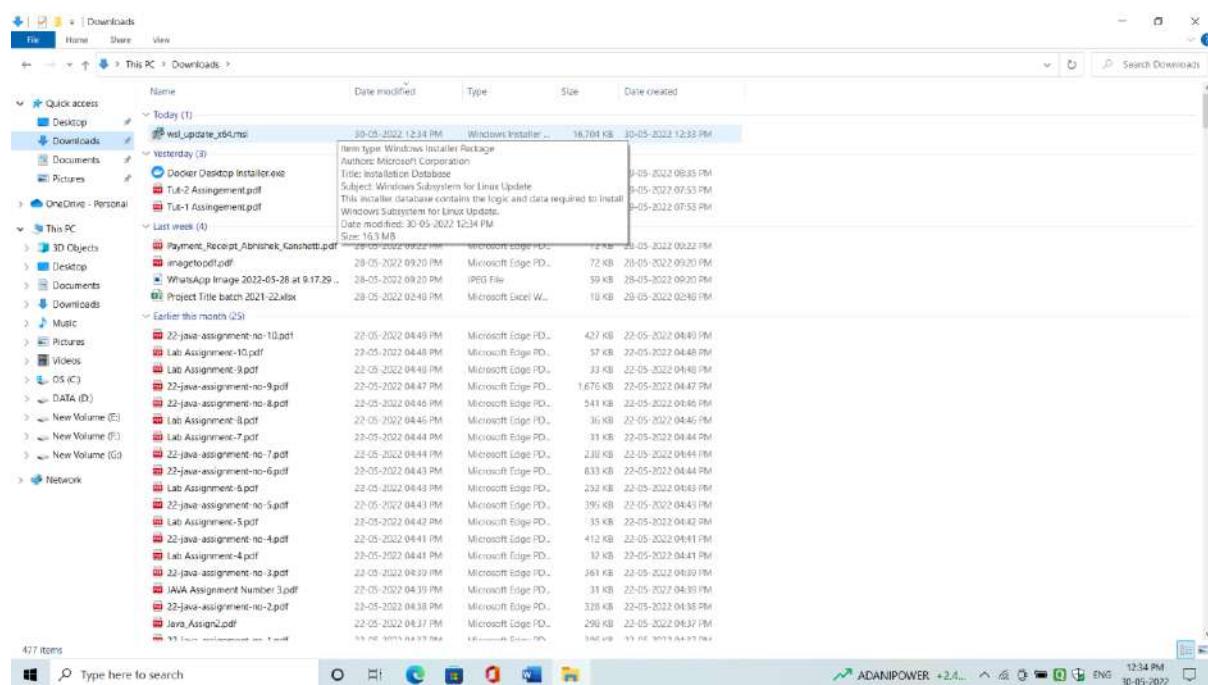
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.
Downloaded WSL2 file as follow: -



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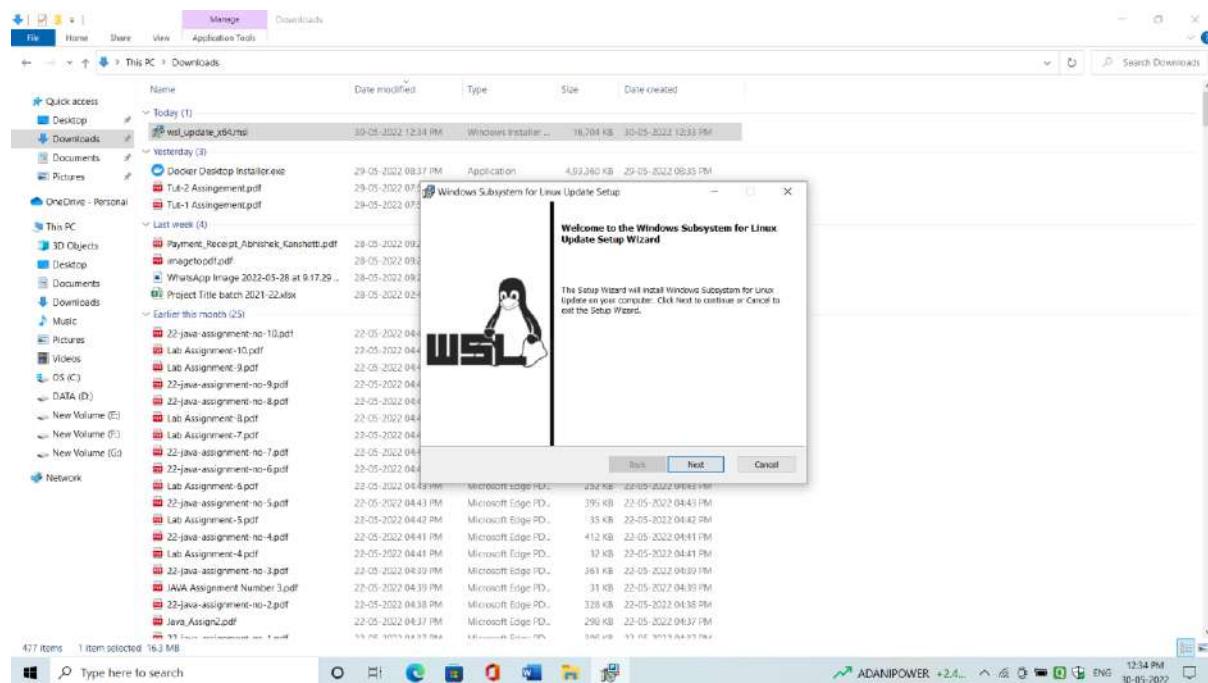
Name: Abhishek Basavraj Kanshetti

Roll No: 22

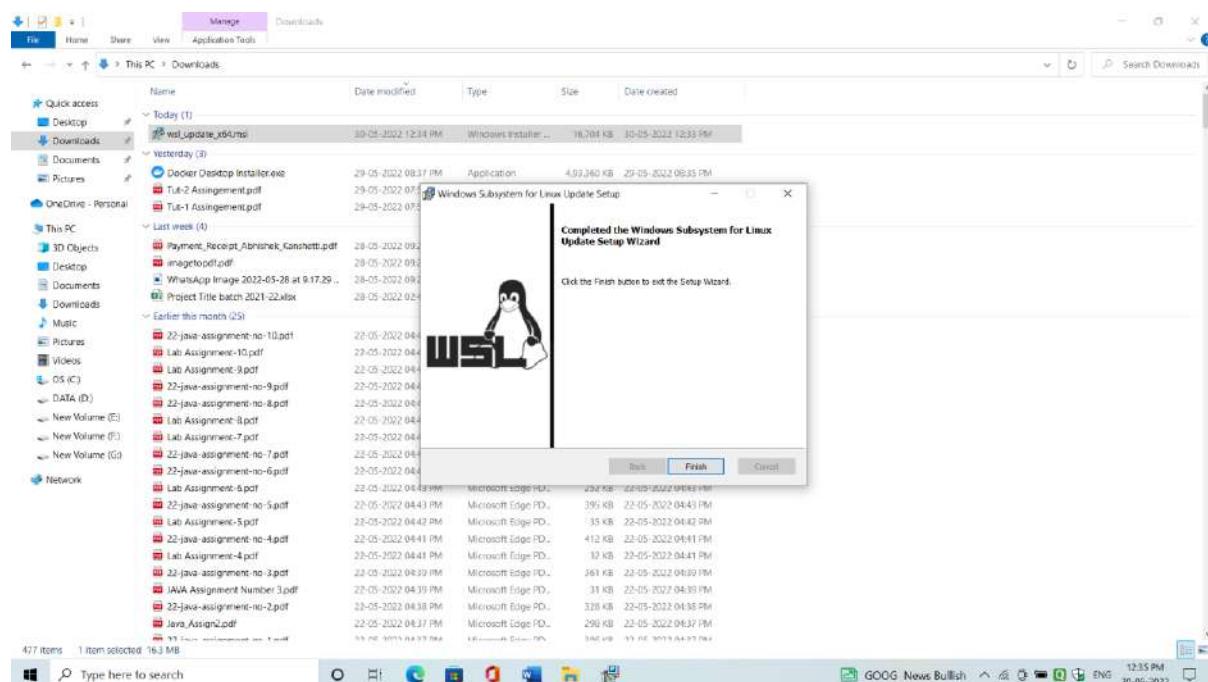
ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Now we will install that WSL2 file: -



Successfully installed as follow and then we will restart our computer: -



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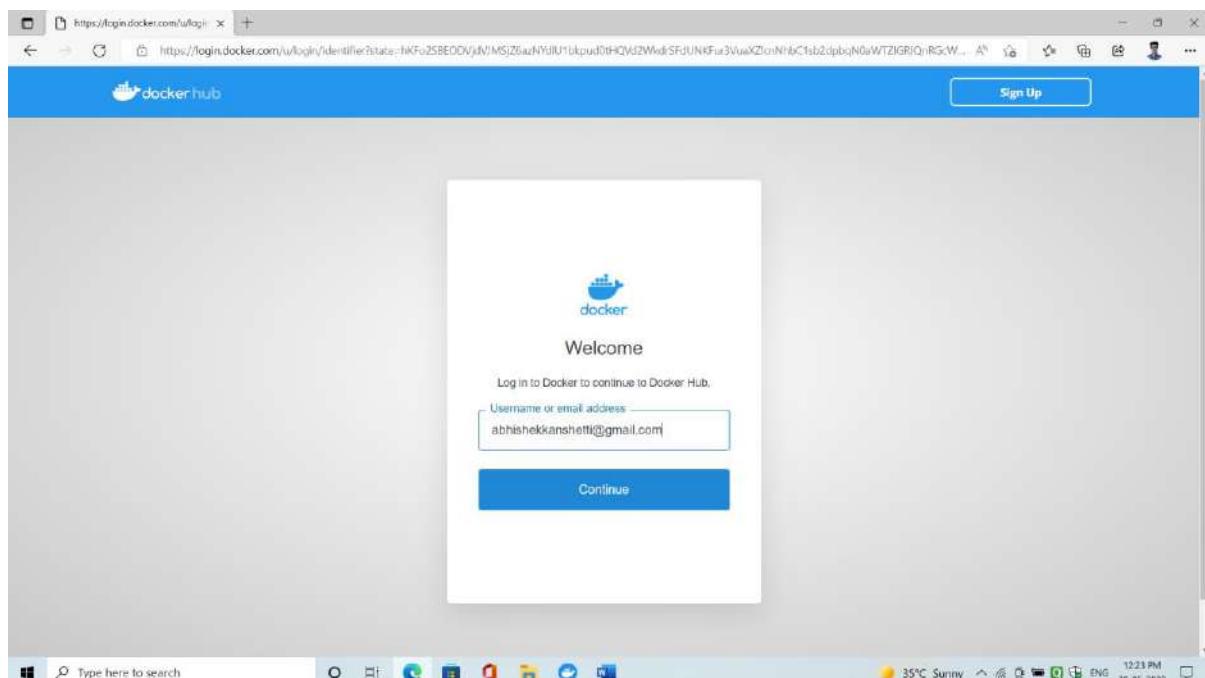
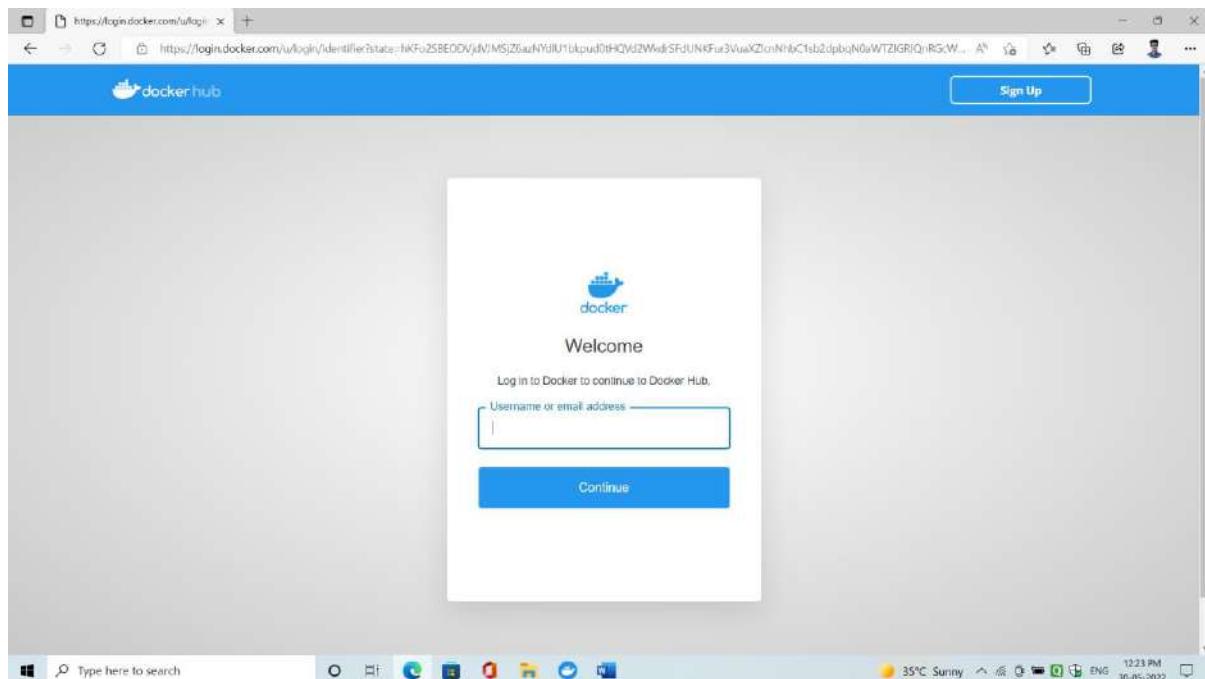
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Then we will create account on Docker and Sign In to our Account as below:-



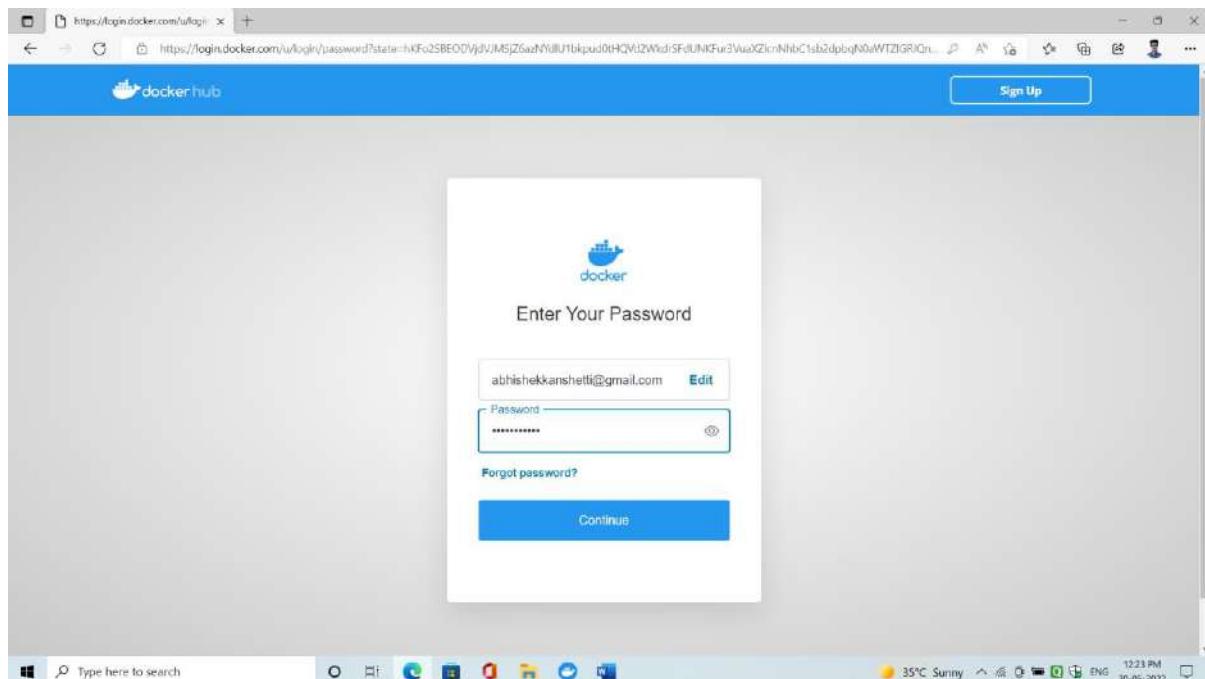
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DEVOPS**

Name: Abhishek Basavraj Kanshetti

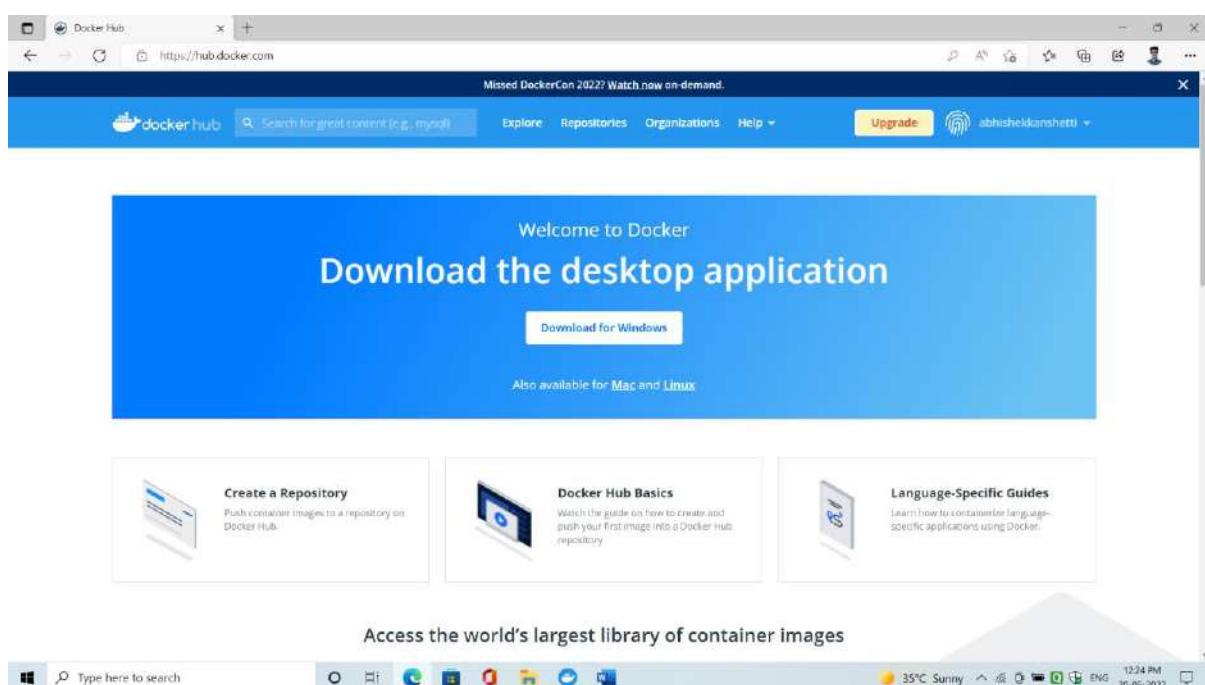
Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.



Signed In to Docker Account as below: -



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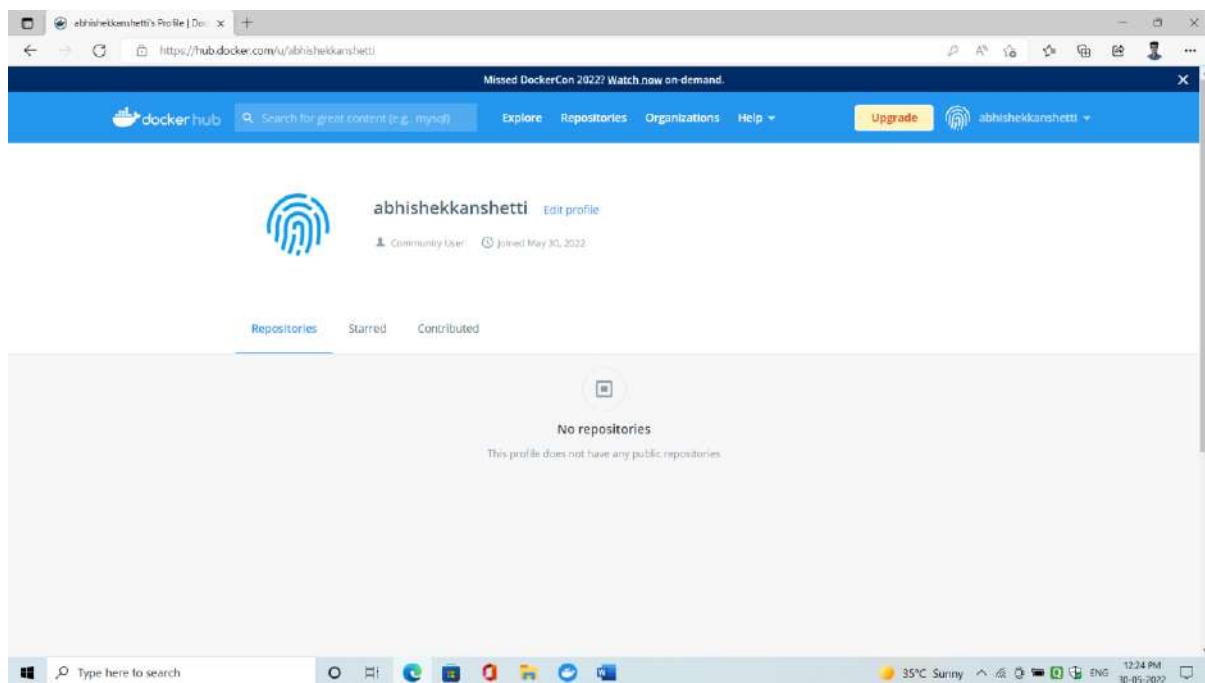
Name: Abhishek Basavraj Kanshetti

Roll No: 22

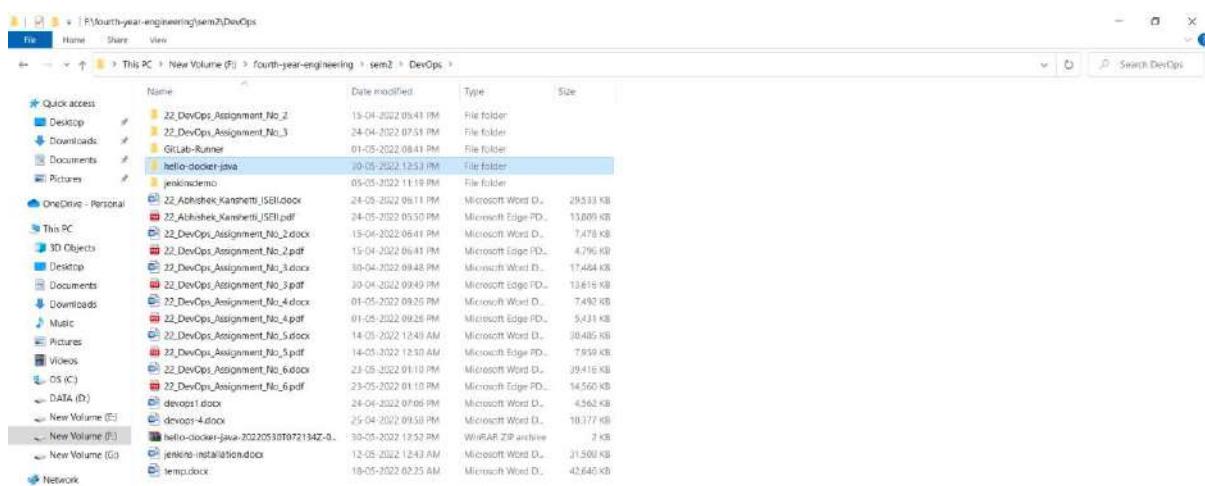
ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

No Repositories are currently present in docker: -



Then we will create folder named “hello-docker-java”: -



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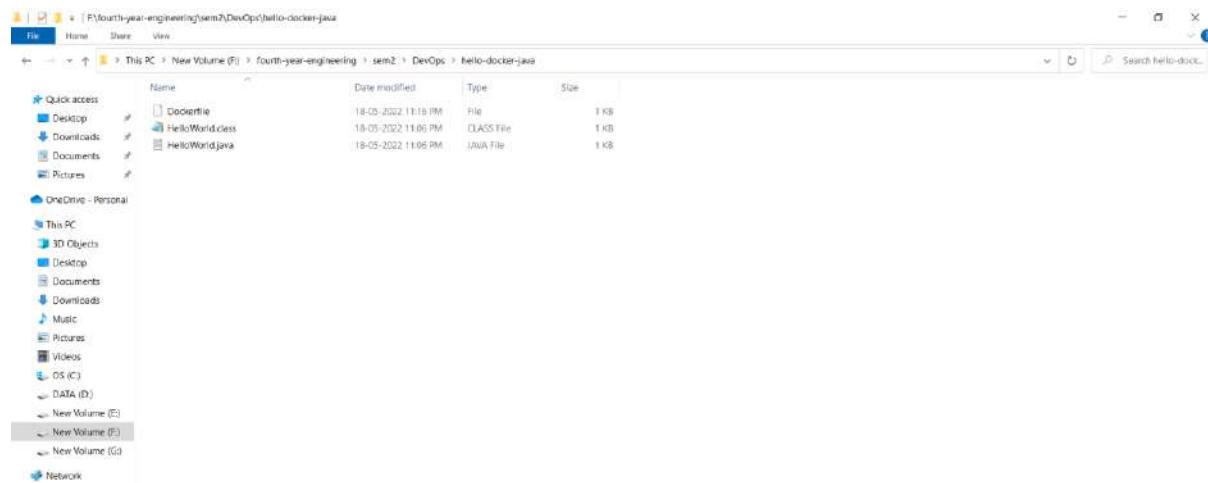
Name: Abhishek Basavraj Kanshetti

Roll No: 22

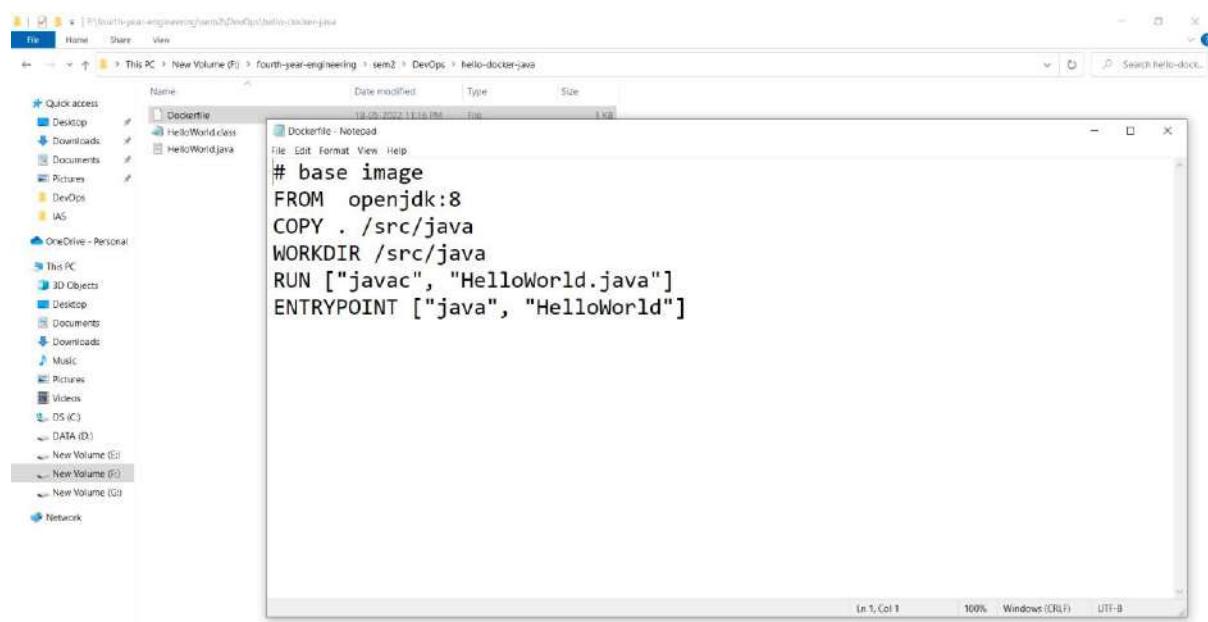
ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

In that folder, we will create two files as below and third file will be getting after running the java file: -



“Dockerfile” as below: -



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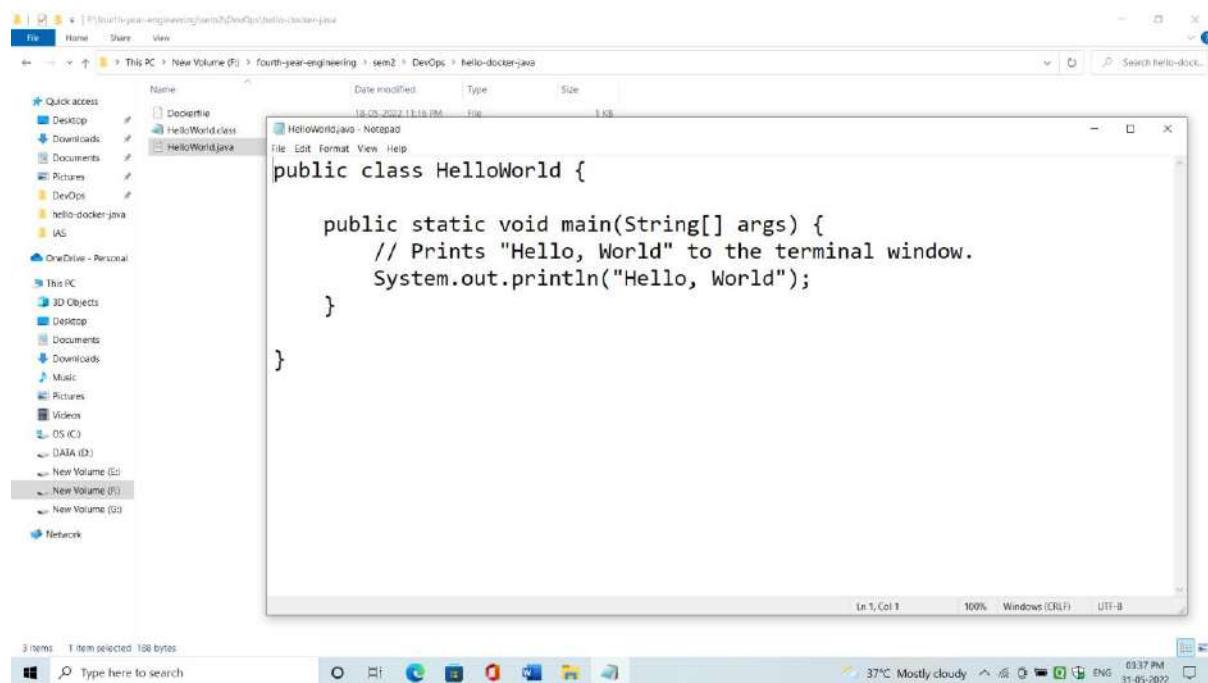
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

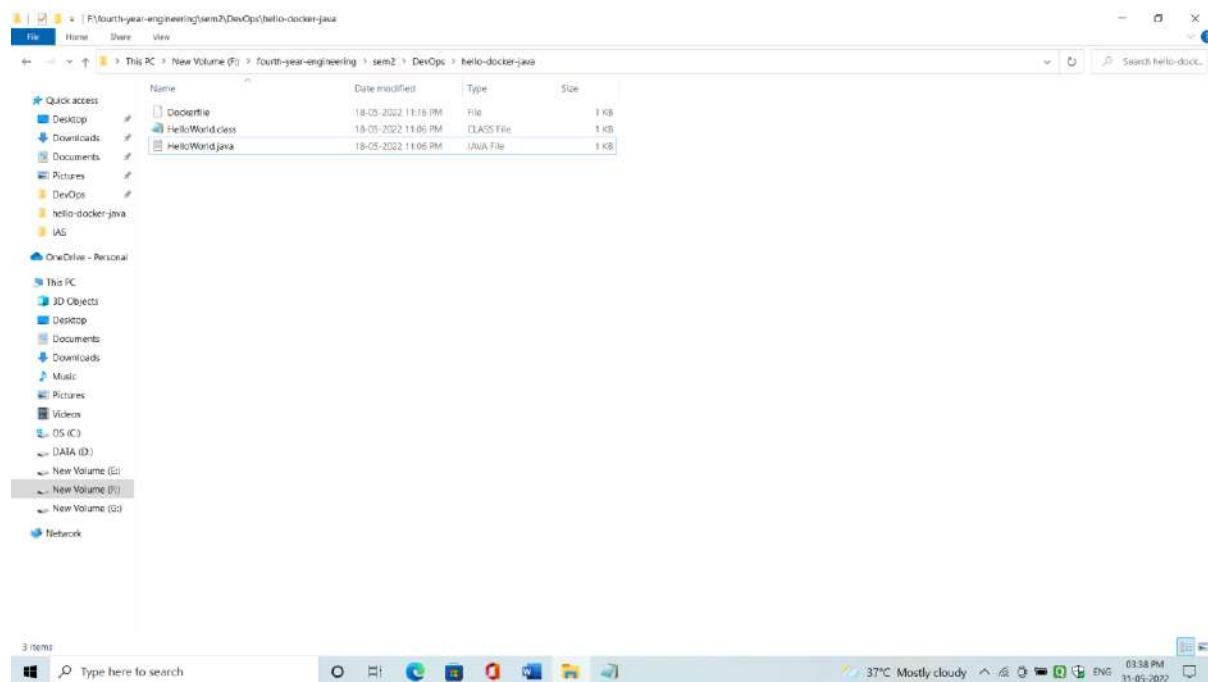
Title: Build a Docker image and push it to Docker Hub.

“HelloWorld.java” file as below: -



```
public class HelloWorld {  
    public static void main(String[] args) {  
        // Prints "Hello, World" to the terminal window.  
        System.out.println("Hello, World");  
    }  
}
```

Then we will our java file and class file will be created as follow: -



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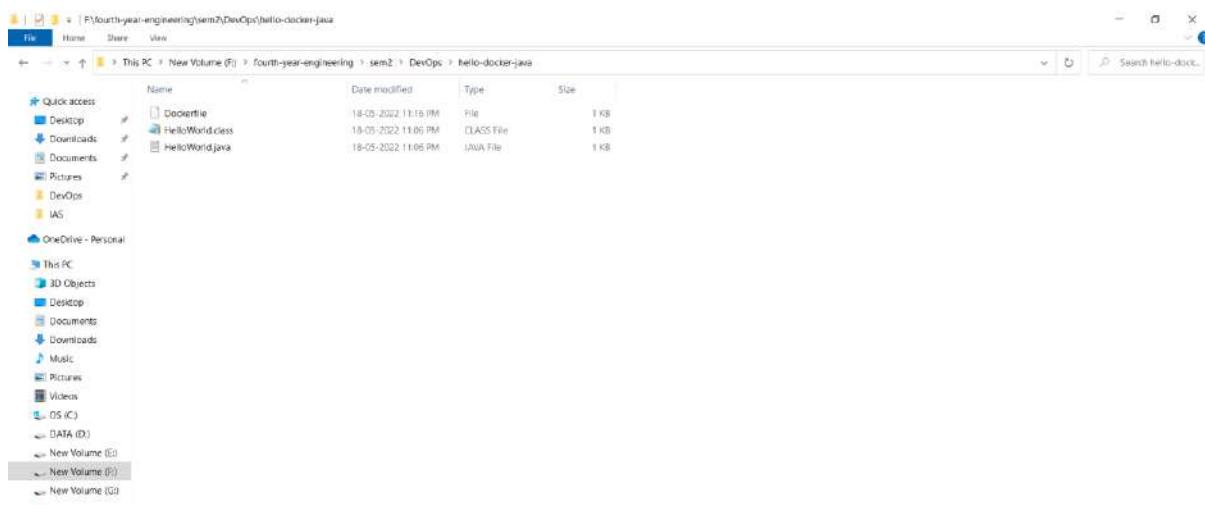
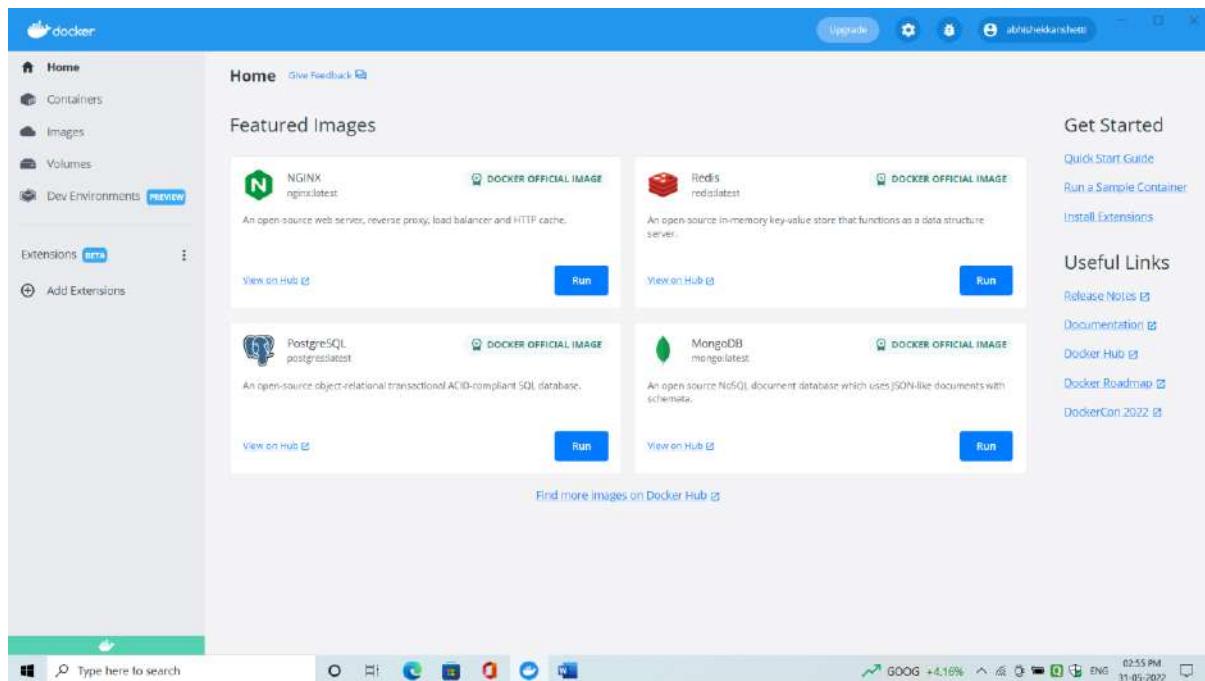
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Then we will Sign in docker as follow:-



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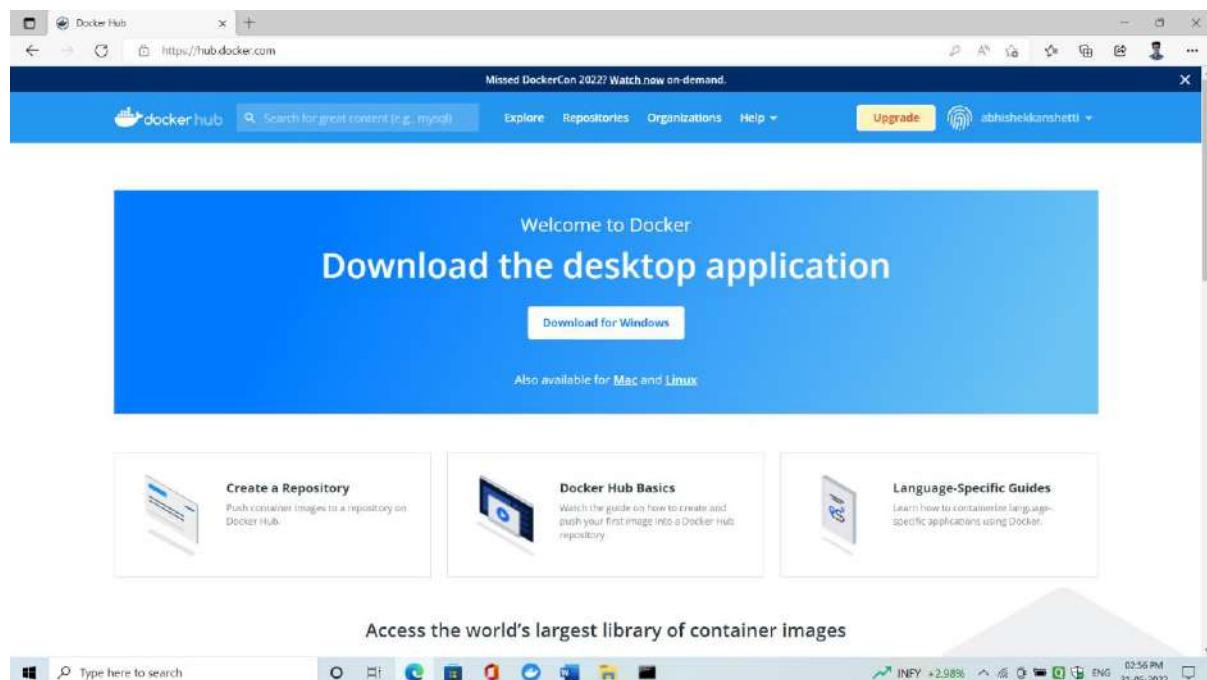
Name: Abhishek Basavraj Kanshetti

Roll No: 22

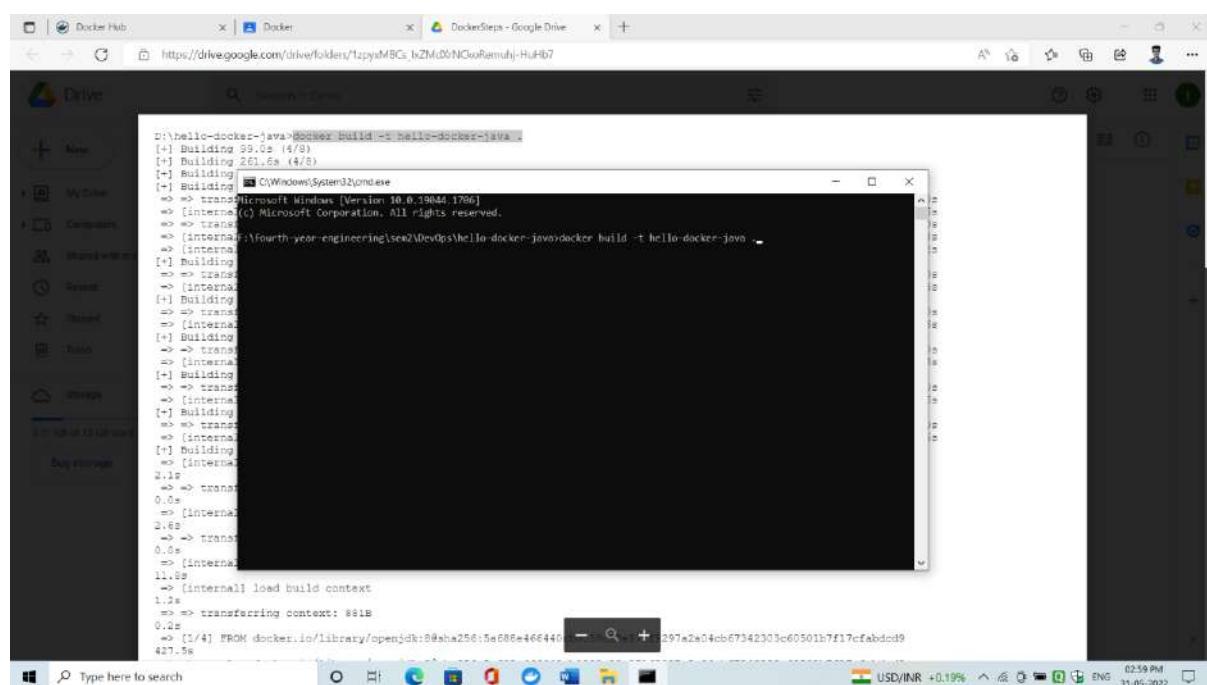
ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Signed In to Docker Hub as below: -



We will give Command as below to build our Java file:-



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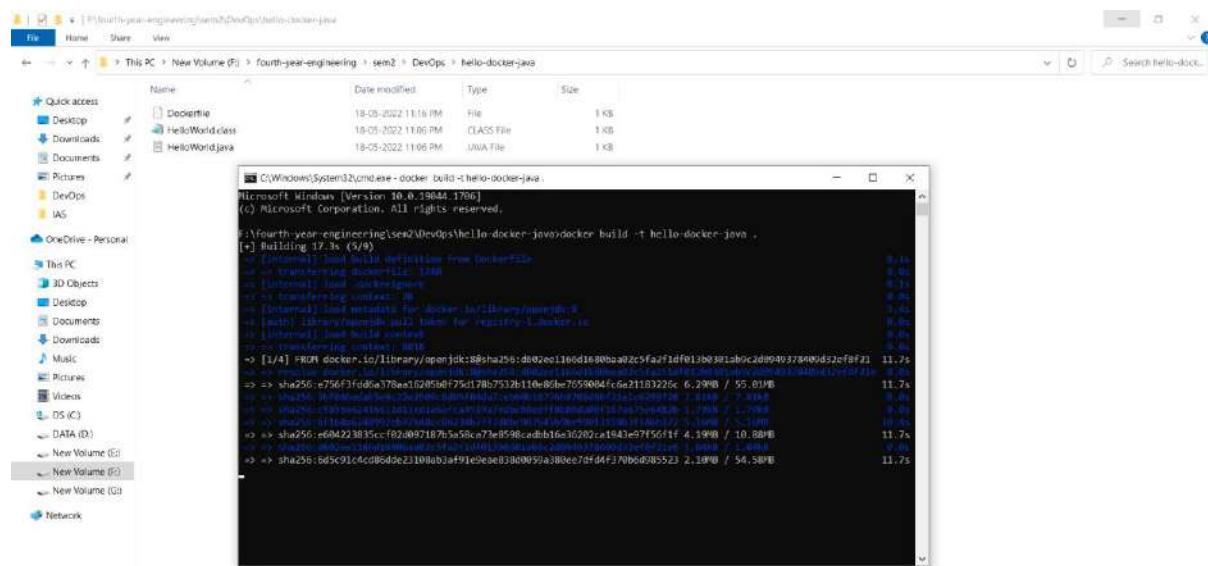
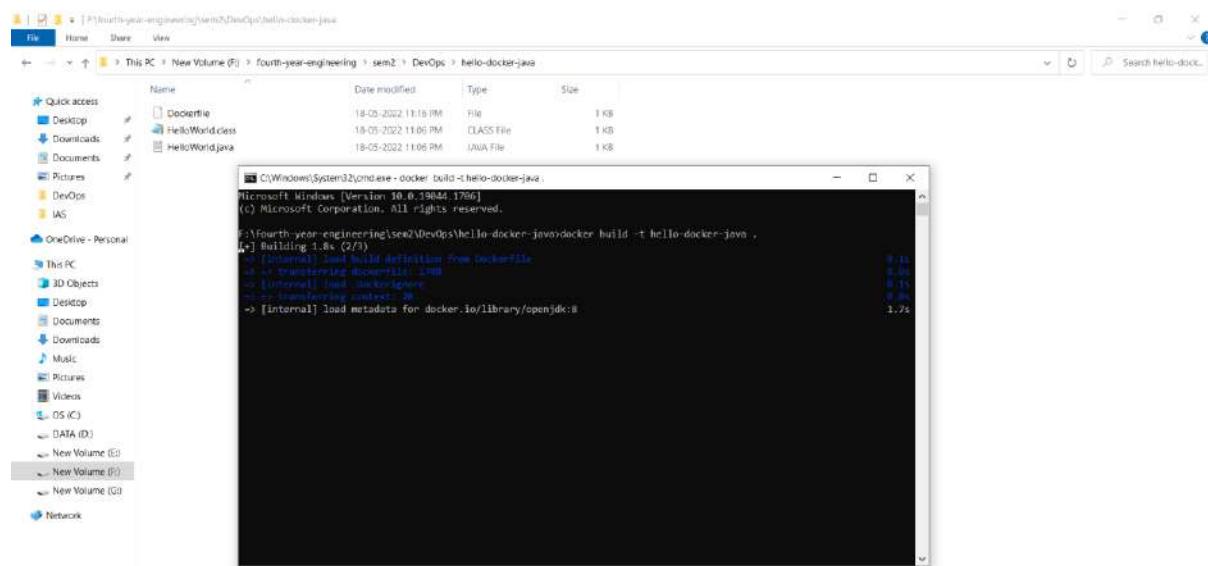
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

After Giving the command Build will be started as below:-



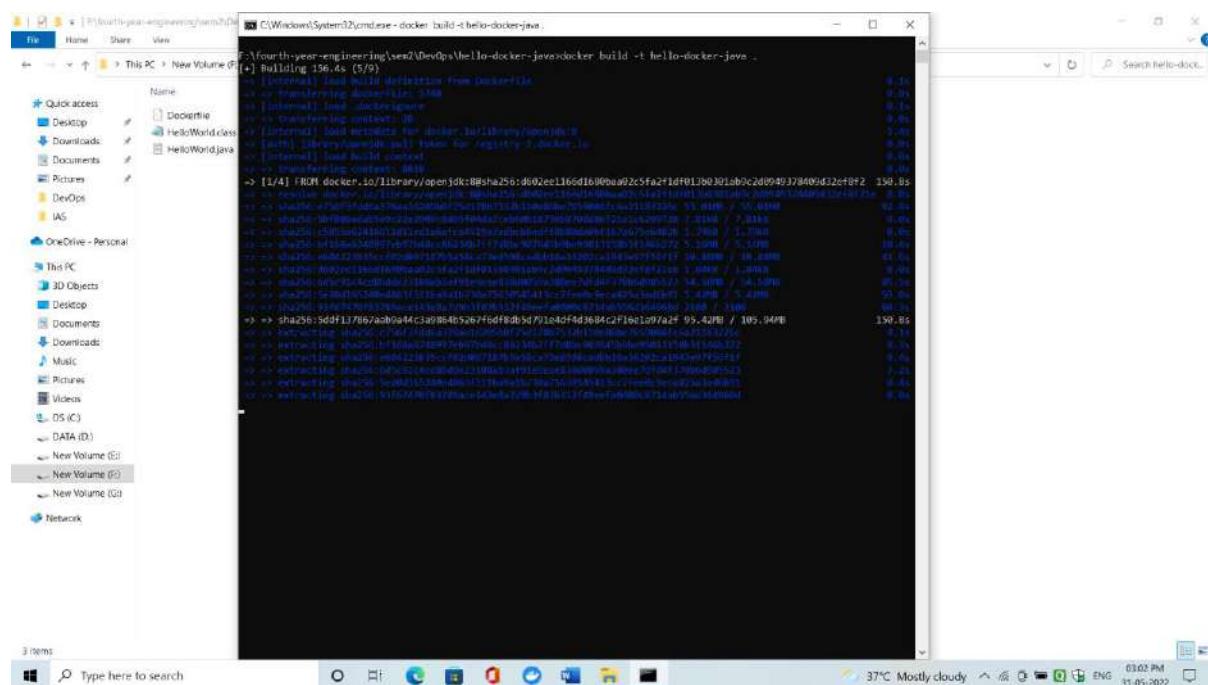
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DEVOPS**

Name: Abhishek Basavraj Kanshetti

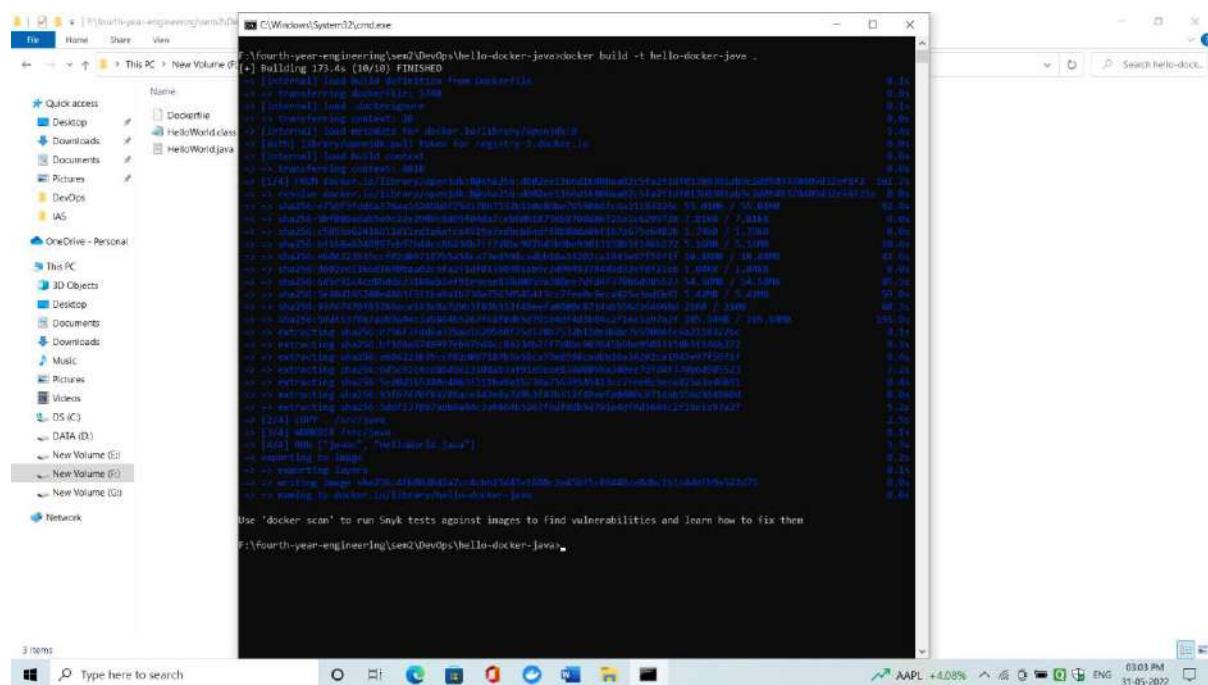
Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.



Building is finished as below: -



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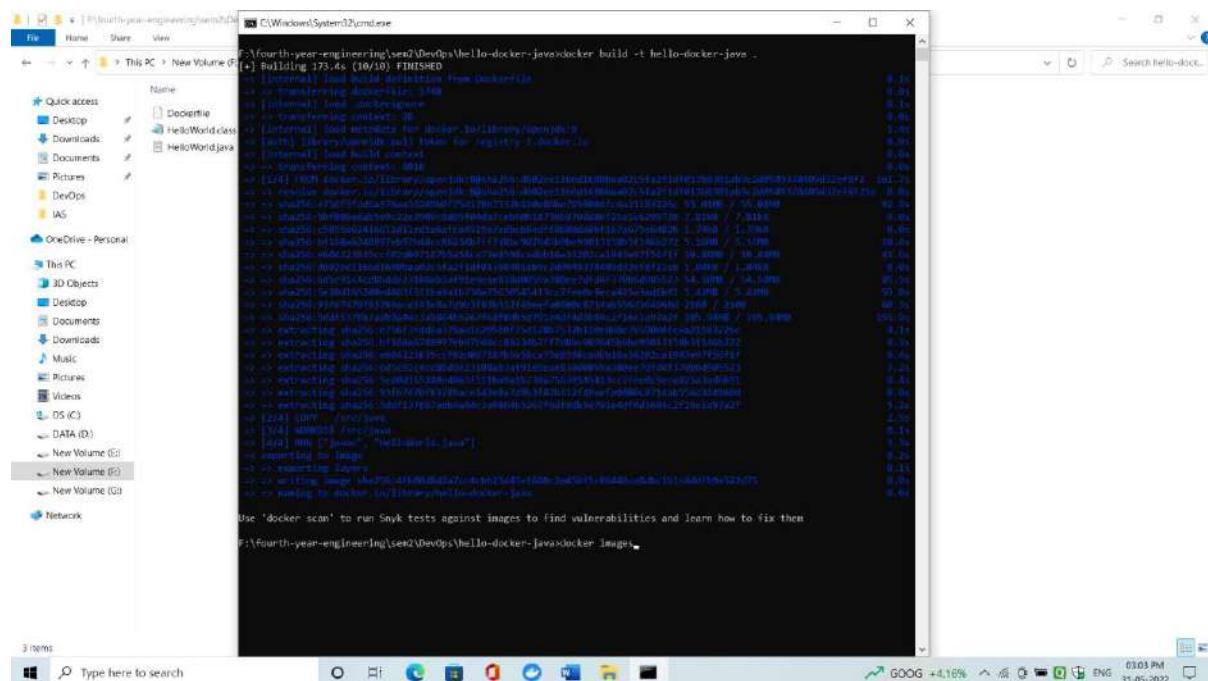
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

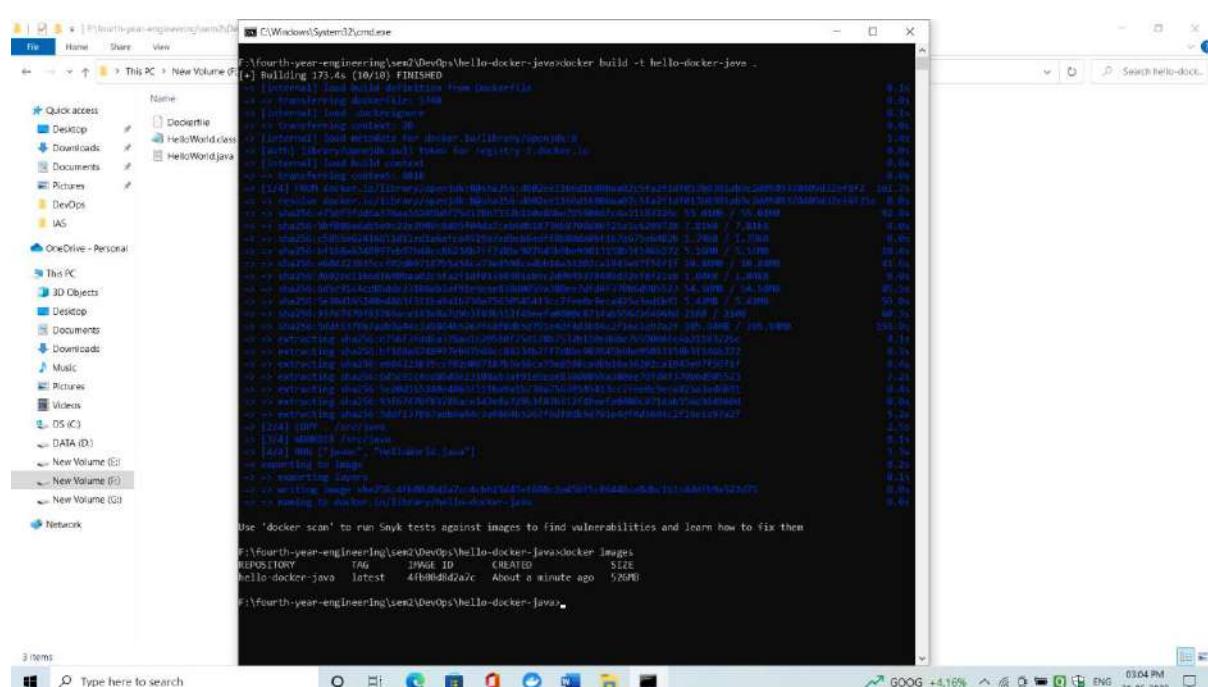
Title: Build a Docker image and push it to Docker Hub.

Then we will check now our docker image is present or not as giving following command:-



A screenshot of a Windows Command Prompt window titled 'C:\Windows\System32\cmd.exe'. The command entered is 'F:\fourth-year-engineering\sem2\DevOps\Hello-Docker-Java\docker build -t hello-docker-java .' and the output shows the build process. The output includes various Docker commands like 'Dockerfile', 'COPY', 'RUN', and 'CMD' along with their respective arguments. The build is completed successfully with the message 'F:\fourth-year-engineering\sem2\DevOps\Hello-Docker-Java\docker build -t hello-docker-java .' [10/10] FINISHED. The command prompt also displays the path F:\fourth-year-engineering\sem2\DevOps\Hello-Docker-Java\ and the current time 03:03 PM on 31-05-2022.

Here we can see Image generated as follow:-



A screenshot of a Windows Command Prompt window titled 'C:\Windows\System32\cmd.exe'. The command entered is 'F:\fourth-year-engineering\sem2\DevOps\Hello-Docker-Java\docker build -t hello-docker-java .' and the output shows the build process. The output includes various Docker commands like 'Dockerfile', 'COPY', 'RUN', and 'CMD' along with their respective arguments. The build is completed successfully with the message 'F:\fourth-year-engineering\sem2\DevOps\Hello-Docker-Java\docker build -t hello-docker-java .' [10/10] FINISHED. The command prompt also displays the path F:\fourth-year-engineering\sem2\DevOps\Hello-Docker-Java\ and the current time 03:04 PM on 31-05-2022.

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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Then we will run our docker image and will get o/p as follow:-

The screenshot shows a Windows desktop environment with a terminal window open in the foreground. The terminal window title is "C:\Windows\System32\cmd.exe". The command entered was "docker run hello-docker-java". The output of the command is displayed in the terminal window, showing the creation of a Docker image named "hello-docker-java" and its execution, which prints "Hello, World".

```
C:\Windows\System32\cmd.exe
F:\fourth-year-engineering\sen2\DevOps>docker run hello-docker-java
REPOSITORY          TAG      IMAGE ID   CREATED             SIZE
hello-docker-java   latest   4fb80d2a7c   About a minute ago   520MB

F:\fourth-year-engineering\sen2\DevOps>Hello, World

F:\fourth-year-engineering\sen2\DevOps>
```

Then we will add tag as below:-

The screenshot shows a Windows desktop environment. On the left, a File Explorer window is open, displaying the contents of the Desktop folder. The desktop path is shown as C:\Windows\System32\cmd.exe. The terminal window shows the command `docker images` output:

Name	REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
hello-docker-java	hello-docker-java	latest	4fb00d8d2a7c	About a minute ago	520MB

Below this, the command `docker run hello-docker-java` is run, resulting in the output "Hello, World". The terminal also shows the command `docker tag hello-docker-java whishikkanshetti/hello-docker-java` being entered.

At the bottom of the screen, the taskbar displays several pinned icons: File Explorer, Home, Share, View, Start, Task View, File, Home, Share, View, and a search bar. The system tray shows the date and time as 03:06 PM 21-05-2022.

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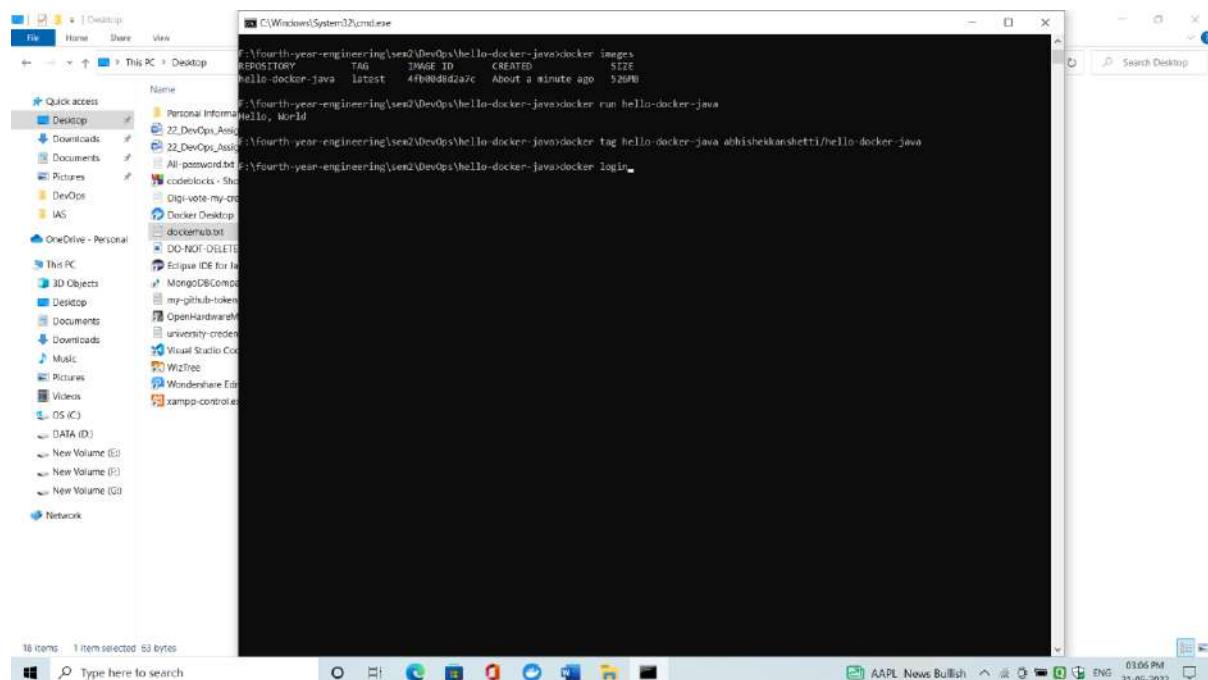
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Then we will login to Docker Hub account as below: -



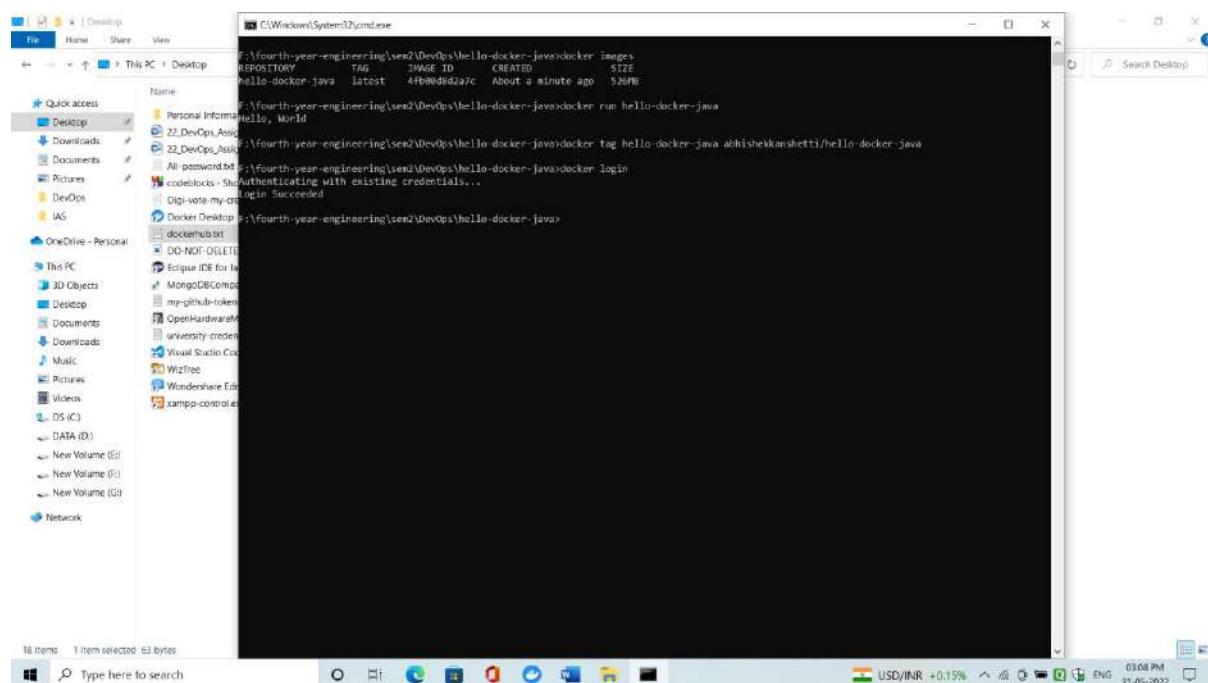
```
C:\Windows\System32\cmd.exe
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-docker-java latest 4fb0dd2a7c About a minute ago 526MB

F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker run hello-docker-java
Hello, World

F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker tag hello-docker-java abhishekkanshetti/hello-docker-java
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker login
Authenticating with existing credentials...
Login Succeeded

18 items 1 item selected 63 bytes
Type here to search AAPL News Bullish ENG 03:08 PM 31-05-2022
```

Login is Succeeded as below: -



```
C:\Windows\System32\cmd.exe
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-docker-java latest 4fb0dd2a7c About a minute ago 526MB

F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker run hello-docker-java
Hello, World

F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker tag hello-docker-java abhishekkanshetti/hello-docker-java
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker login
Authenticating with existing credentials...
Login Succeeded

18 items 1 item selected 63 bytes
Type here to search USD/INR +0.15% AAPL News Bullish ENG 03:08 PM 31-05-2022
```

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DEVOPS

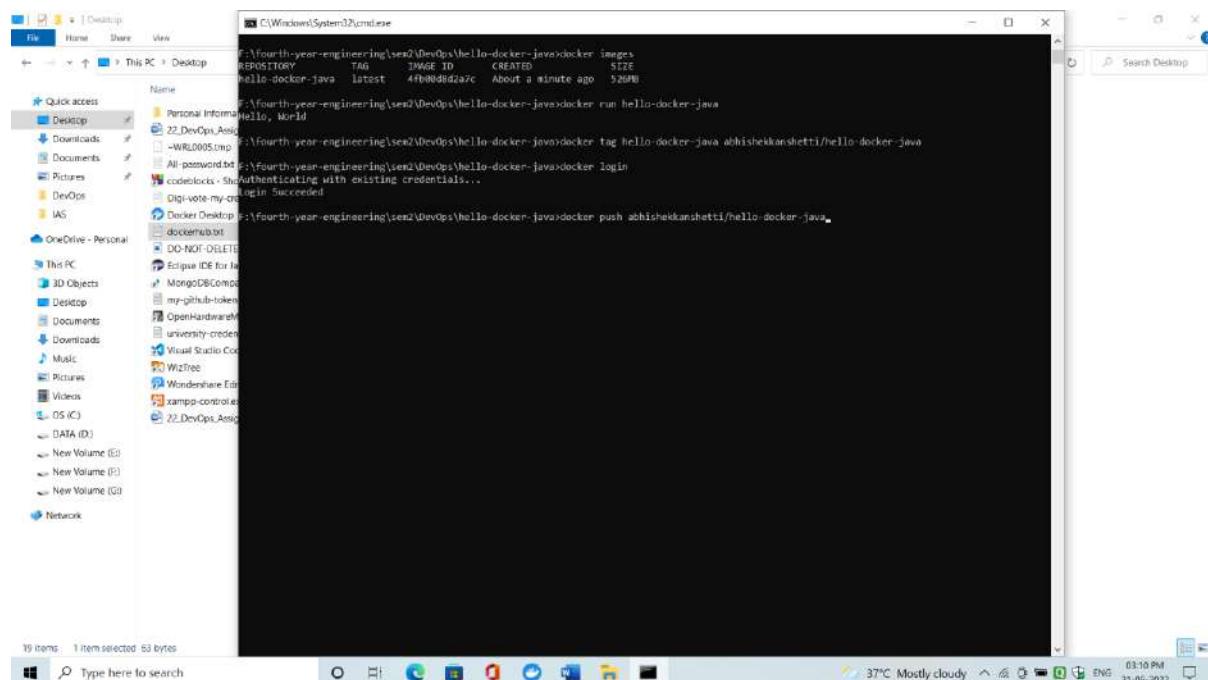
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Then we will push our Docker Image as follow: -



```
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY          TAG      IMAGE ID            CREATED             SIZE
hello-docker-java  latest   4fb0dd2a7c        About a minute ago   5.29MB

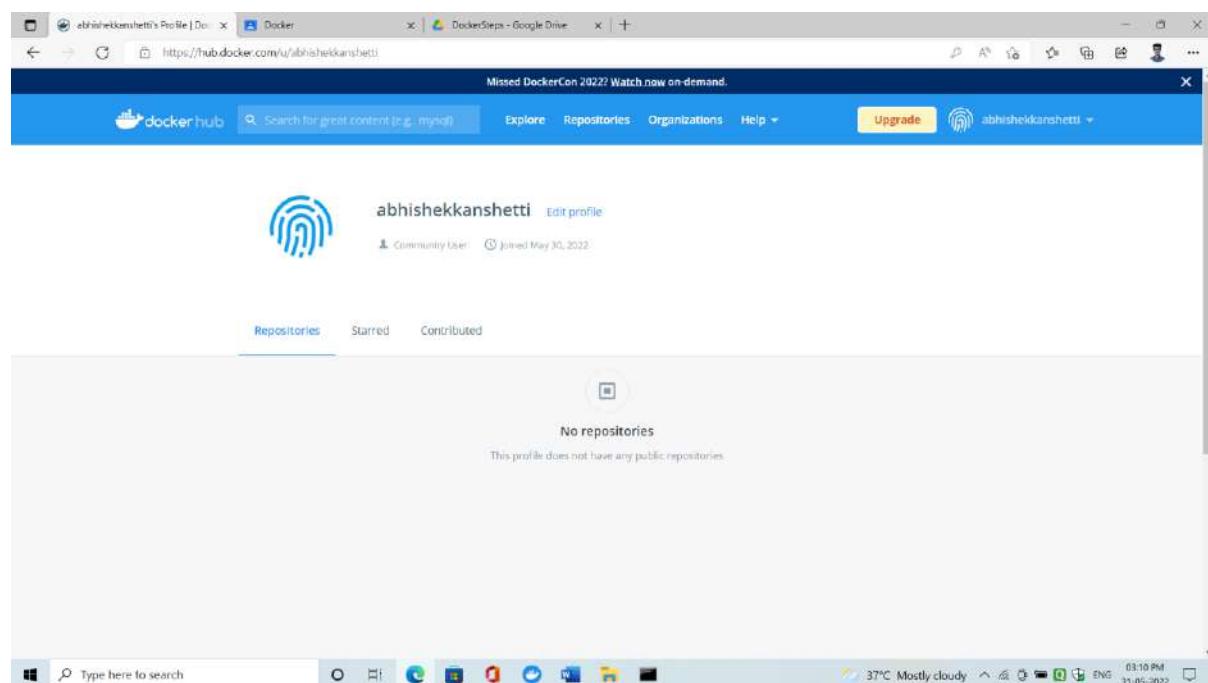
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker run hello-docker-java
Hello, World!

F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker tag hello-docker-java abhishekkanshetti/hello-docker-java
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker login
Authenticating with existing credentials...
Login Succeeded

F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker push abhishekkanshetti/hello-docker-java
The push refers to a repository [abhishekkanshetti/hello-docker-java:latest]
4fb0dd2a7c: Pushed
5.29MB: Pushed

19 items: 1 item selected 53 bytes
```

Currently no Repository is present as below: -



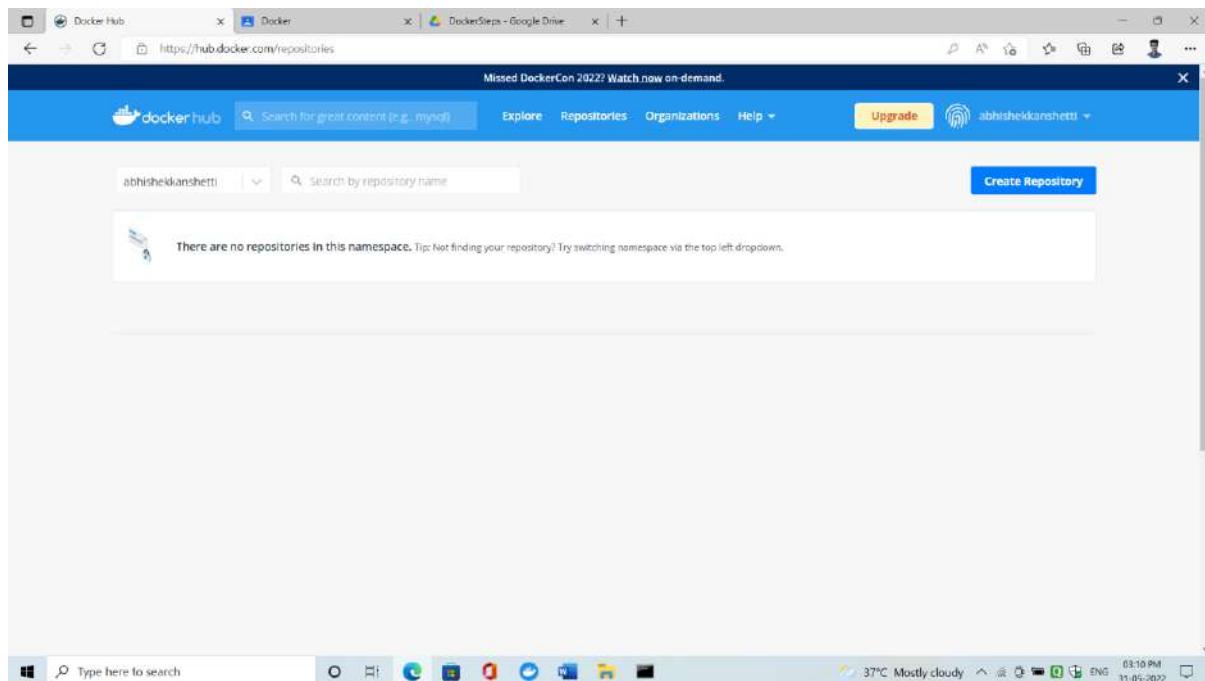
**WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
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2021-22 SEMESTER-II
DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.



Now Pushed Image as follow: -

```
C:\Windows\system32\cmd.exe - docker push abhishekanshetti/hello-docker-java

F:\Fourth-year-engineering\sem2\DevOps\hello-docker-java>docker images
REPOSITORY          TAG      IMAGE ID      CREATED             SIZE
Hello_docker-java   latest   4fb008d82a2c  About a minute ago  526MB

F:\Fourth-year-engineering\sem2\DevOps\hello-docker-java>docker run hello-docker-java
Hello, World

F:\Fourth-year-engineering\sem2\DevOps\hello-docker-java>docker tag hello-docker-java abhishekanshetti/hello-docker-java
F:\Fourth-year-engineering\sem2\DevOps\hello-docker-java>docker login
Authenticating with existing credentials...
Login Succeeded

F:\Fourth-year-engineering\sem2\DevOps\hello-docker-java>docker push abhishekanshetti/hello-docker-java
The push refers to a repository [docker.io/abhishekanshetti/hello-docker-java]
  4fb008d82a2c: Pushed
  latest: digest: 4fb008d82a2c at timestamp: 2021-05-21T10:48:48Z size: 1.63kB
  pushing [=====>] 1.63kB

F:\Fourth-year-engineering\sem2\DevOps\hello-docker-java>espresso IDE for Java F:\Java\filezilla: Pushing [=====>] 1.63kB
  pushing [=====>] 1.63kB

F:\Fourth-year-engineering\sem2\DevOps\hello-docker-java>MongoDBCompass Helloblockchain: Pushing [=====>] 5.612kB
  my-github-token:75d2d4ae2c3: Preparing
  OpenHardwareV1:7e10ad8d4: Waiting
  university-credenet:fedc9dc9: Waiting
  Visual Studio Code:7d4af2bd8b8: Waiting
  WizTree: A7593c345cze: Waiting
  Wondershare Ear:7d4af2bd8b8: Waiting
  xampa-control: 22_DevOps.Assig: Waiting

F:\Fourth-year-engineering\sem2\DevOps\hello-docker-java>
```

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2021-22 SEMESTER-II
DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

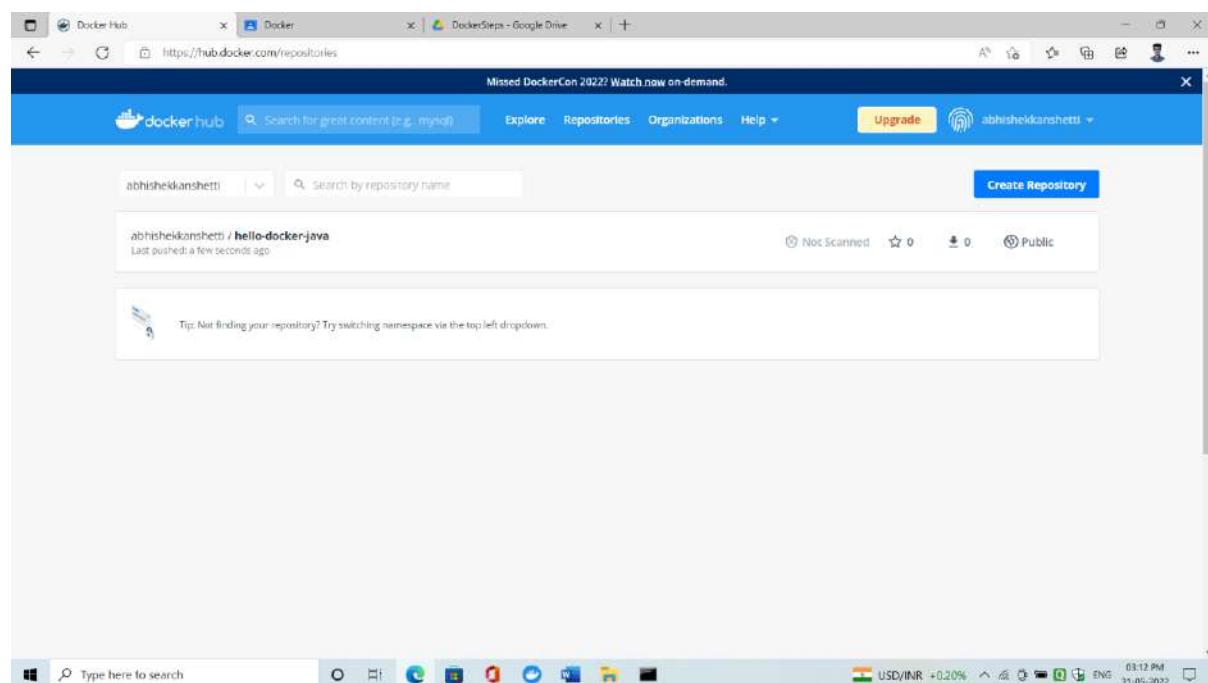
ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Pushed Docker Image as follow: -

```
C:\Windows\System32\cmd.exe
File Home Share View
File This PC Desktop
Name
Personal Information Hello, World
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-docker-java latest 4fb0dd2d2c About a minute ago 529B
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker run hello-docker-java
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker tag hello-docker-java abhishekkanshetti/hello-docker-java
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker login
Authenticating with existing credentials...
Login Succeeded
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker push abhishekkanshetti/hello-docker-java
The push refers to repository [docker.io/abhishekkanshetti/hello-docker-java]
4fb0dd2d2c: Pushed
Digest: sha256:cet30d23a09b39511dbc9fe47d97cb5594228bf0a276a10fb6c28d0ac5993f size: 2415
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>
22.DevOps.Assign
```

Now here we can see our pushed image as below: -



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DEVOPS**

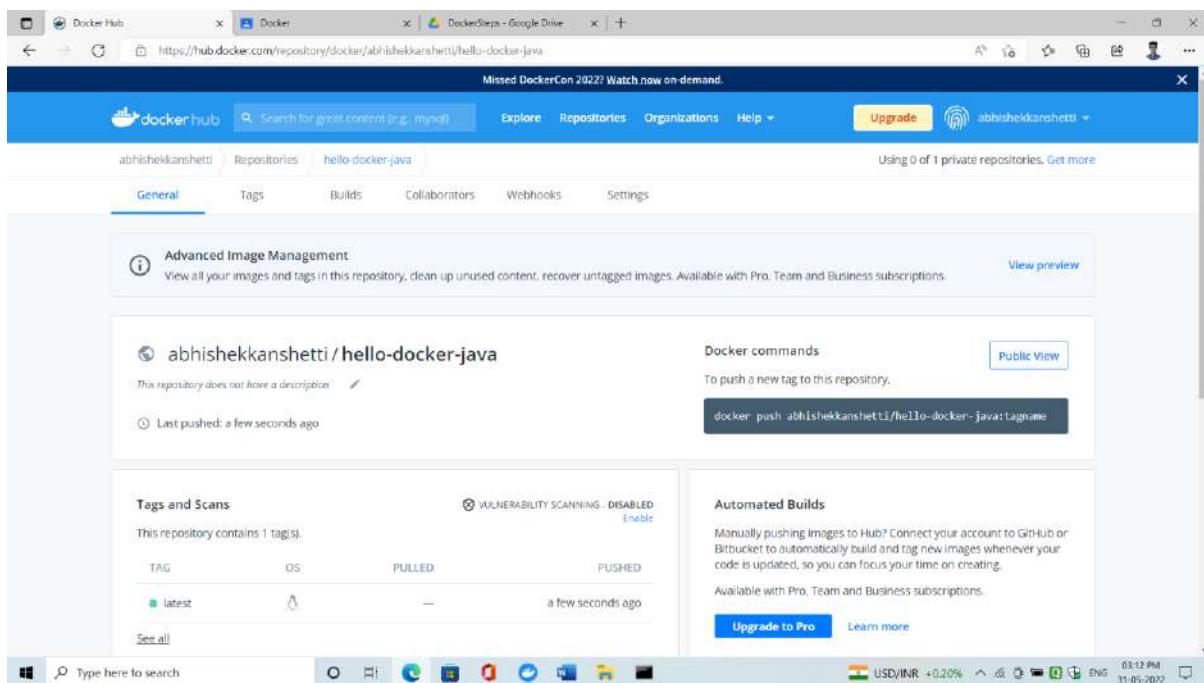
Name: Abhishek Basavraj Kanshetti

Roll No: 22

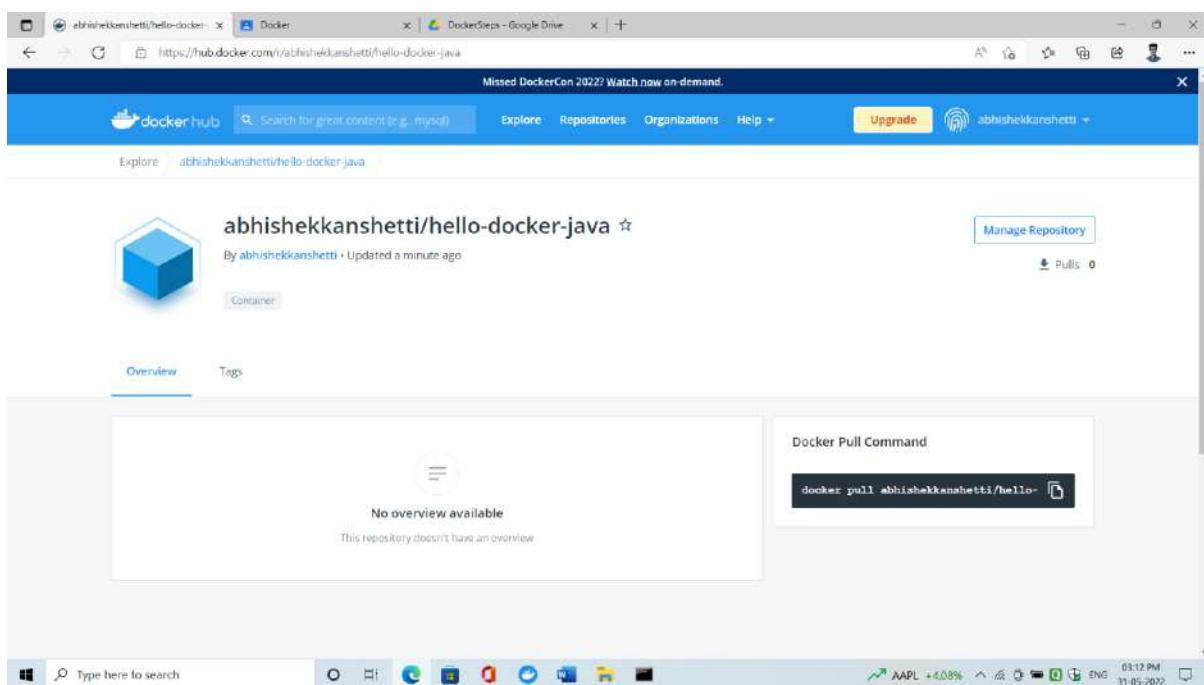
ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Pushed Docker Image as below: -



Our Public URL of docker image is as below: -



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DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

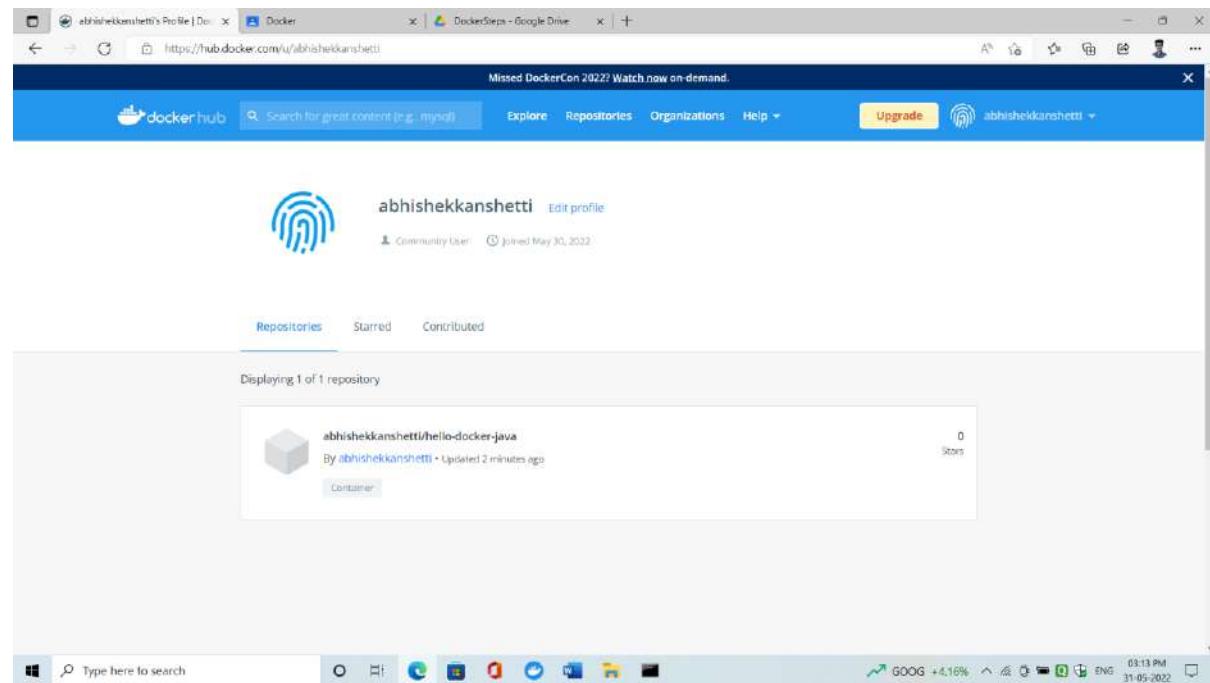
Public URL as below: -

<https://hub.docker.com/r/abhishekkanshetti/hello-docker-java>

Command for pulling Docker Image as follow: -

docker pull abhishekkanshetti/hello-docker-java

In our Profile Image will be shown as below: -



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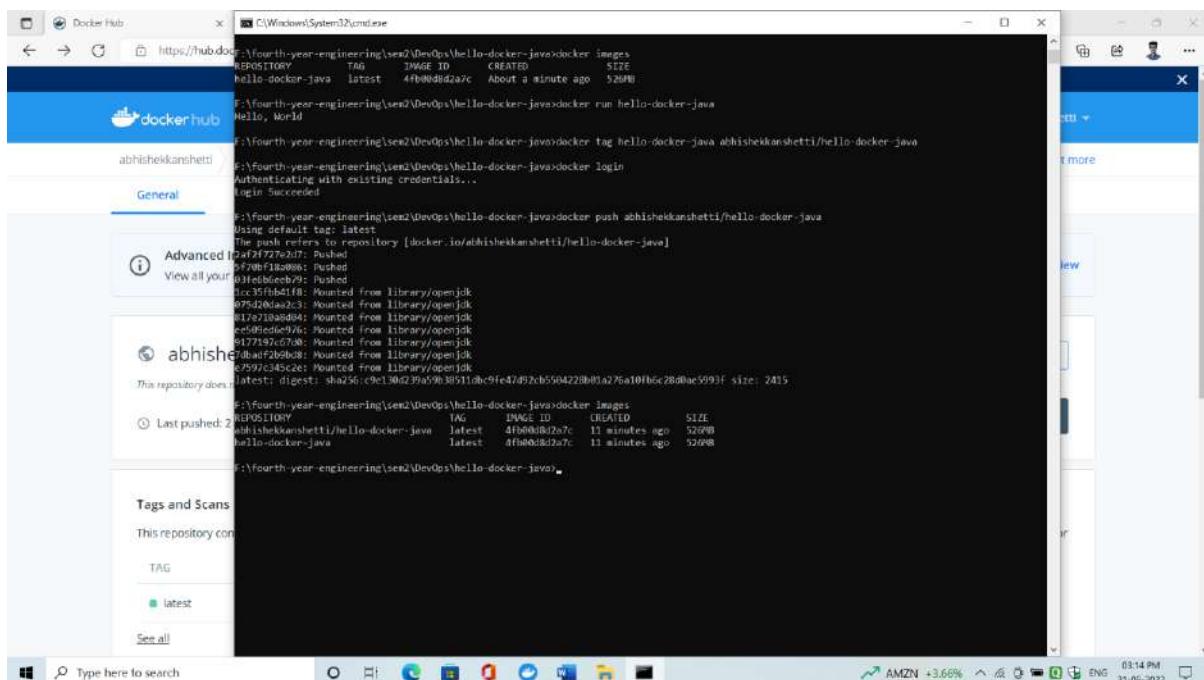
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Current Docker Images as below: -



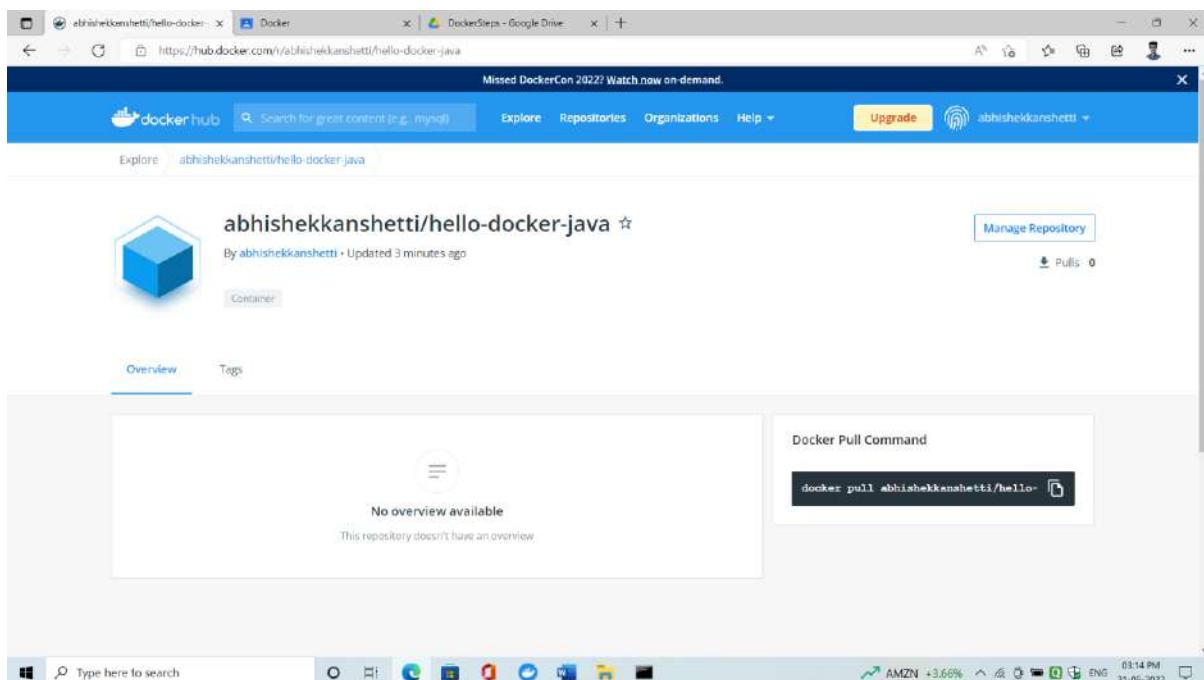
```

C:\Windows\System32\cmd.exe
http://hub.docker.com/
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
Hello-Docker-Java latest 4fb0dd2a7c About a minute ago 520B
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker run hello-docker-java
Hello, World!
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker tag hello-docker-java abhishekkanshetti/hello-docker-java
Authenticating with existing credentials...
Login Succeeded
F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker push abhishekkanshetti/hello-docker-java
Using default tag: latest
The push refers to repository [docker.io/abhishekkanshetti/hello-docker-java]
4fb0dd2a7c: Pushed
520Bf18a868: pushed
01febf6eef79: Pushed
1cc39fb4d1f8: Mounted from library/openjdk
077d40d6aa2c3: Mounted from library/openjdk
817e10a8b84: Mounted from library/openjdk
e77797c7f08: Mounted from library/openjdk
7baaf2b0b08: Mounted from library/openjdk
67992c345c26: Mounted from library/openjdk
Latest: digest: sha256:cb30c239a99b395151db91fe47d97cb5594228b01a276a10fb6c28d0ac5993f size: 2415

F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
abhishekkanshetti/hello-docker-java latest 4fb0dd2a7c 11 minutes ago 520B
abhishekkanshetti/hello-docker-java latest 4fb0dd2a7c 11 minutes ago 520B

F:\Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>

```



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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Command for pulling our pushed docker image as below:-

```
F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker images
REPOSITORY          TAG      IMAGE ID   CREATED             SIZE
hello-docker-java  latest   4f900d8d2a7c  About a minute ago  526MB

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker run hello-docker-java
Hello, World

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker tag hello-docker-java abhishekkanshetti/hello-docker-java
Authenticating with existing credentials...
Login Succeeded

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker push abhishekkanshetti/hello-docker-java
The push refers to a repository [docker.io/abhishekkanshetti/hello-docker-java]
4f900d8d2a7c: Pushed
Digest: sha256:fe130d239a9b305110bc9fe42d92cb550422b0f0a276a10fb6e28d0ae5993f size: 2415

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker images
REPOSITORY          TAG      IMAGE ID   CREATED             SIZE
abhishekkanshetti/hello-docker-java  latest   4f900d8d2a7c  11 minutes ago  526MB
abhishekkanshetti/hello-docker-java  test    4f900d8d2a7c  11 minutes ago  526MB

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker pull abhishekkanshetti/hello-docker-java
```

```
F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker pull abhishekkanshetti/hello-docker-java
F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker images
REPOSITORY          TAG      IMAGE ID      CREATED             SIZE
hello-docker-java  latest   4fb80d8d2a7c  About a minute ago  5269B

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker run hello-docker-java
Hello, World

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker tag hello-docker-java abhishekkanshetti/hello-docker-java
F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker login
Authenticating with existing credentials...
Login Succeeded

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker push abhishekkanshetti/hello-docker-java
The push refers to a repository [docker.io/abhishekkanshetti/hello-docker-java]
  digest: sha256:c9e1306c29959303110bc9fe47d92cb5504220b01a275a10fb6c28d0ae5993f size: 2415

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker images
REPOSITORY          TAG      IMAGE ID      CREATED             SIZE
abhishekkanshetti/hello-docker-java  latest   4fb80d8d2a7c  11 minutes ago  5269B
hello-docker-java   latest   4fb80d8d2a7c  11 minutes ago  5269B

F:\fourth-year-engineering\sem2\DevOps\hello-docker-java>docker pull abhishekkanshetti/hello-docker-java
Using default tag: latest
```

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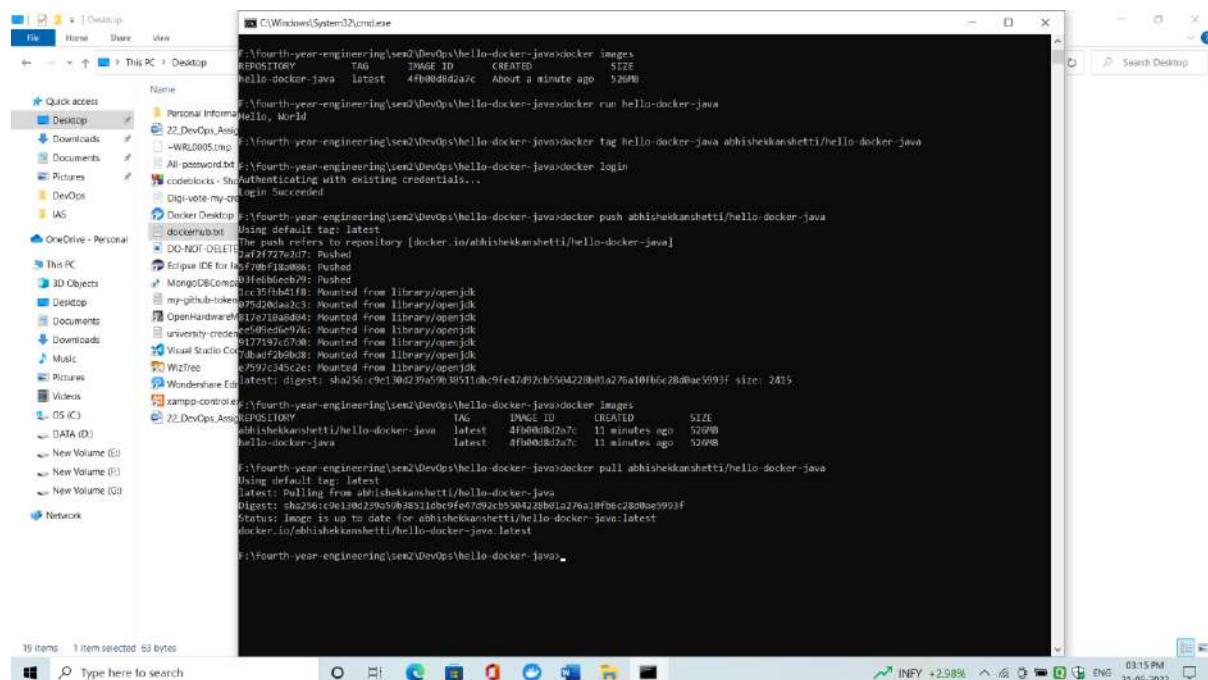
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Here we can see our docker image is up to date: -



```

C:\Windows\System32\cmd.exe
File Home Share View
F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-docker-java latest 4fb0dd2a7c About a minute ago 520MB

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker run hello-docker-java
Hello, World

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker tag hello-docker-java abhishekkanshetti/hello-docker-java
The push refers to repository [docker.io/abhishekkanshetti/hello-docker-java]
2af1727e7d7f: Pushed
Digest: sha256:c9e1308239a59b3851dbcf9fe6792cb5984228bf1a276a1fb6c28d0ac5993f
Status: Image is up to date for abhishekkanshetti/hello-docker-java:latest
docker.io/abhishekkanshetti/hello-docker-java:latest

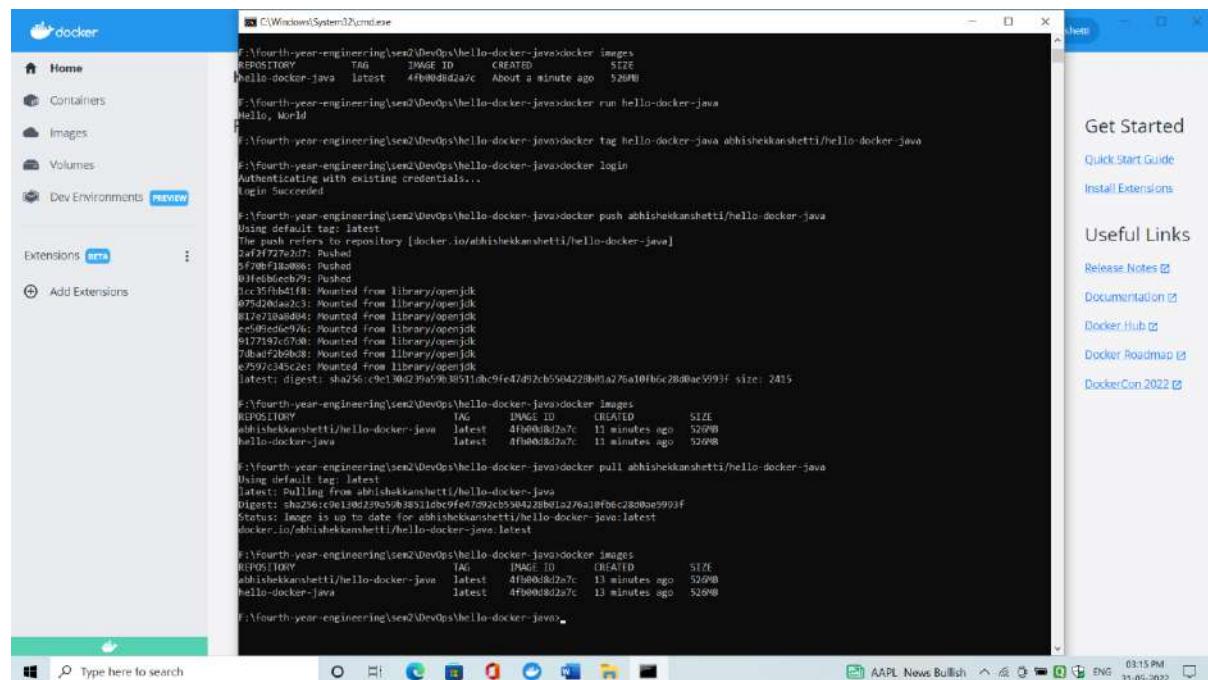
F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker push abhishekkanshetti/hello-docker-java
The push refers to repository [docker.io/abhishekkanshetti/hello-docker-java]
2af1727e7d7f: Pushed
Digest: sha256:c9e1308239a59b3851dbcf9fe6792cb5984228bf1a276a1fb6c28d0ac5993f
Status: Image is up to date for abhishekkanshetti/hello-docker-java:latest
docker.io/abhishekkanshetti/hello-docker-java:latest

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker pull abhishekkanshetti/hello-docker-java
Using default tag: latest
Latest: Pulling from abhishekkanshetti/hello-docker-java
Digest: sha256:c9e1308239a59b3851dbcf9fe6792cb5984228bf1a276a1fb6c28d0ac5993f
Status: Image is up to date for abhishekkanshetti/hello-docker-java:latest
docker.io/abhishekkanshetti/hello-docker-java:latest

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>

```

Current Docker Images as below: -



```

C:\Windows\System32\cmd.exe
Home Containers Images Volumes Dev Environments PREVIEW
Extensions BETA Add Extensions

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-docker-java latest 4fb0dd2a7c About a minute ago 520MB

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker run hello-docker-java
Hello, World

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker tag hello-docker-java abhishekkanshetti/hello-docker-java
The push refers to repository [docker.io/abhishekkanshetti/hello-docker-java]
2af1727e7d7f: Pushed
Digest: sha256:c9e1308239a59b3851dbcf9fe6792cb5984228bf1a276a1fb6c28d0ac5993f
Status: Image is up to date for abhishekkanshetti/hello-docker-java:latest
docker.io/abhishekkanshetti/hello-docker-java:latest

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker push abhishekkanshetti/hello-docker-java
The push refers to repository [docker.io/abhishekkanshetti/hello-docker-java]
2af1727e7d7f: Pushed
Digest: sha256:c9e1308239a59b3851dbcf9fe6792cb5984228bf1a276a1fb6c28d0ac5993f
Status: Image is up to date for abhishekkanshetti/hello-docker-java:latest
docker.io/abhishekkanshetti/hello-docker-java:latest

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker pull abhishekkanshetti/hello-docker-java
Using default tag: latest
Latest: Pulling from abhishekkanshetti/hello-docker-java
Digest: sha256:c9e1308239a59b3851dbcf9fe6792cb5984228bf1a276a1fb6c28d0ac5993f
Status: Image is up to date for abhishekkanshetti/hello-docker-java:latest
docker.io/abhishekkanshetti/hello-docker-java:latest

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
abhishekkanshetti/hello-docker-java latest 4fb0dd2a7c 13 minutes ago 520MB
hello-docker-java latest 4fb0dd2a7c 13 minutes ago 520MB

F:\>Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>

```

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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

Now we will pull other' docker image as below: -

```
C:\Windows\system32\cmd.exe
File Home Insert Design Layout
C:\Windows\system32\cmd.exe
C:\Fourth-year-engineering\sen2\DevOps\Hello-docker-java>docker images
REPOSITORY          TAG        IMAGE ID      CREATED             SIZE
hello-docker-java   latest     4fb80d8d2a7c    About a minute ago   526MB

C:\Fourth-year-engineering\sen2\DevOps\Hello-docker-java>docker run hello-docker-java
Hello, World

C:\Fourth-year-engineering\sen2\DevOps\Hello-docker-java>docker tag hello-docker-java abhishekanshetti/hello-docker-java
C:\Fourth-year-engineering\sen2\DevOps\Hello-docker-java>docker login
Authenticating with existing credentials...
Login Succeeded

C:\Fourth-year-engineering\sen2\DevOps\Hello-docker-java>docker push abhishekanshetti/hello-docker-java
Using default tag: latest
The push refers to a repository [docker.io/abhishekanshetti/hello-docker-java]
4fb80d8d2a7c: Pushed
4fb80d8d2a7c: Pushed
03f1ebbluebb9: Pushed
03f1ebbluebb9: Pushed
03f1ebbluebb9: Merged from library/openjdk
075d2bdaec23: Merged from library/openjdk
0127e10b0d94: Merged from library/openjdk
0e9f95cde946: Merged from library/openjdk
017739f05700: Merged from library/openjdk
7025972e0088: Merged from library/openjdk
52597c4562ee: Merged from library/openjdk
latest: Digest: sha256:cbe130d239a79638511dbc9fe47d92c5594228bf7a276a10fb6c28d0ae5993f size: 2415

C:\Fourth-year-engineering\sen2\DevOps\Hello-docker-java>docker images
REPOSITORY          TAG        IMAGE ID      CREATED             SIZE
abhishekanshetti/hello-docker-java   latest     4fb80d8d2a7c    11 minutes ago   526MB
hello-docker-java   latest     4fb80d8d2a7c    11 minutes ago   526MB

C:\Fourth-year-engineering\sen2\DevOps\Hello-docker-java>docker pull abhishekanshetti/hello-docker-java
Using default tag: latest
Latest: Pulling from abhishekanshetti/hello-docker-java
Digest: sha256:cbe130d239a79638511dbc9fe47d92c5594228bf7a276a10fb6c28d0ae5993f
Status: Image is up to date for abhishekanshetti/hello-docker-java:latest
Mocike_in/abhishekanshetti/hello-docker-java:latest

C:\Fourth-year-engineering\sen2\DevOps\Hello-docker-java>docker images
REPOSITORY          TAG        IMAGE ID      CREATED             SIZE
abhishekanshetti/hello-docker-java   latest     4fb80d8d2a7c    13 minutes ago   526MB
hello-docker-java   latest     4fb80d8d2a7c    13 minutes ago   526MB

C:\Fourth-year-engineering\sen2\DevOps\Hello-docker-java>docker pull prathameshpuranki/hello-docker-java
```

```
C:\Windows\system32\cmd.exe - docker pull prathmeshpuranik/hello-docker-java
11/c100d0d4: Mounted from library/openjdk
ee09edcfd976: Mounted from library/openjdk
177179c67630: Mounted from library/openjdk
7dbad2b08b: Mounted from library/openjdk
e7957c345c2c: Mounted from library/openjdk

sha256:4e13d039a59638511dh#:e47d92cb55042fbb01a76a10fb628d8ae5993f size: 2415

?Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
abhishekanshetti/hello-docker-java latest af00e802c7c 11 minutes ago 526MB
hello-docker-java latest 4ff00e802c7c 11 minutes ago 526MB

?Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker pull abhishekanshetti/hello-docker-java
Using default tag: latest
Status: Image is up to date for abhishekanshetti/hello-docker-java:latest
abhishekanshetti/hello-docker-java:latest

?Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
abhishekanshetti/hello-docker-java latest af00e802c7c 13 minutes ago 526MB
hello-docker-java latest 4ff00e802c7c 13 minutes ago 526MB

?Fourth-year-engineering\sem2\DevOps\Hello-Docker-Java>docker pull prathmeshpuranik/hello-docker-java
Using default tag: latest
```

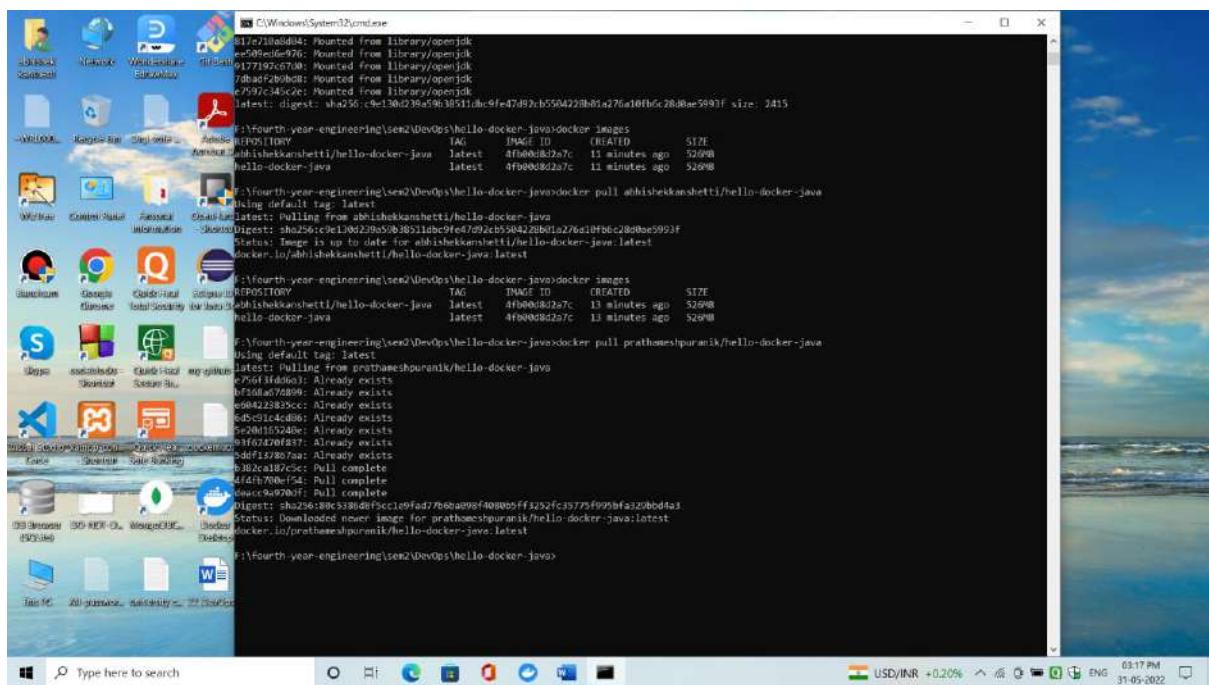
**WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
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DEVOPS**

Name: Abhishek Basavraj Kanshetti

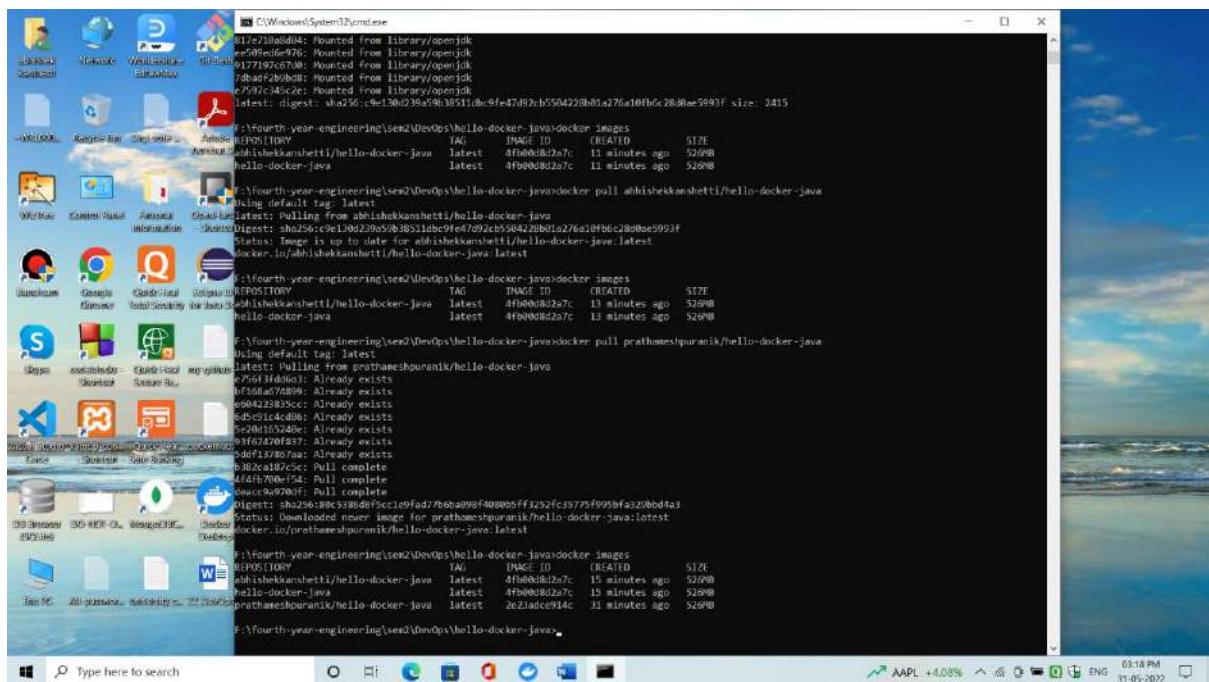
Roll No: 22

ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.
Pulled Docker Image as follow: -



Current Docker Images as below: -



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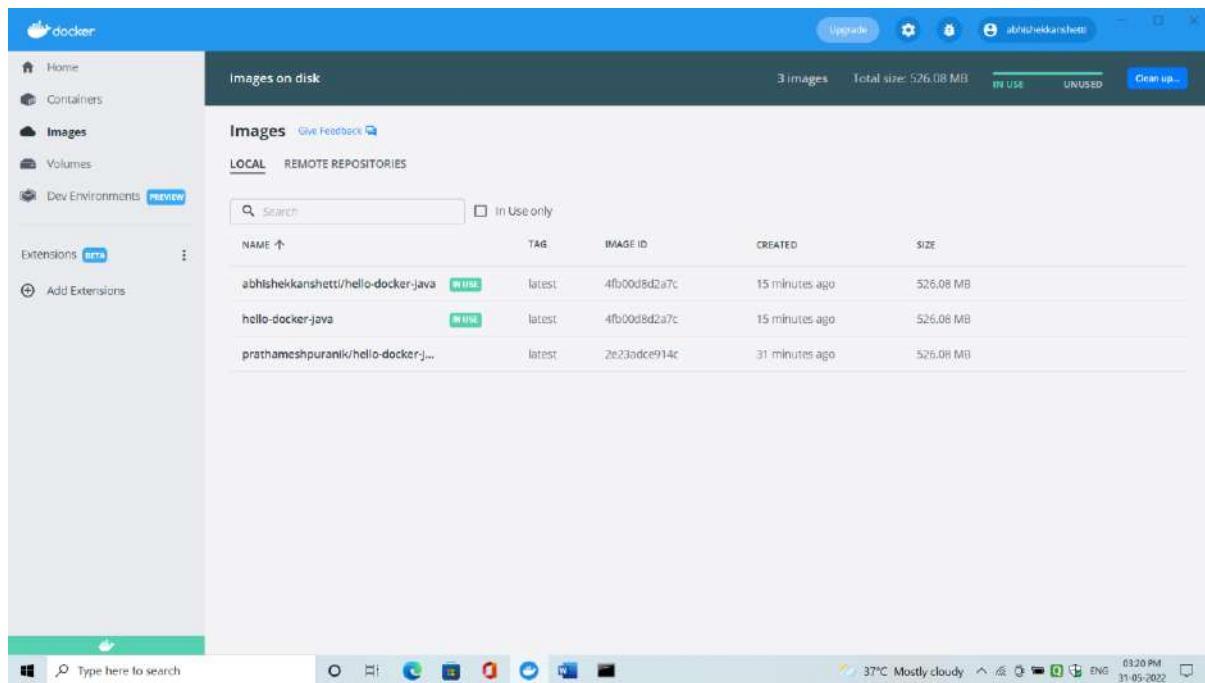
Name: Abhishek Basavraj Kanshetti

Roll No: 22

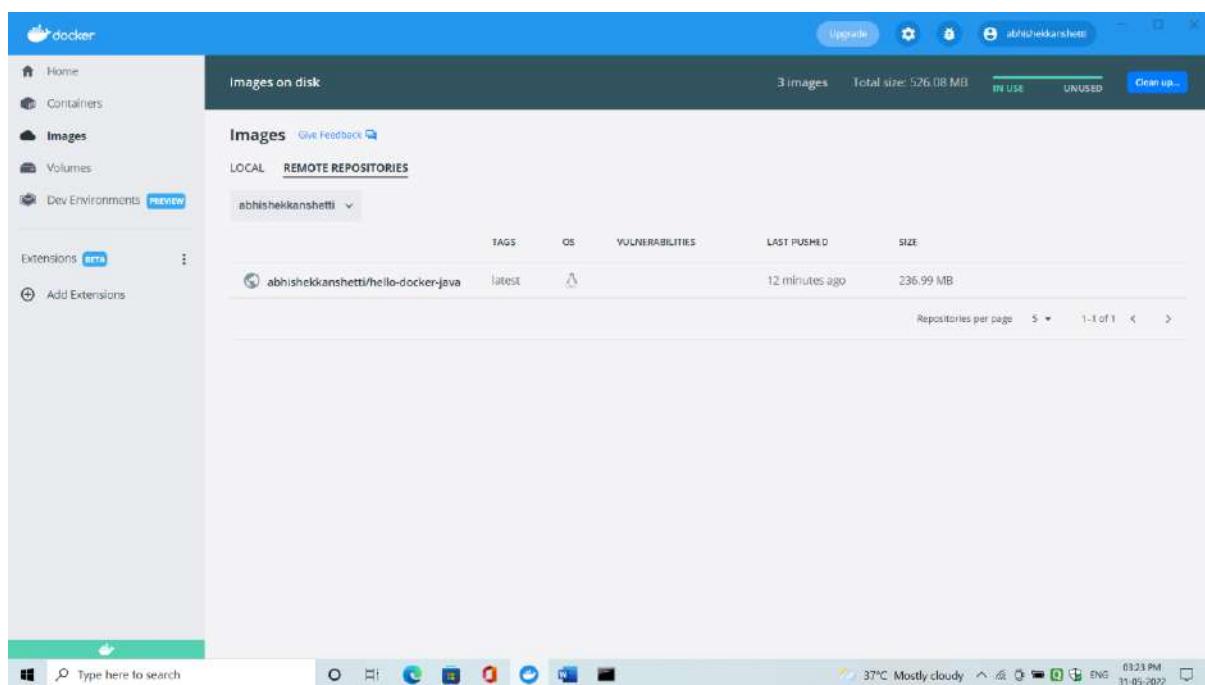
ASSIGNMENT NO: 8

Title: Build a Docker image and push it to Docker Hub.

When we click on Images tab in our Docker Application: -



Remote Repositories as below: -



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DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Aim:

Create a Jenkins pipeline to execute any Java Application.

Problem statement:

Create a Jenkins pipeline to execute any Java Application.

Submit pdf file with all steps and screenshots.

Output Screenshots:

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2021-22 SEMESTER-II
DEVOPS**

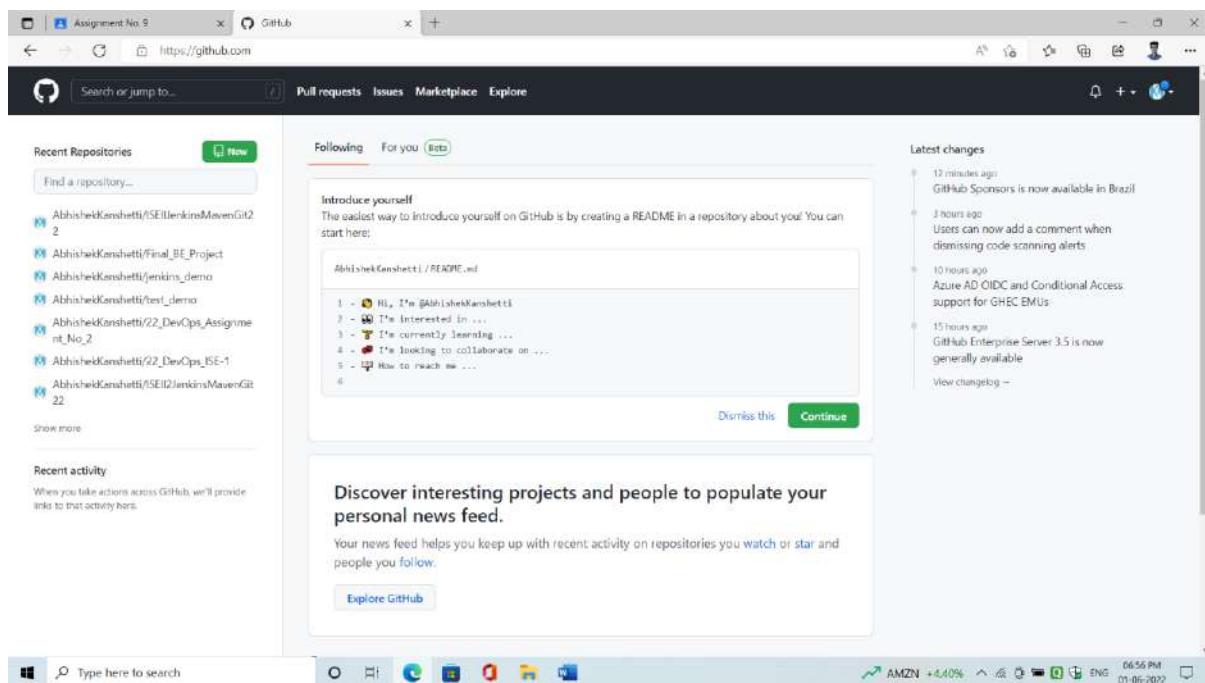
Name: Abhishek Basavraj Kanshetti

Roll No: 22

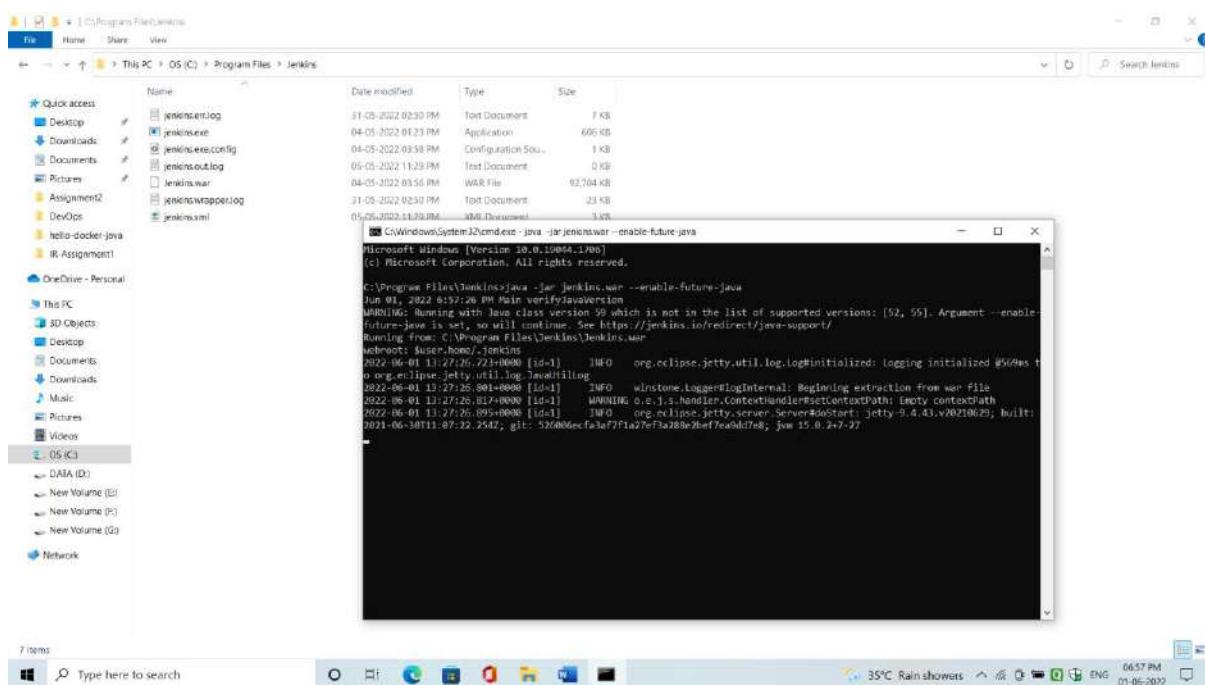
ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

First Sign in to GitHub: -



Then we will start the Jenkins as follow: -



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DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Then we will Login to Jenkins as below: -



After Login: -

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DEVOPS

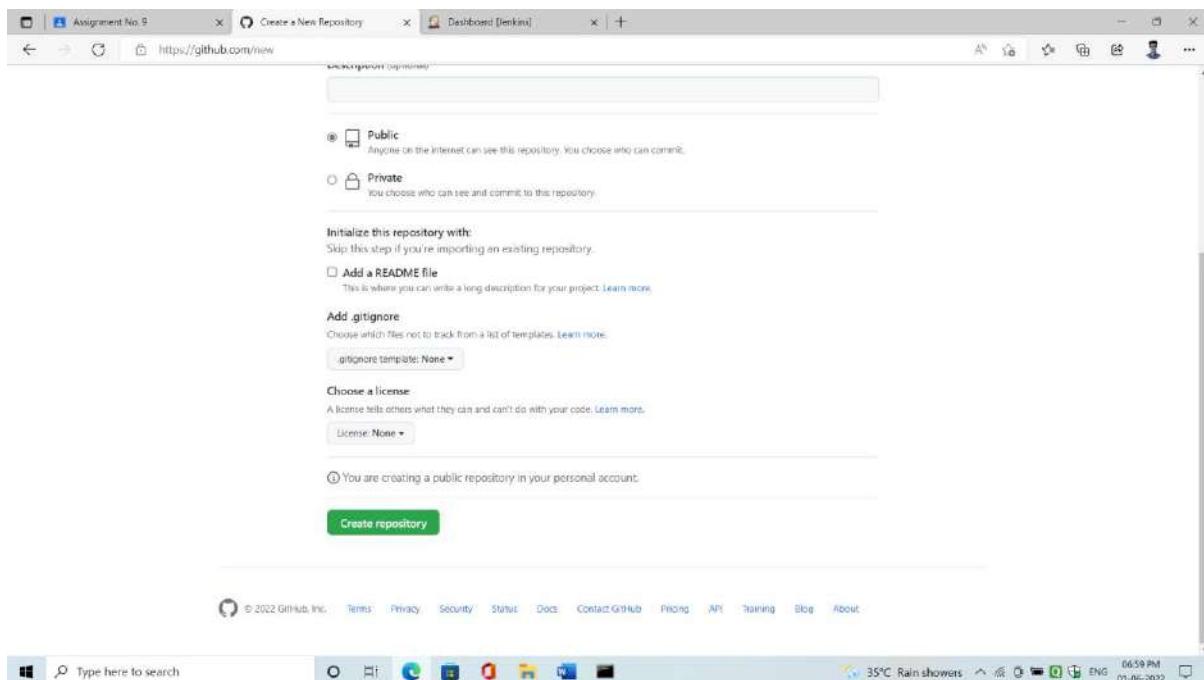
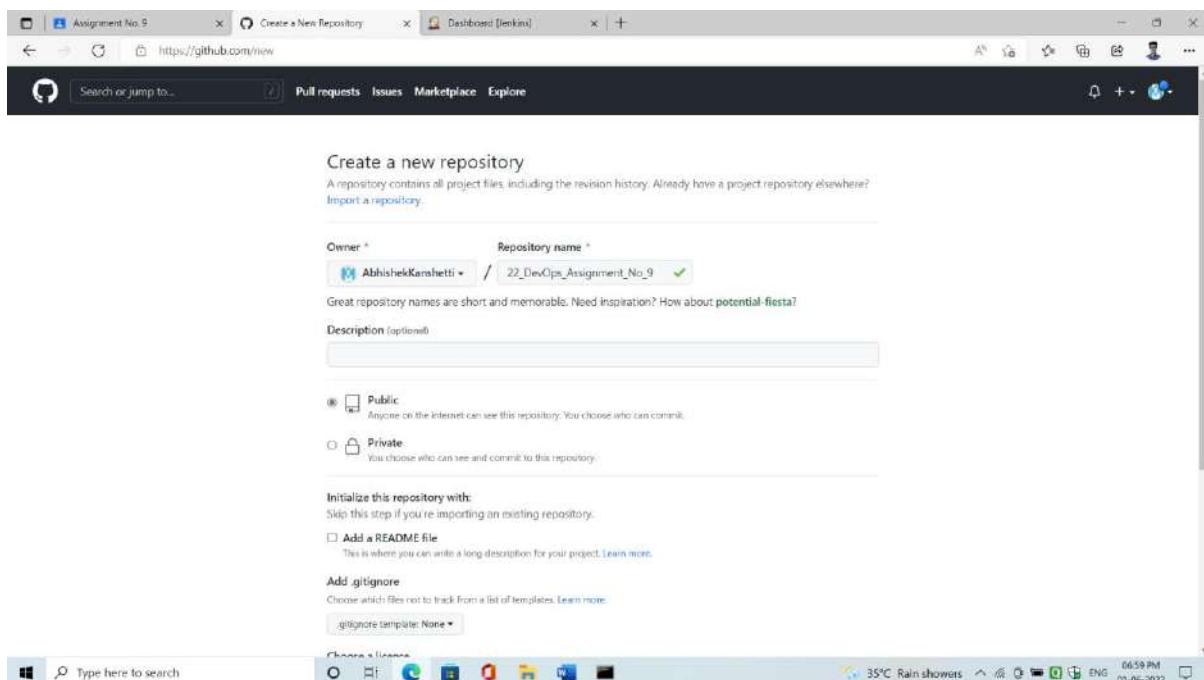
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Then we will create the Repository on GitHub as below: -



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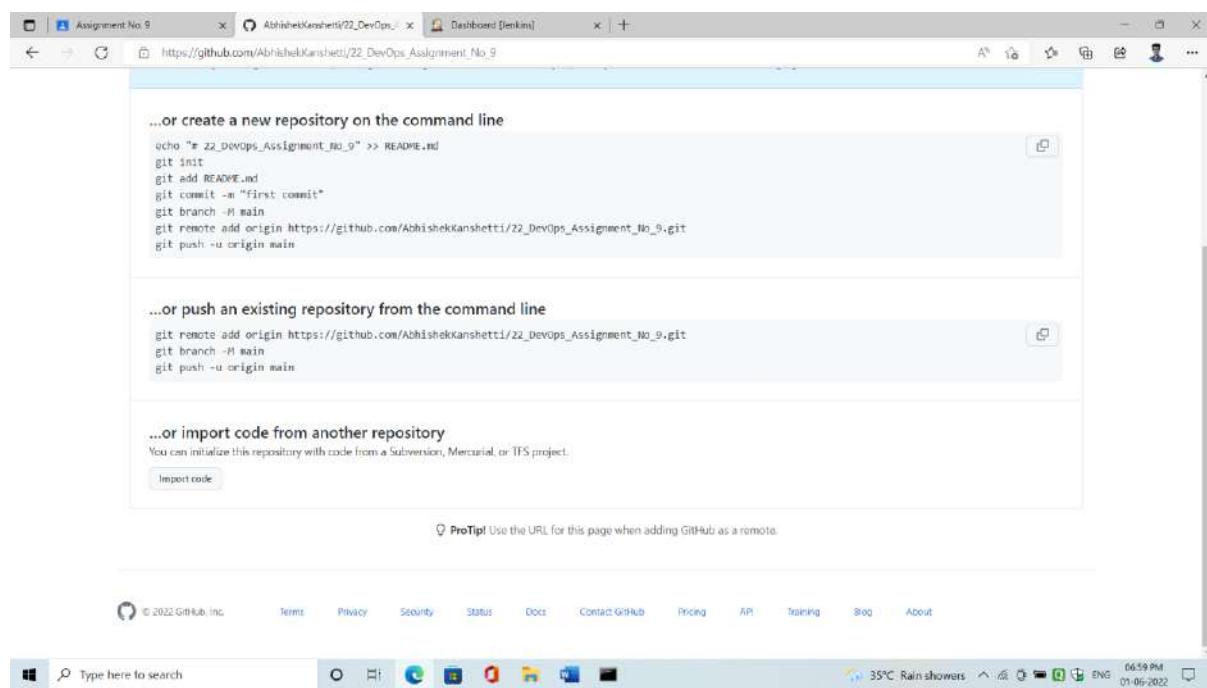
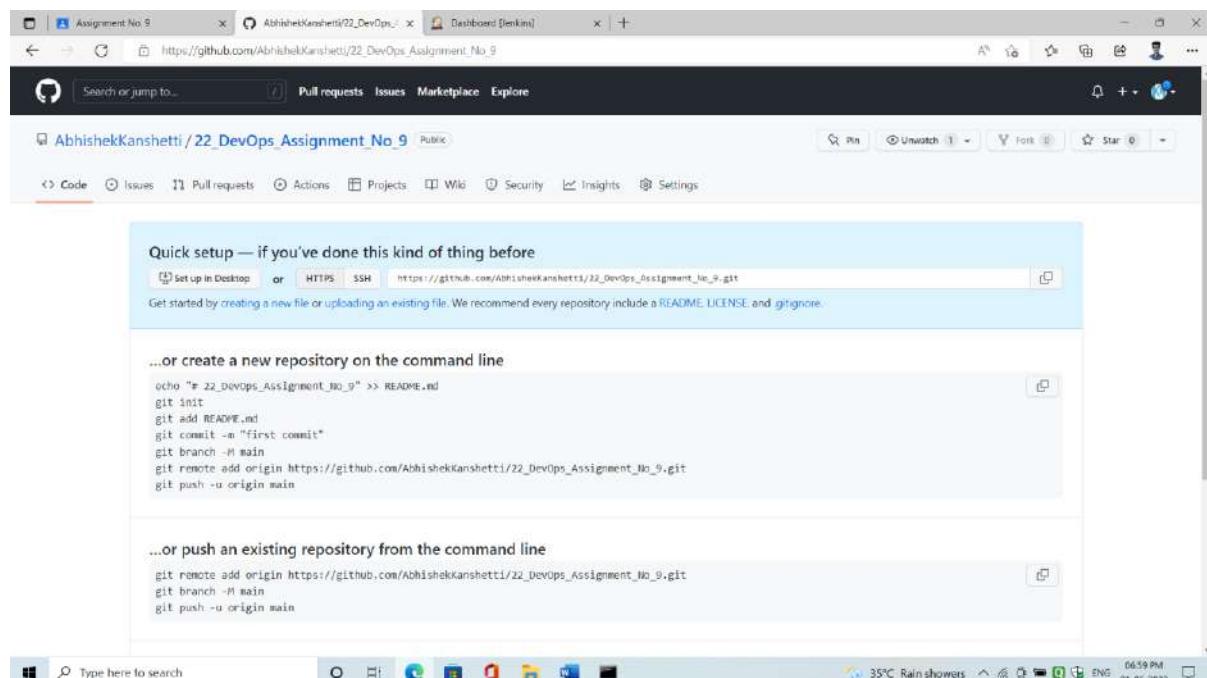
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Created Repository on GitHub: -



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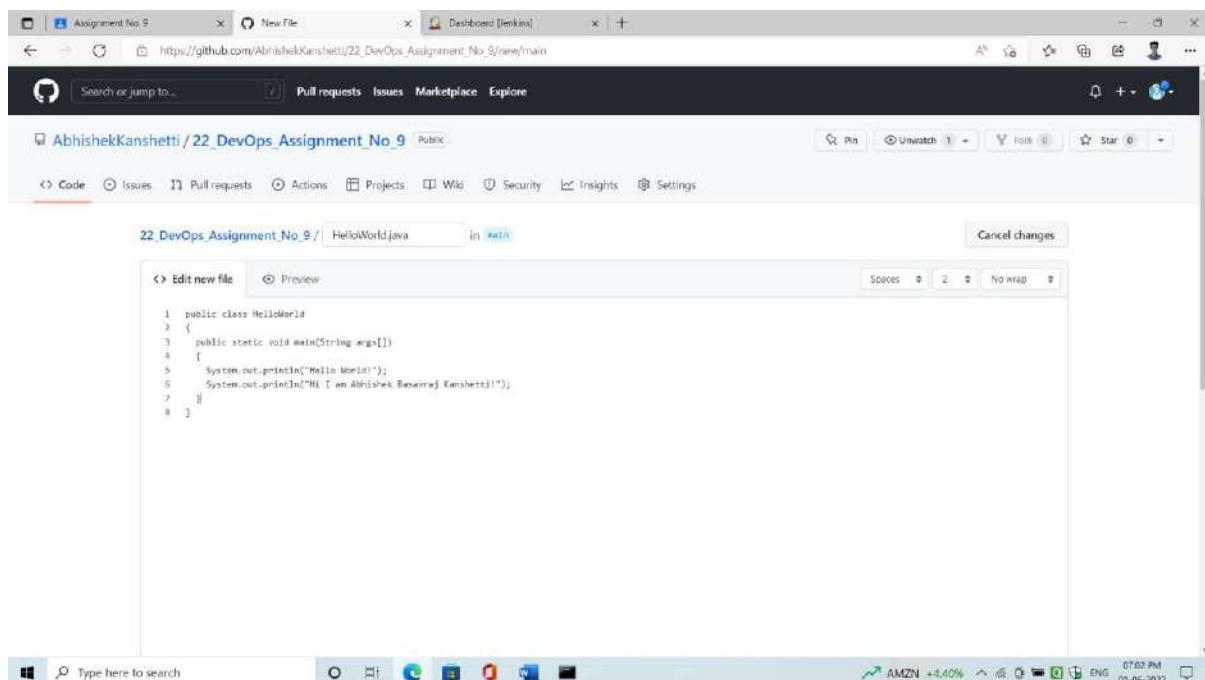
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

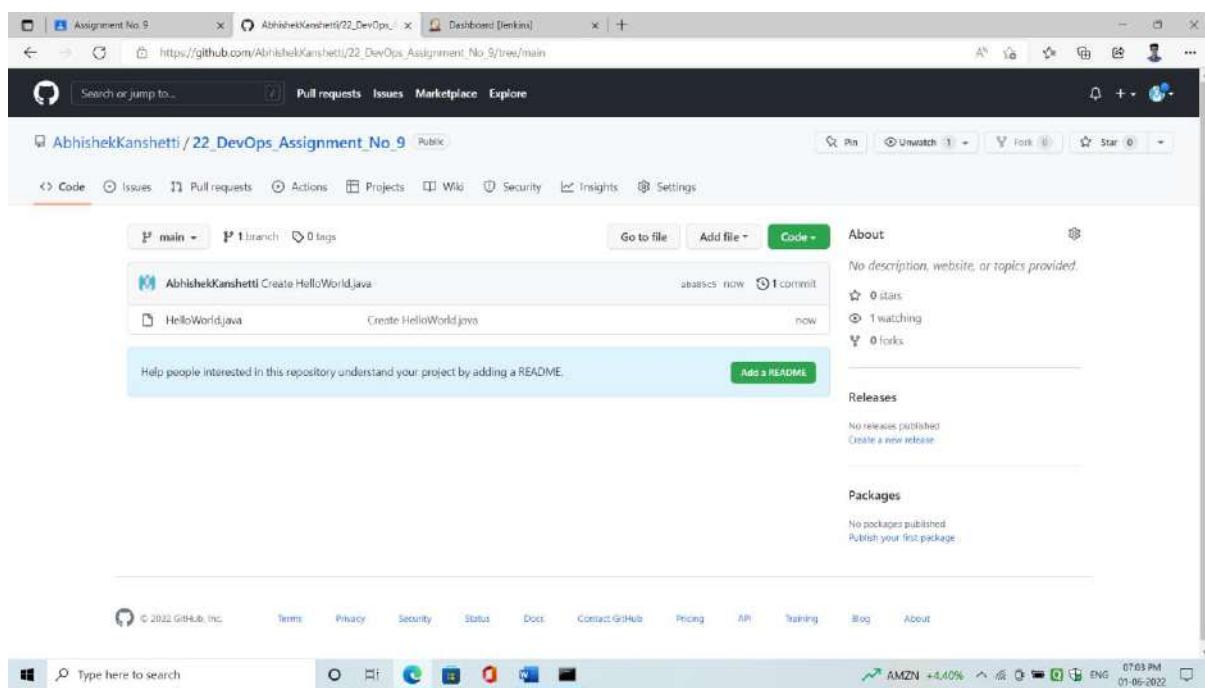
Adding “HelloWorld.java” file as below: -



The screenshot shows a GitHub code editor window. The URL in the address bar is https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_9/new/main. The code editor displays the following Java code:

```
1 public class HelloWorld
2 {
3     public static void main(String args[])
4     {
5         System.out.println("Hello World!");
6         System.out.println("Hello I am Abhishek Basavraj Kanshetti!");
7     }
8 }
```

Added “HelloWorld.java” file as below: -



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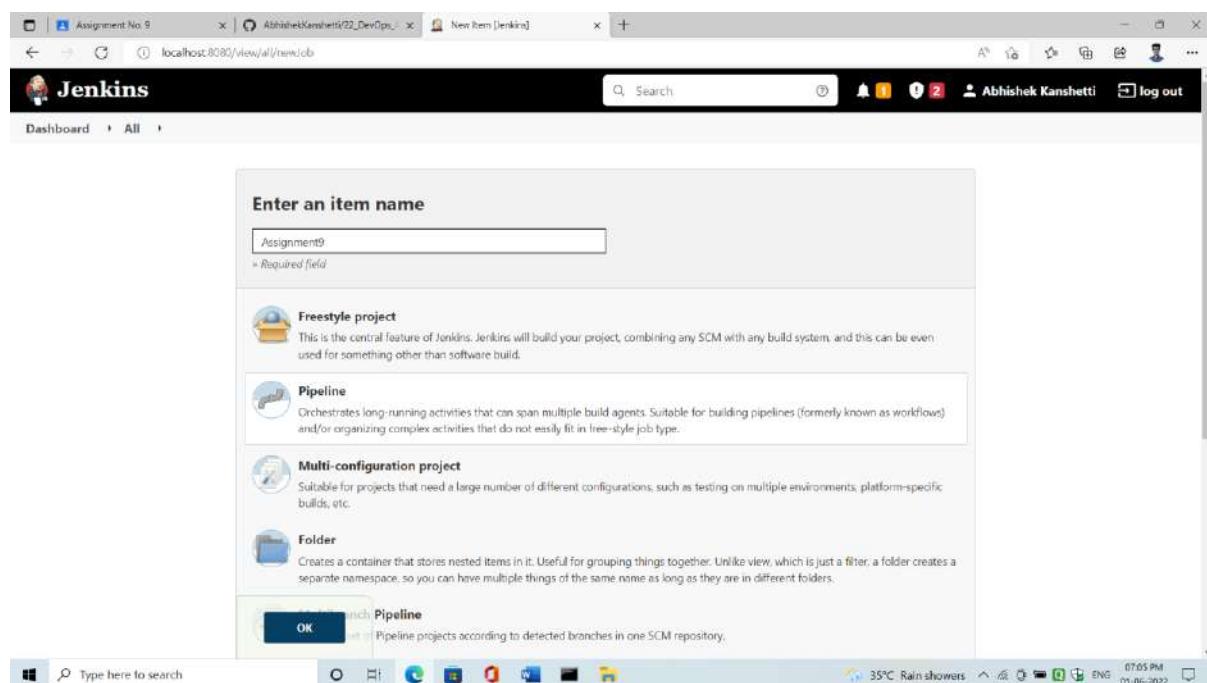
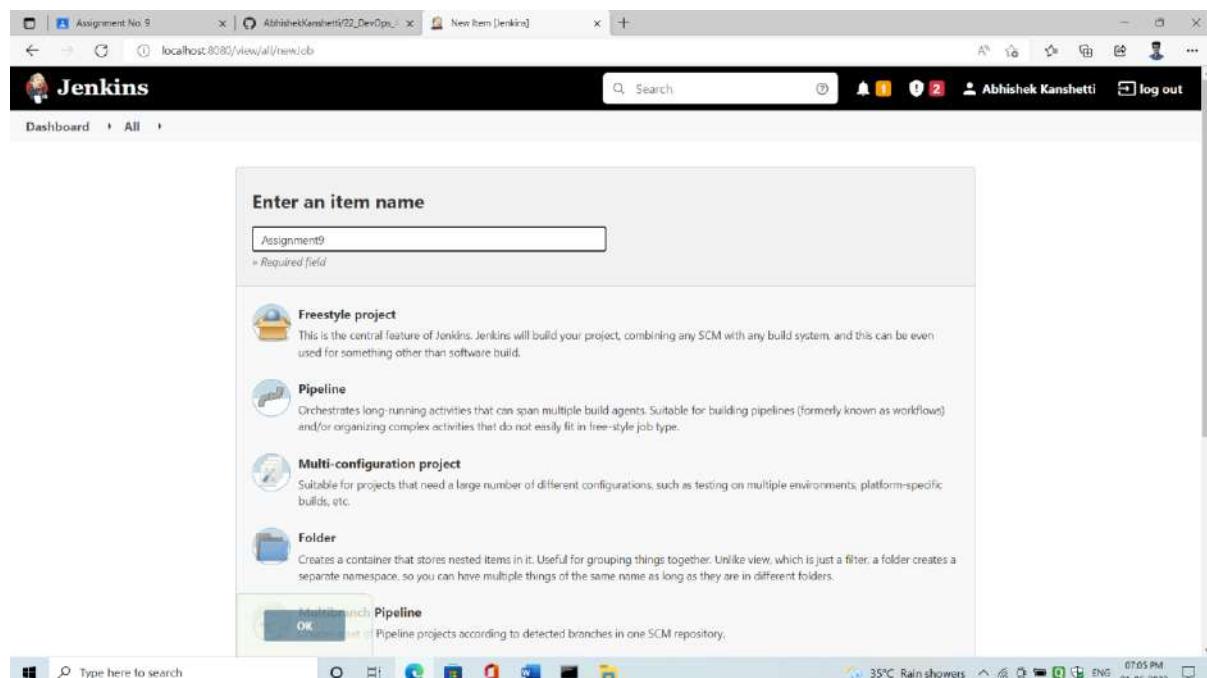
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Creating a New Pipeline Job on Jenkins as below: -



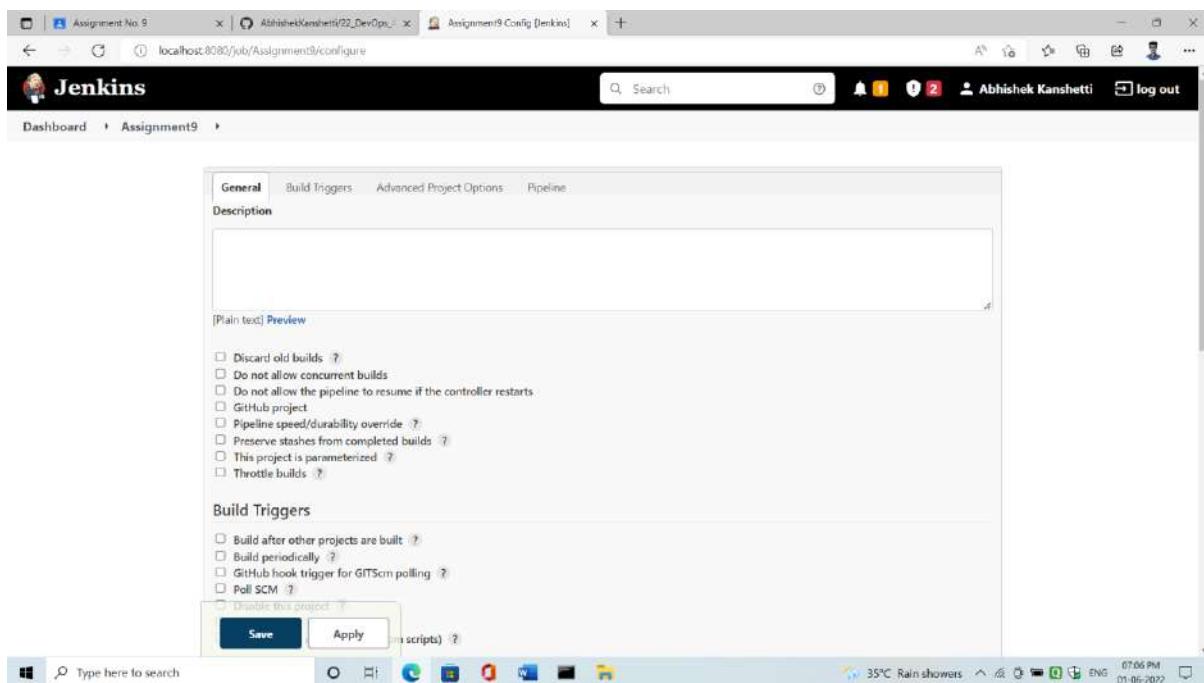
WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

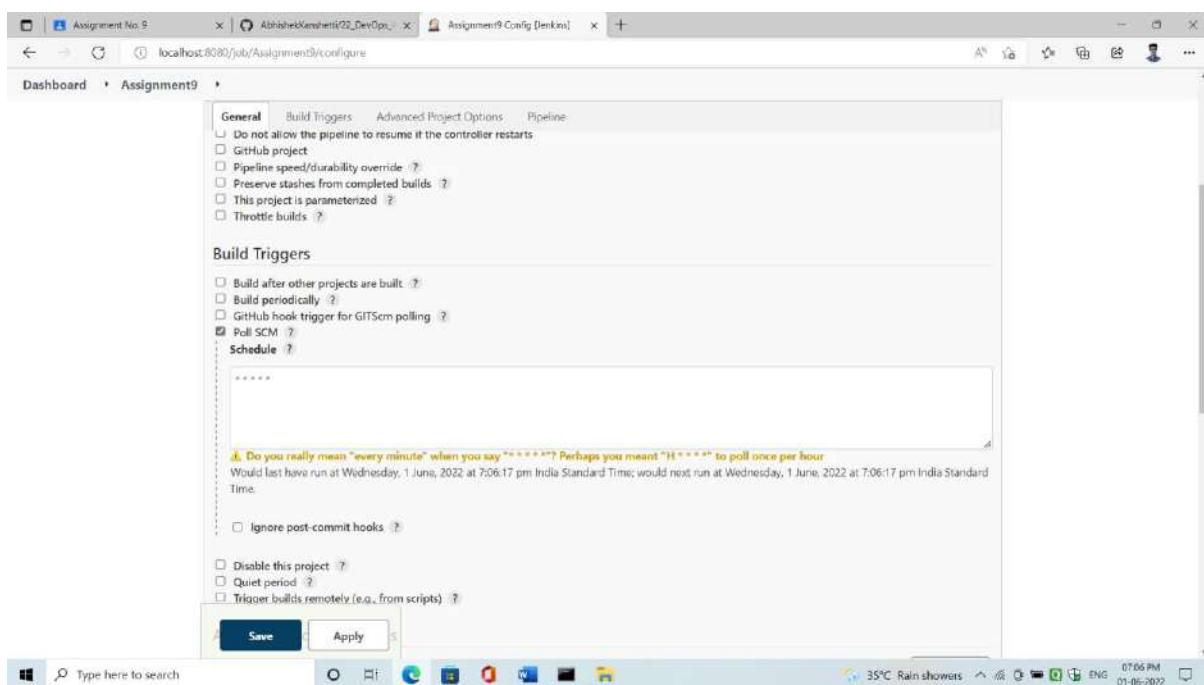
Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.
Then We will Select Poll SCM as below: -



And we will enter “* * * * *” as below: -



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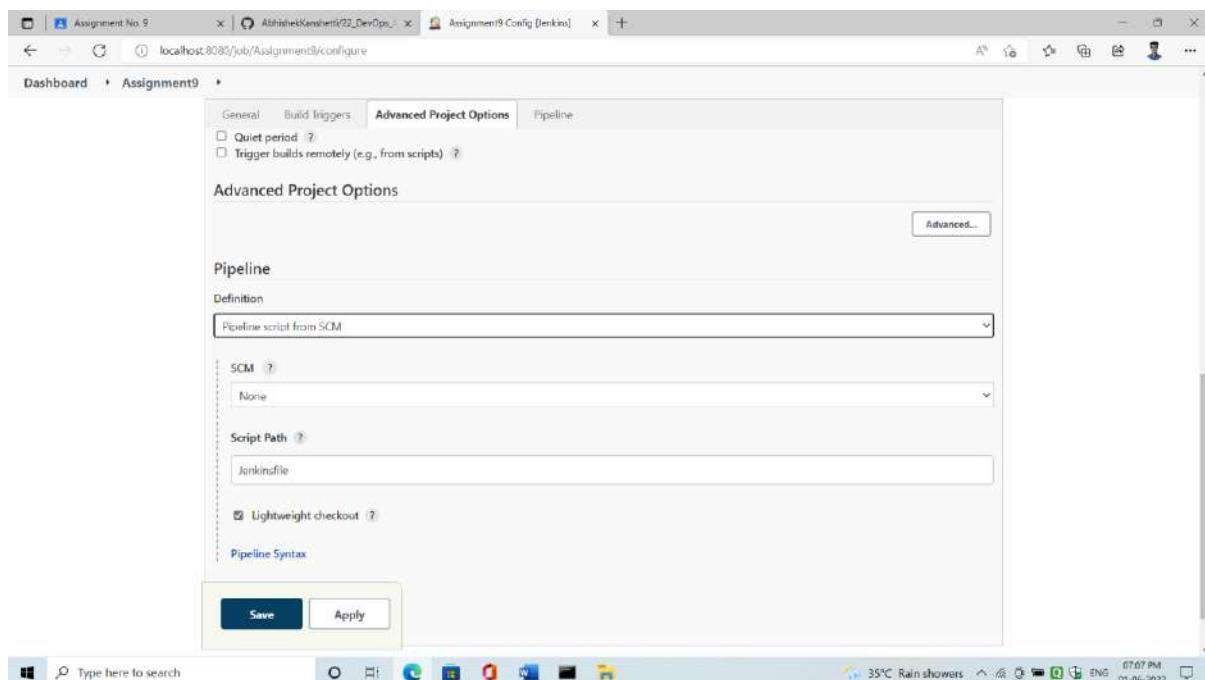
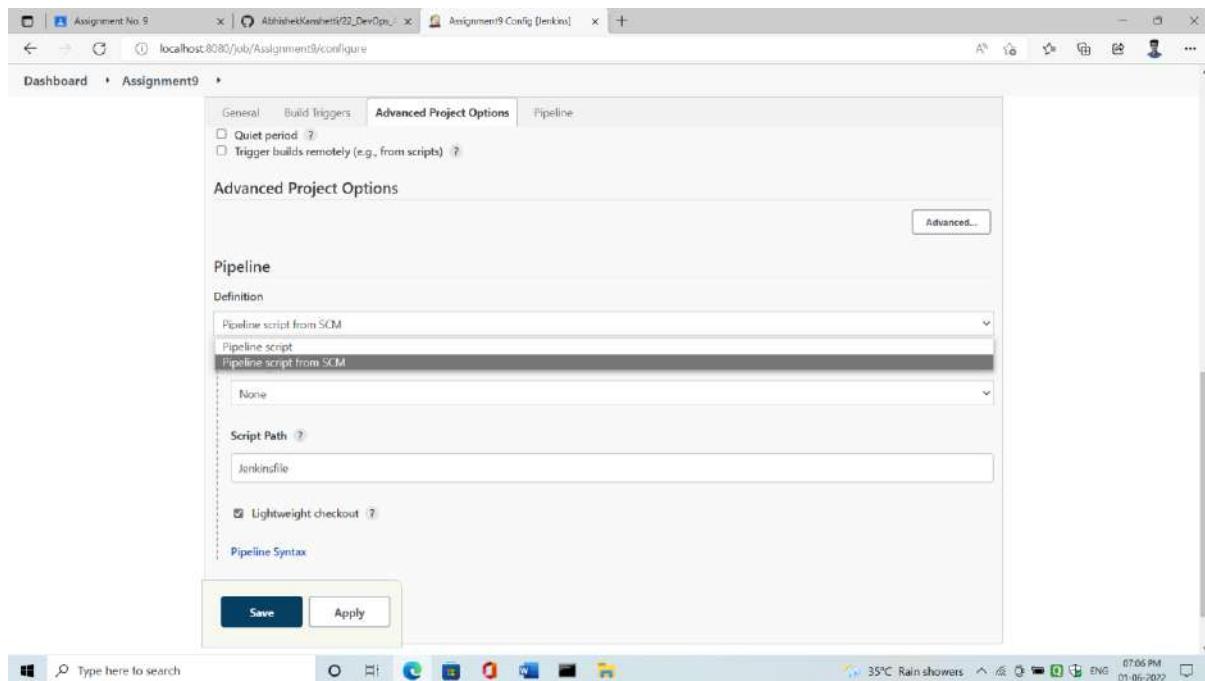
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Then In Pipeline we will select Pipeline script from SCM as below: -



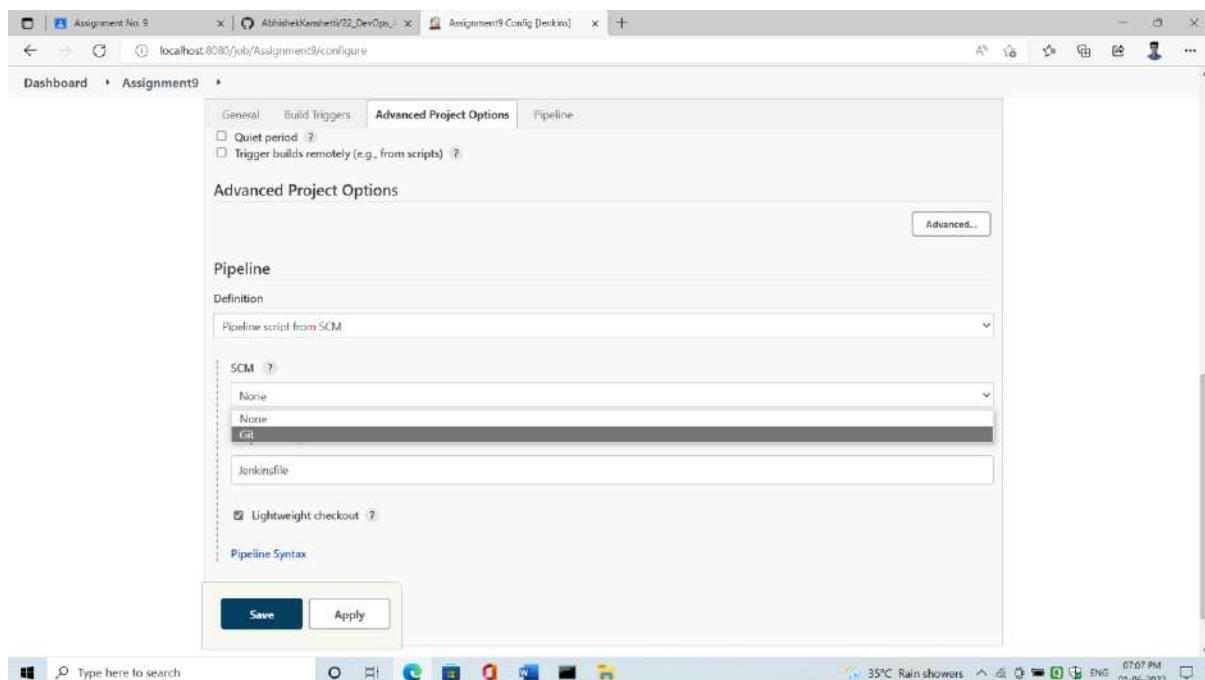
**WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
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2021-22 SEMESTER-II
DEVOPS**

Name: Abhishek Basavraj Kanshetti

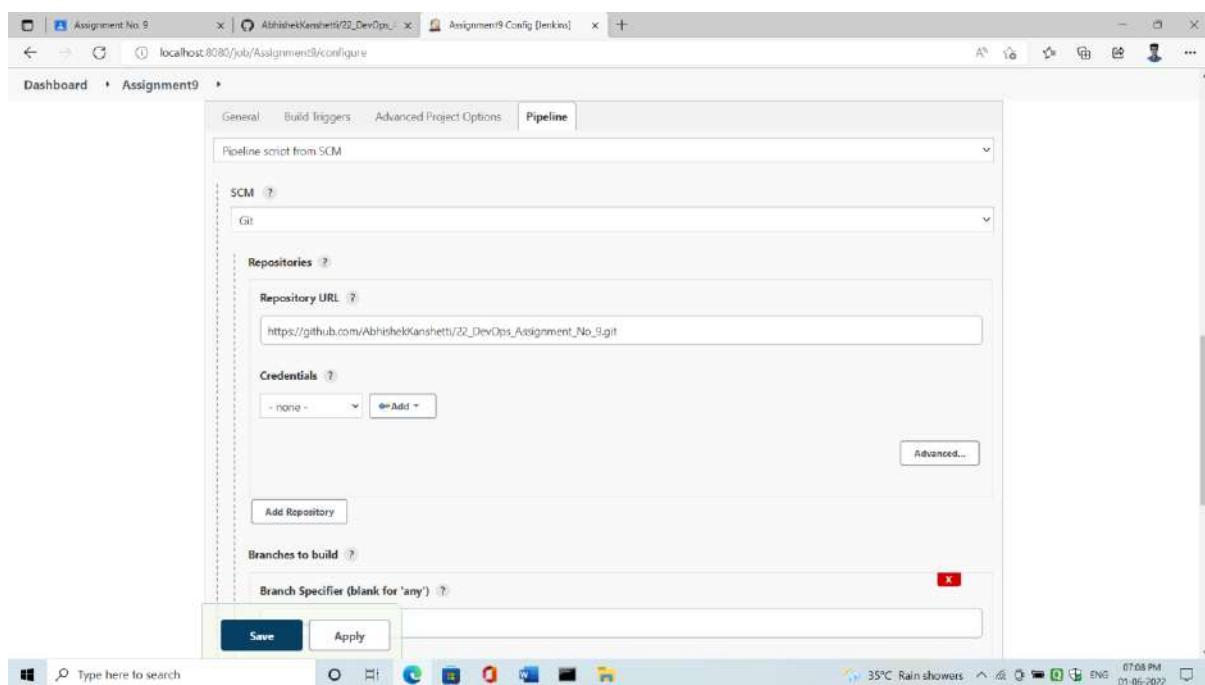
Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.
Then In SCM we will select Git Option as below: -



Then we will give Git URL as below: -



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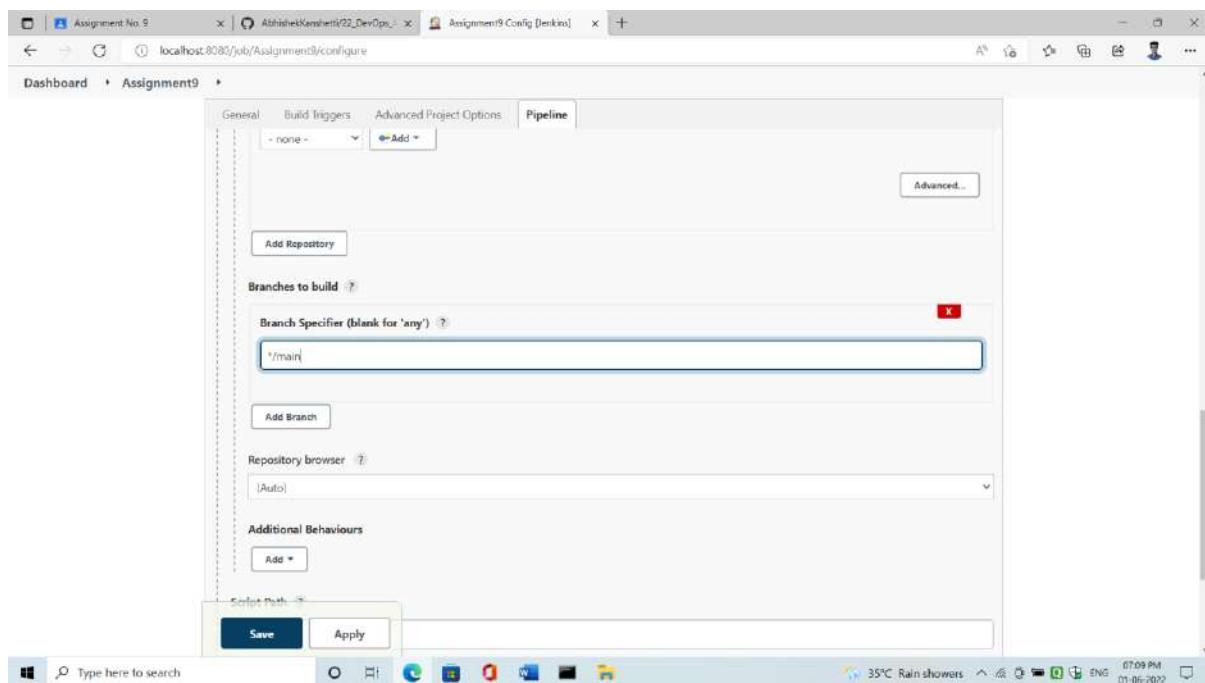
Name: Abhishek Basavraj Kanshetti

Roll No: 22

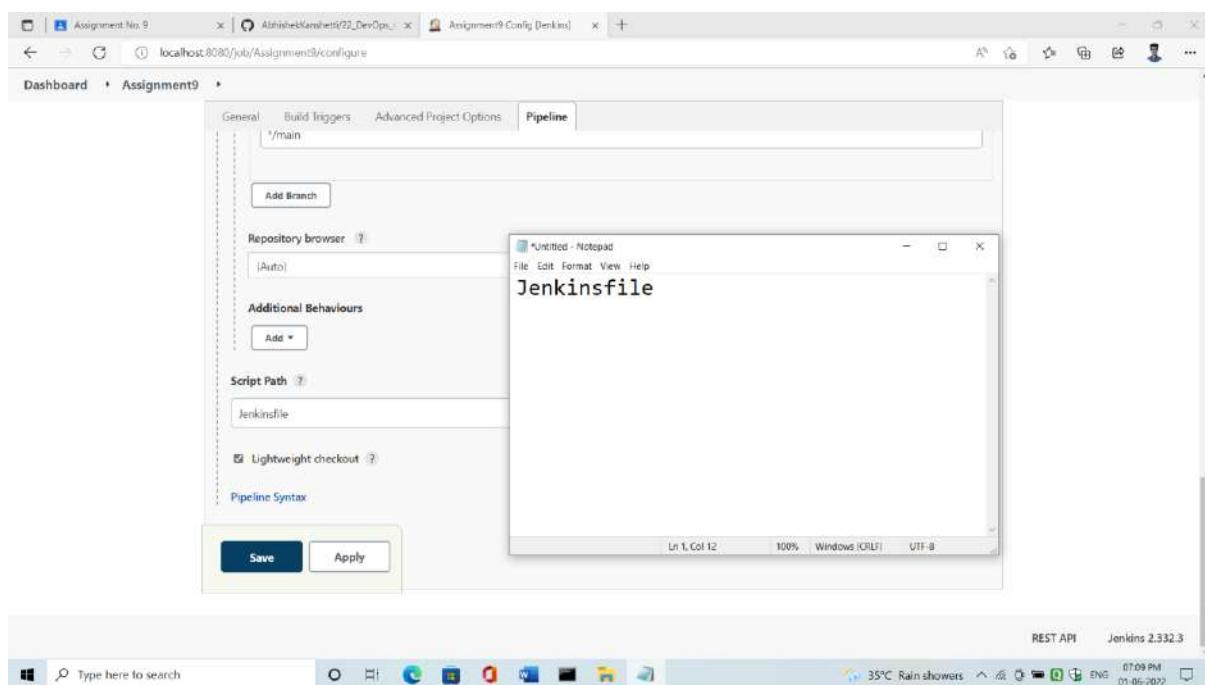
ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Then we will change branch name as “main” as below: -



We will copy Jenkinsfile name as below: -



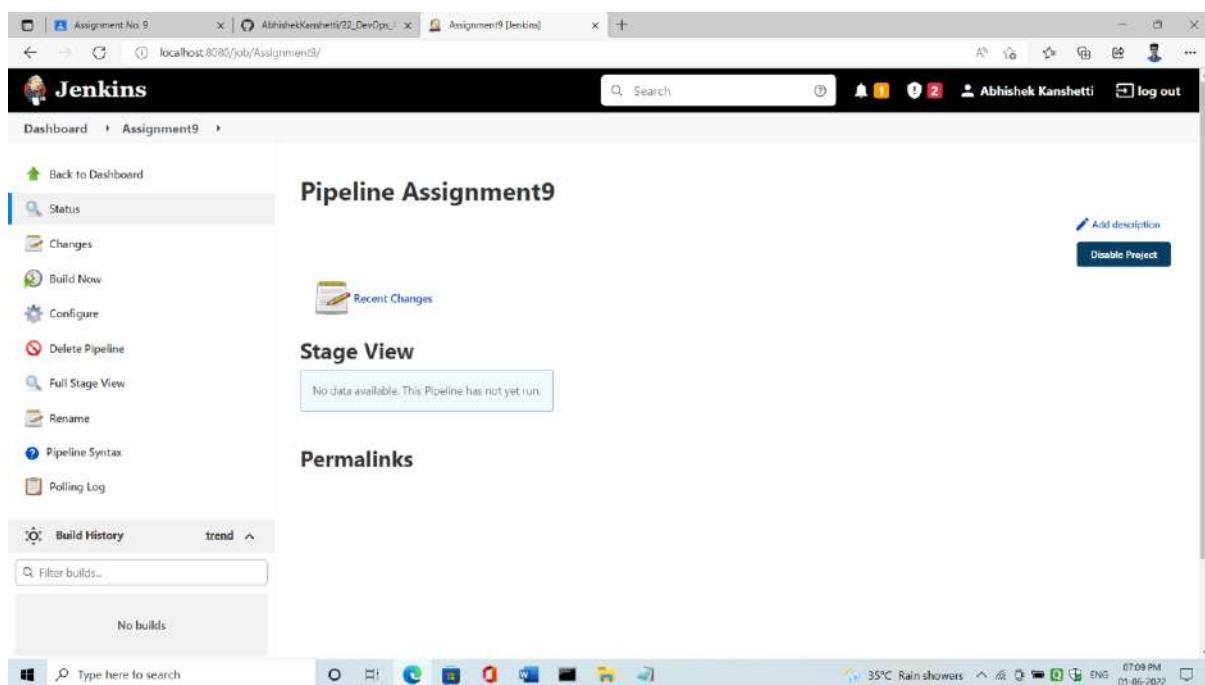
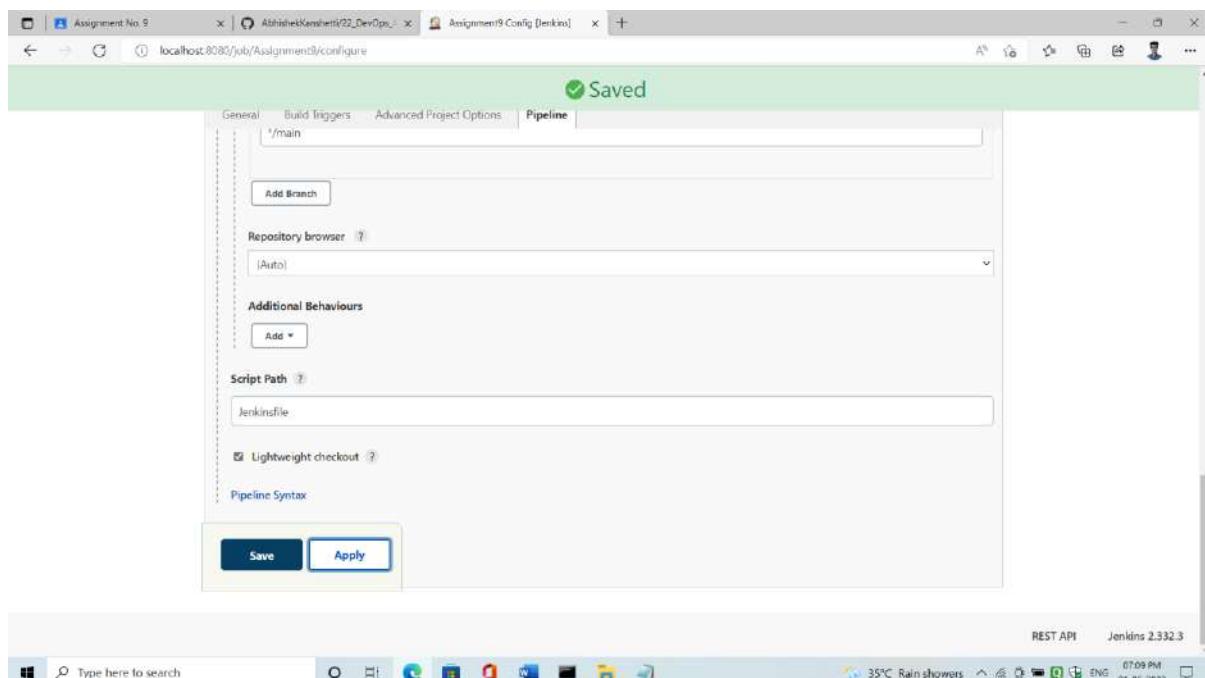
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.
Then we will click on Apply as below:-



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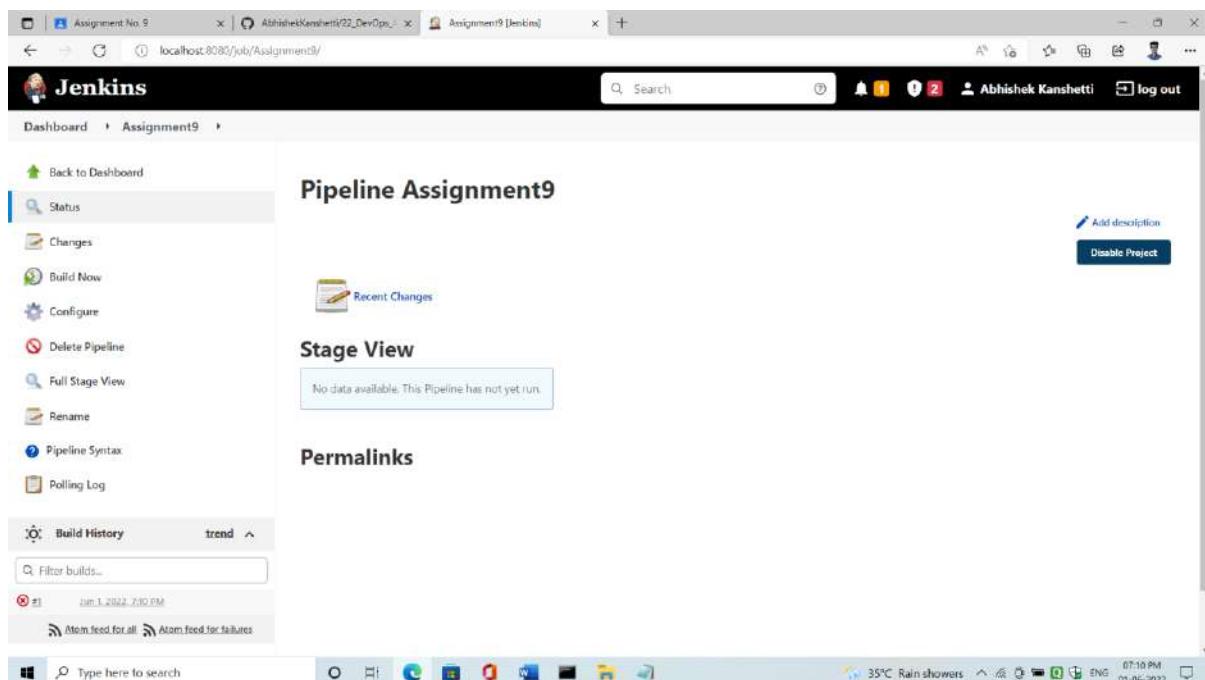
Name: Abhishek Basavraj Kanshetti

Roll No: 22

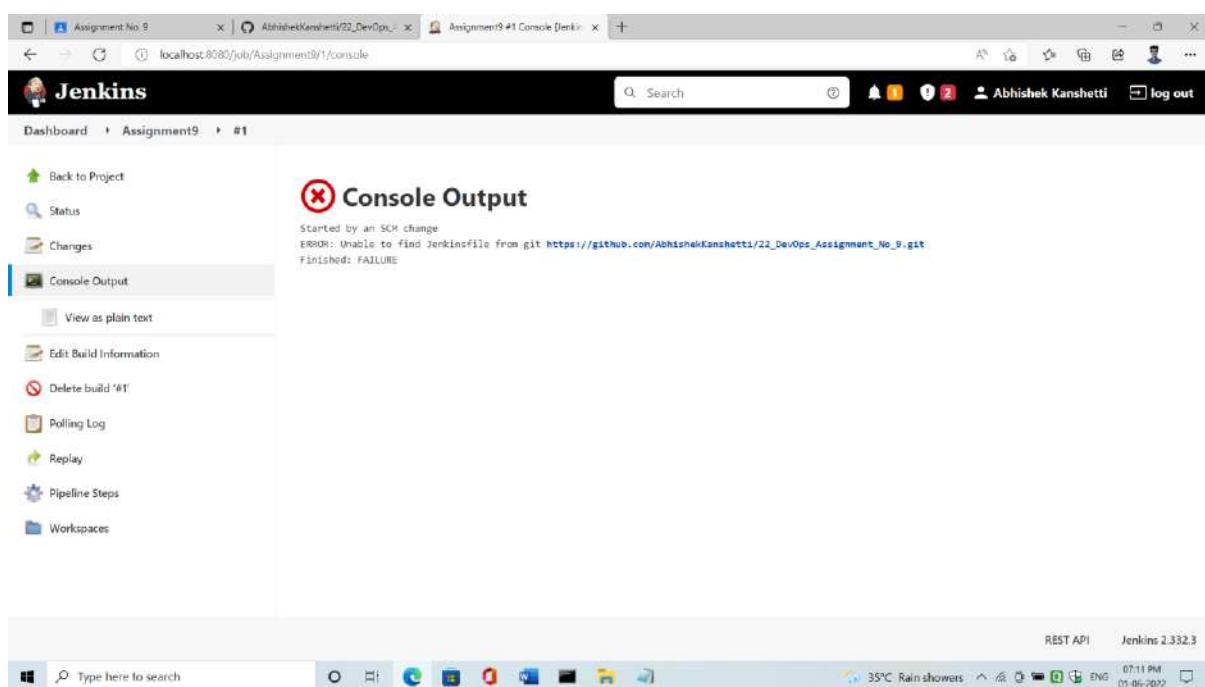
ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

This build will fail, because we have not added yet Jenkinsfile: -



Console Output shows as below: -



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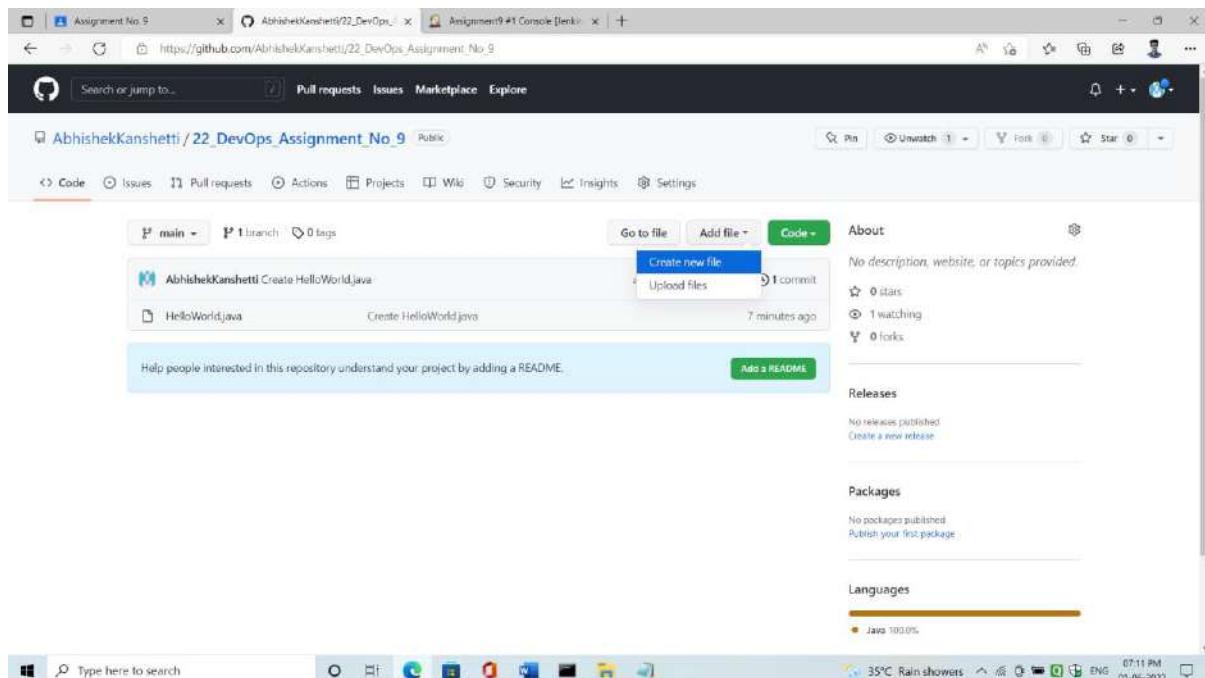
Name: Abhishek Basavraj Kanshetti

Roll No: 22

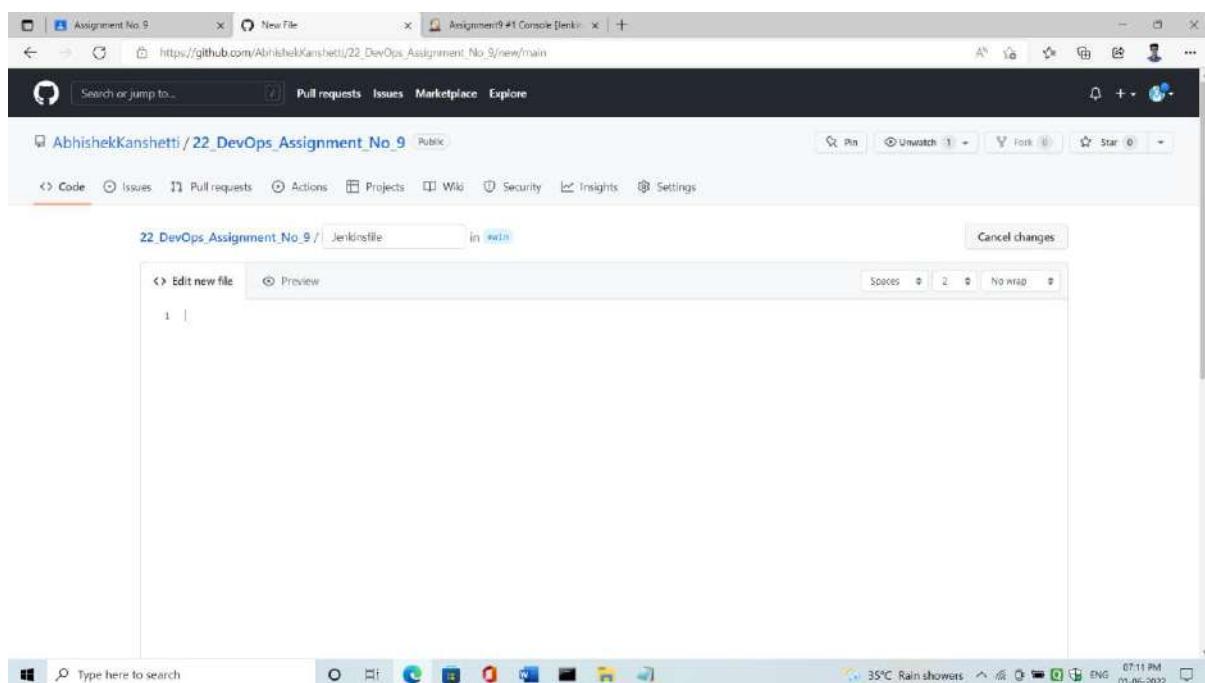
ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Now we will add Jenkinsfile on GitHub as below: -



Adding Jenkinsfile as below: -



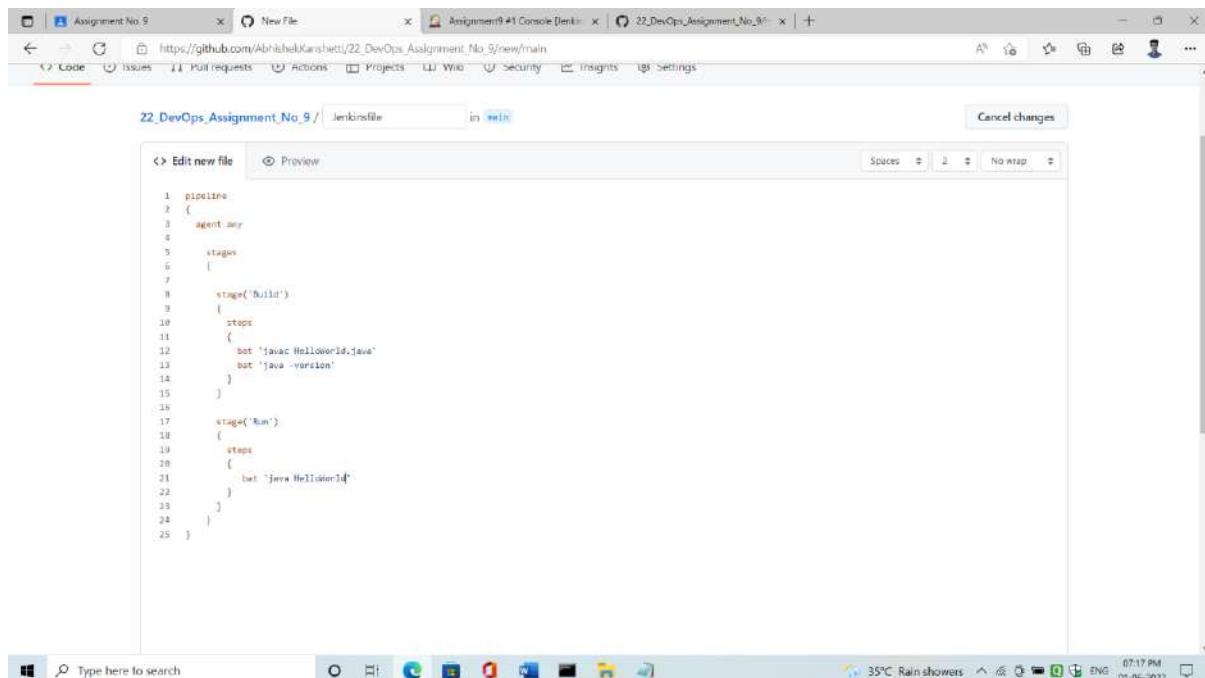
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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

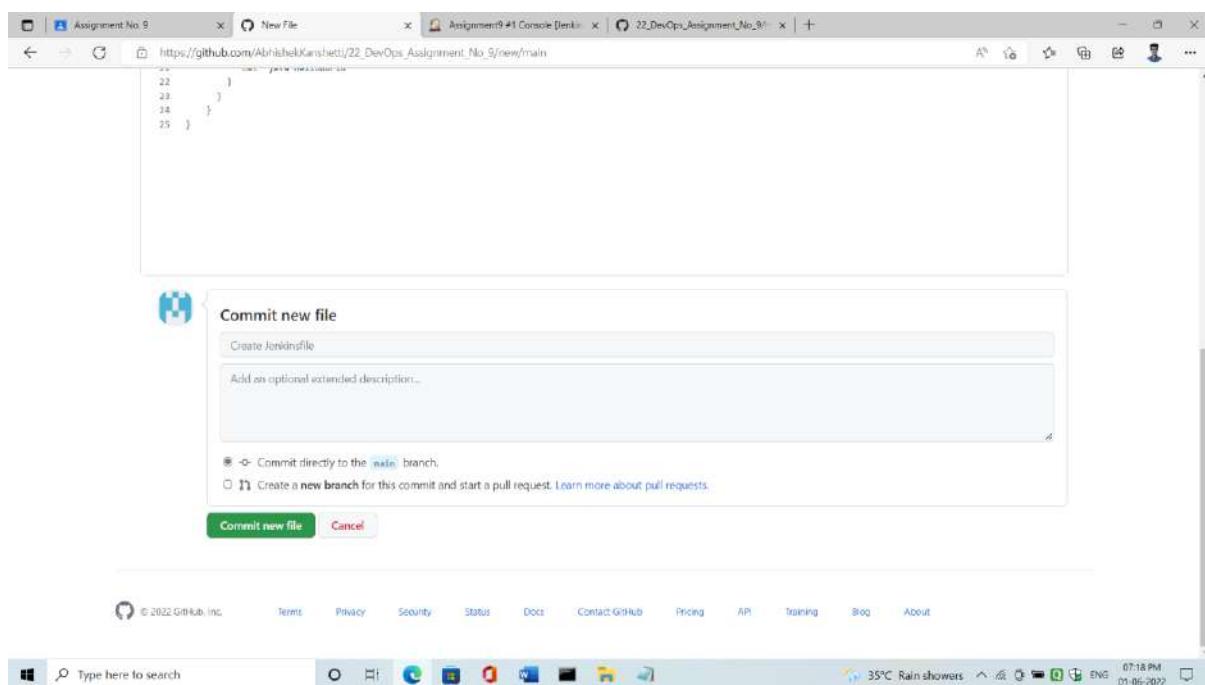
ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.



```
1 pipeline
2 {
3     agent any
4
5     stages
6     [
7         stage('Build')
8         {
9             steps
10            [
11                bat 'javac HelloWorld.java'
12                bat 'java -version'
13            ]
14        }
15    }
16
17    stage('Run')
18    {
19        steps
20        [
21            bat 'java HelloWorld'
22        ]
23    }
24 }
25 }
```

Committing Jenkinsfile as below: -



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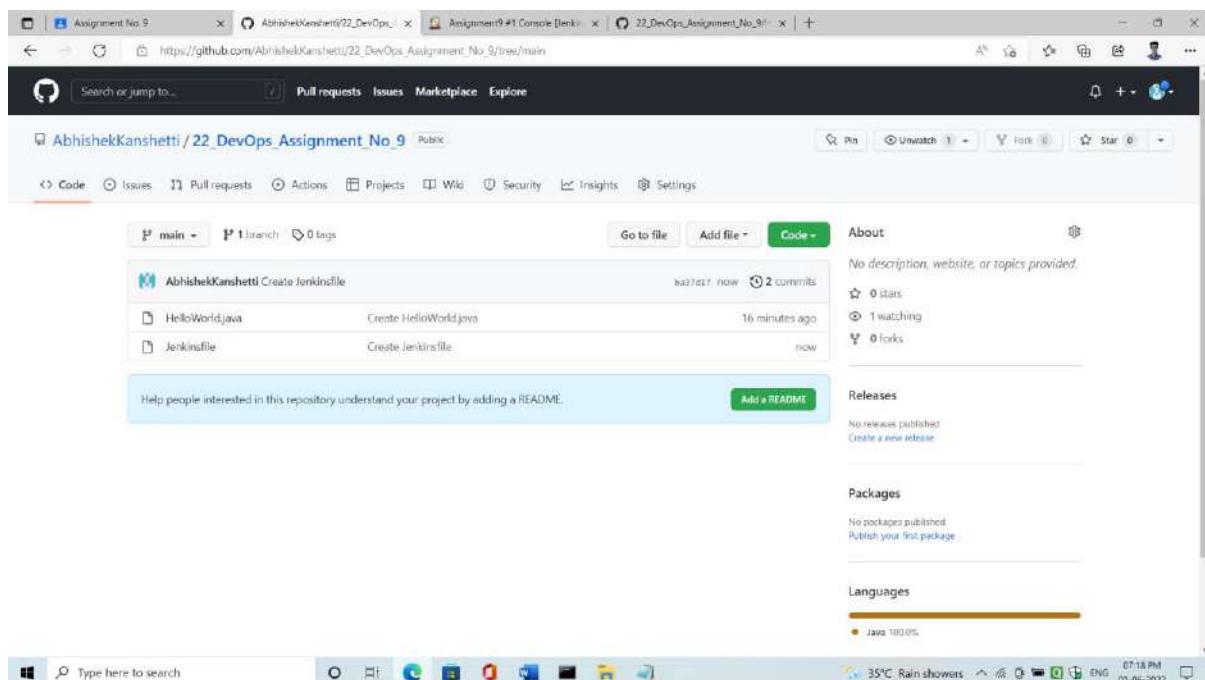
Name: Abhishek Basavraj Kanshetti

Roll No: 22

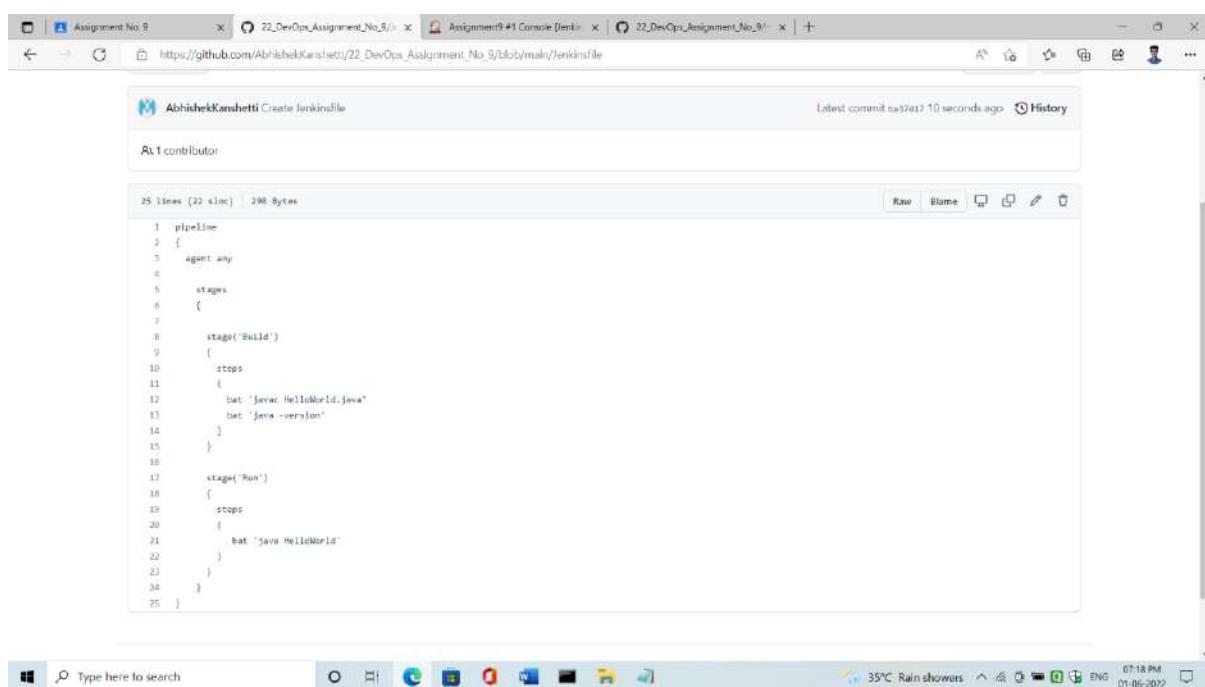
ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Added Jenkinsfile successfully as below: -



Jenkinsfile as follow: -



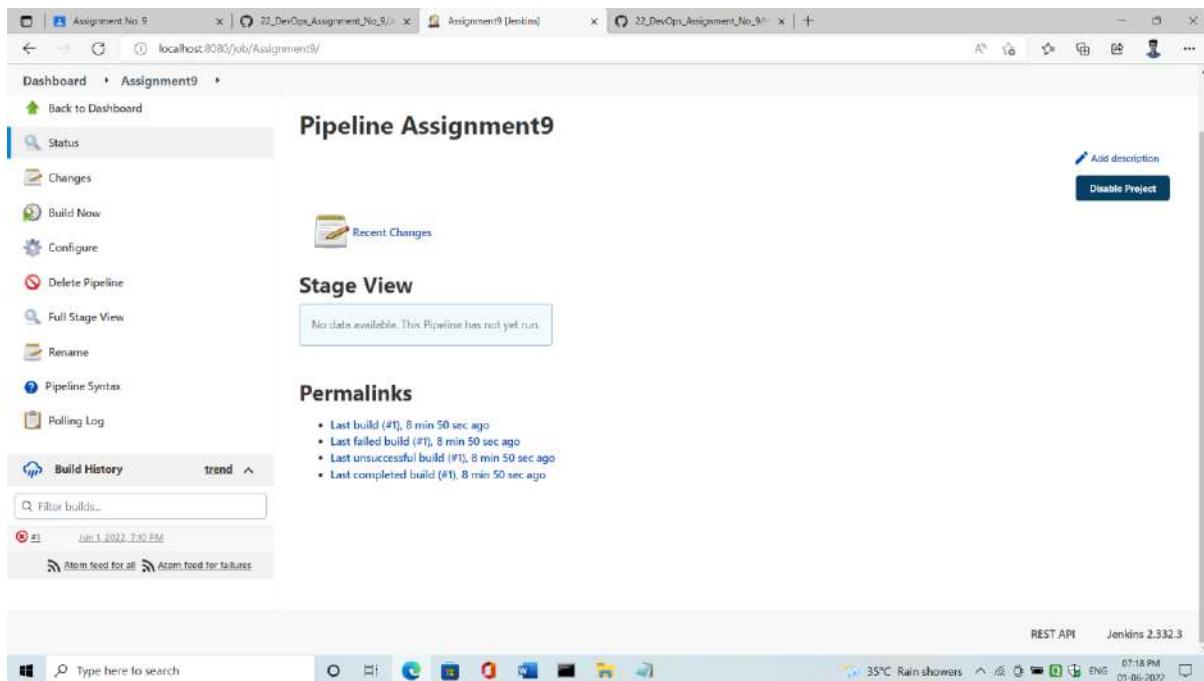
WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
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DEVOPS

Name: Abhishek Basavraj Kanshetti

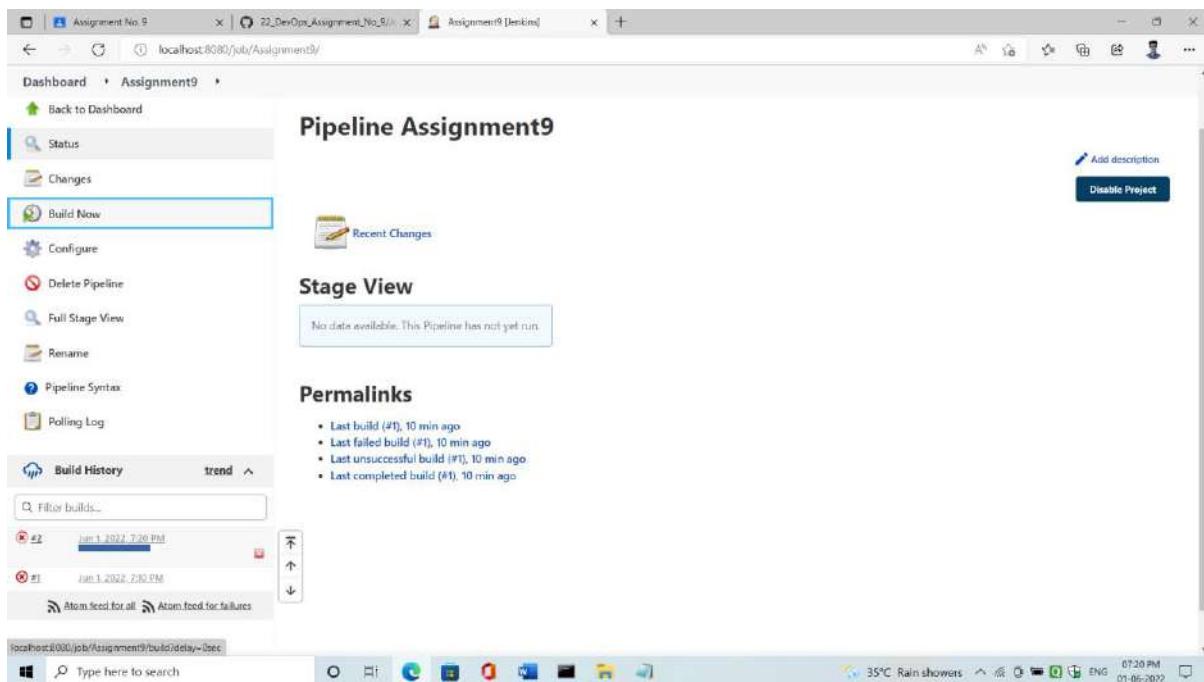
Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.



Now New Build will be generated as below:-



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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Our Build is generated and Stage View will be generated as below: -

Pipeline Assignment9

Stage View

Declarative: Checkout SCM	Build	Run
1s	3s	782ms
Jun 01 1920 No Changes		
Jun 01 1919 No Changes		

Permalinks

- Last build (#1), 10 min ago
- Last failed build (#1), 10 min ago
- Last unsuccessful build (#1), 10 min ago
- Last completed build (#1), 10 min ago

Console Output as below: -

Console Output

```

Started by user Abhishek Kanshetti
Obtained Jenkinsfile from git https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_9.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\Users\abish\jenkins\workspace\Assignment9
[Pipeline] [
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_9.git
> C:\Program Files\Git\bin\git.exe init C:\Users\abish\jenkins\workspace\Assignment9 # timeout=10
Fetching upstream changes from https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_9.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # git version 2.35.1.windows.2
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_9.git
refs/heads/* refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_9.git # timeout=10
> C:\Program Files\Git\bin\git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision ba37d17df20f52f5f3d707f7ac5828a75d6100 (refs/remotes/origin/main)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f ba37d17df20f52f5f3d707f7ac5828a75d6100 # timeout=10
Commit message: "Create Jenkinsfile"

```

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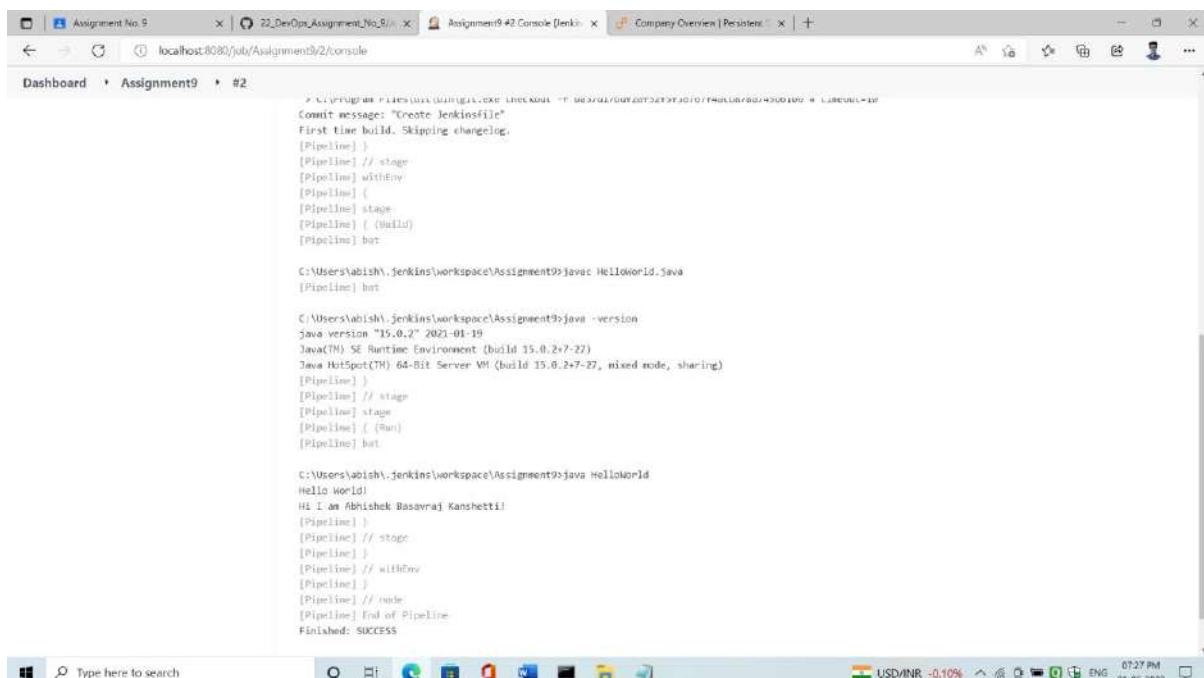
Name: Abhishek Basavraj Kanshetti

Roll No: 22

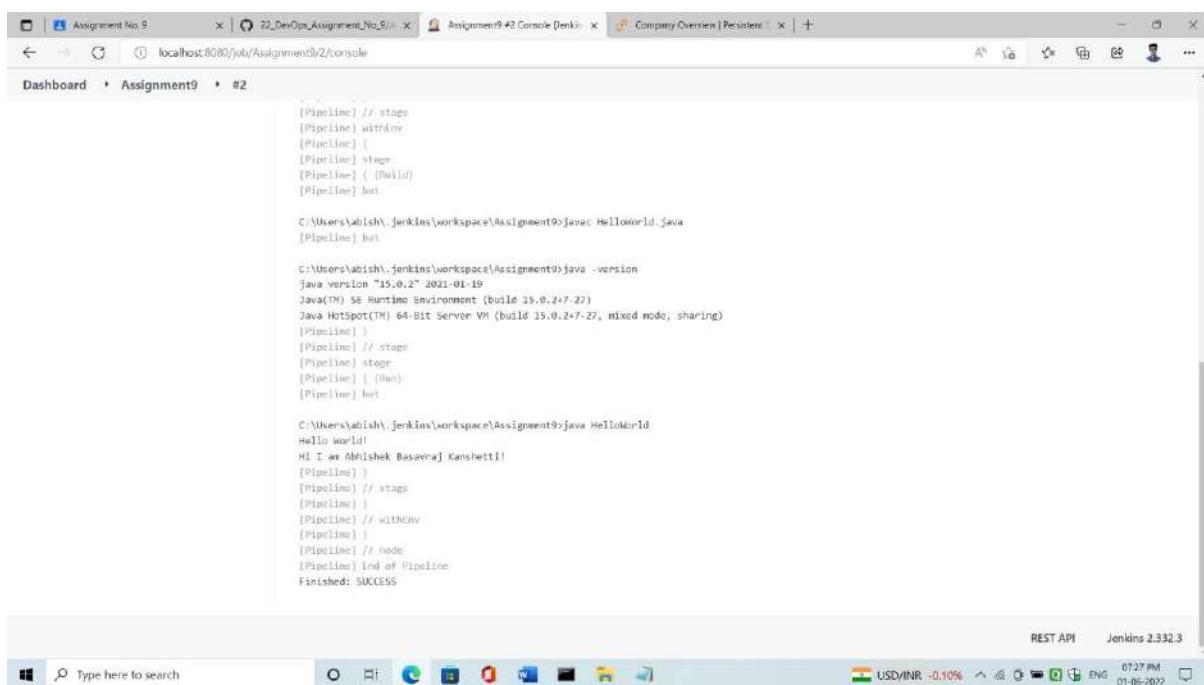
ASSIGNMENT NO: 9

Title: Create a Jenkins pipeline to execute any Java Application.

Here We can see our output of Helloworld.java file as below: -



```
C:\Users\Abish\jenkins\workspace\Assignment9>javac HelloWorld.java
[Pipeline] 
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] bat
[Pipeline] 
C:\Users\Abish\jenkins\workspace\Assignment9>java -version
Java version "15.0.2" 2021-01-19
Java(TM) SE Runtime Environment (build 15.0.2+7-22)
Java HotSpot(TM) 64-Bit Server VM (build 15.0.2+7-22, mixed mode, sharing)
[Pipeline] 
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Run)
[Pipeline] bat
[Pipeline] 
C:\Users\Abish\jenkins\workspace\Assignment9>java HelloWorld
Hello World!
Hi I am Abhishek Basavraj Kanshetti!
[Pipeline] 
[Pipeline] // stage
[Pipeline] 
[Pipeline] // withEnv
[Pipeline] 
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



```
C:\Users\Abish\jenkins\workspace\Assignment9>javac HelloWorld.java
[Pipeline] 
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] bat
[Pipeline] 
C:\Users\Abish\jenkins\workspace\Assignment9>java -version
Java version "15.0.2" 2021-01-19
Java(TM) SE Runtime Environment (build 15.0.2+7-22)
Java HotSpot(TM) 64-Bit Server VM (build 15.0.2+7-22, mixed mode, sharing)
[Pipeline] 
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Run)
[Pipeline] bat
[Pipeline] 
C:\Users\Abish\jenkins\workspace\Assignment9>java HelloWorld
Hello World!
Hi I am Abhishek Basavraj Kanshetti!
[Pipeline] 
[Pipeline] // stage
[Pipeline] 
[Pipeline] // withEnv
[Pipeline] 
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

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DEVOPS**

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Aim:

Create a Jenkins pipeline to build and push Docker Image.

Problem statement:

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.

Submit pdf file with all steps and screenshots.

Output Screenshots:

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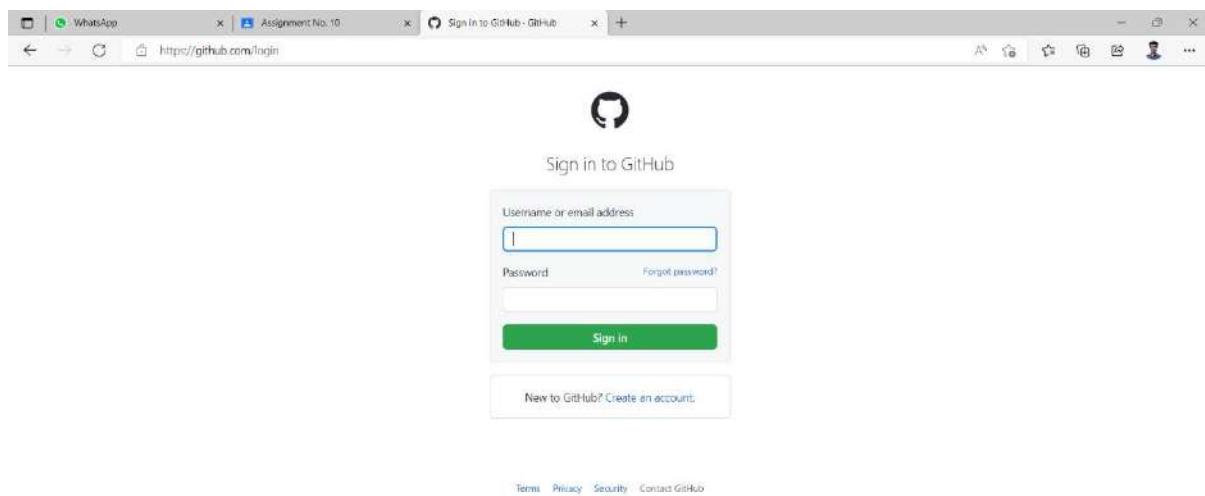
Name: Abhishek Basavraj Kanshetti

Roll No: 22

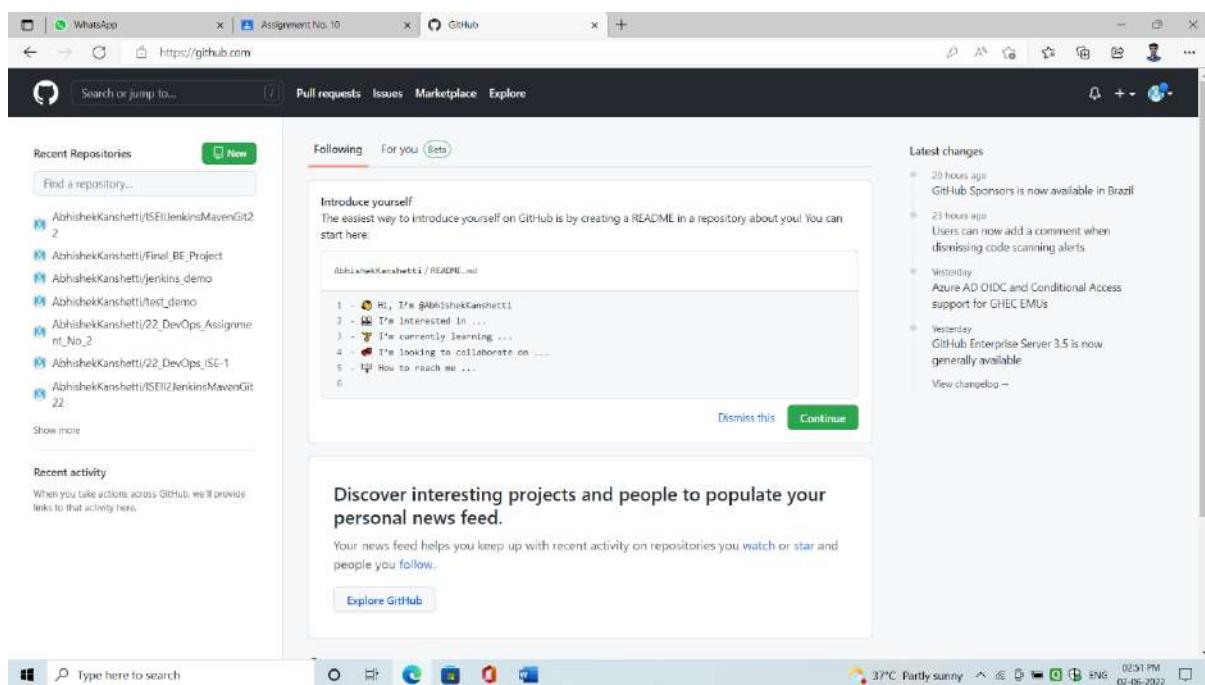
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

First Sign In to GitHub as below: -



Signed to GitHub as below: -



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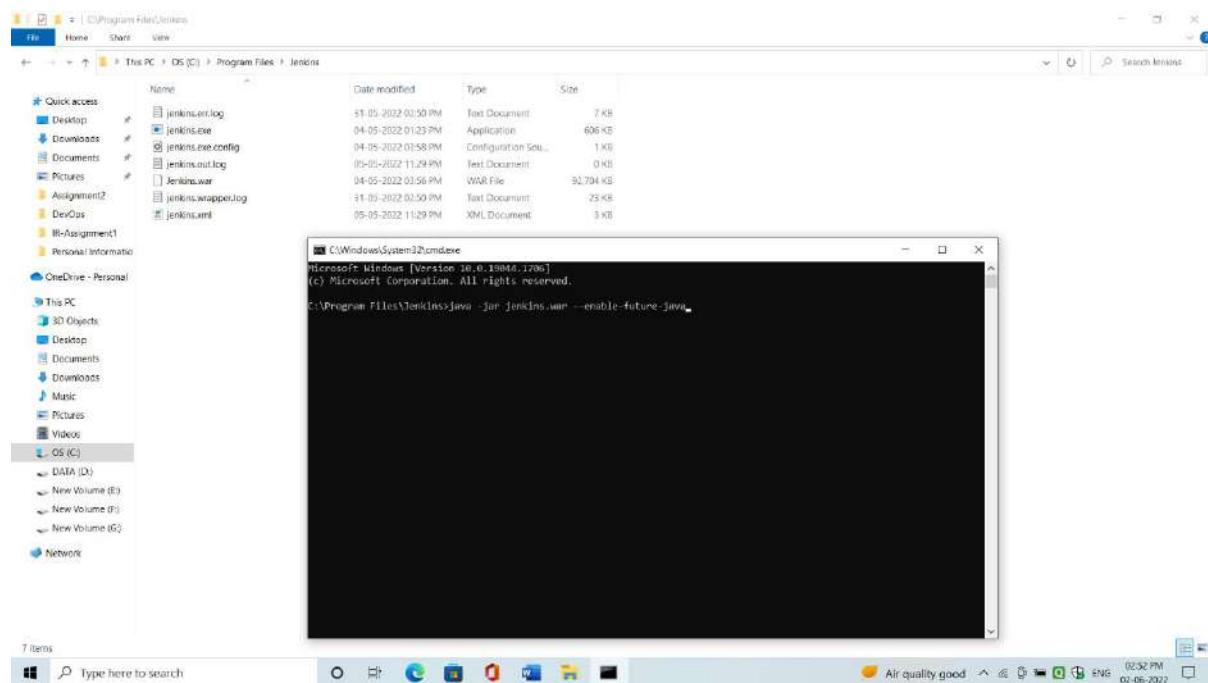
Name: Abhishek Basavraj Kanshetti

Roll No: 22

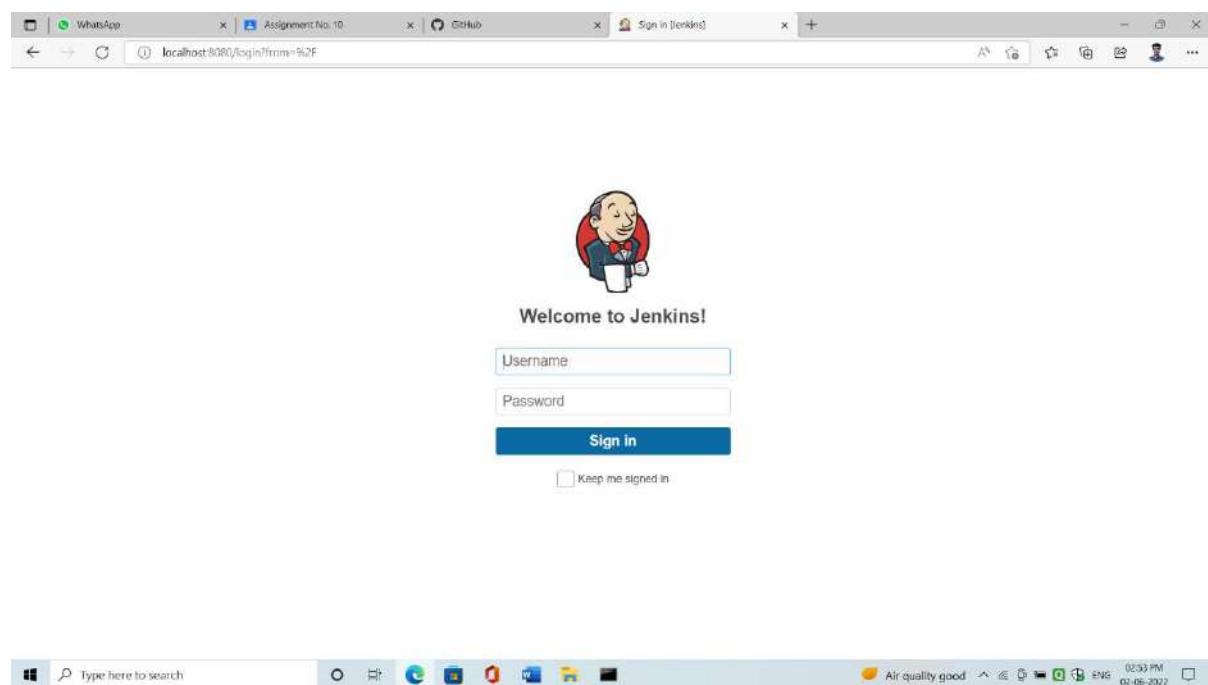
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Starting Jenkins by giving following Command: -



Login to Jenkins as below: -



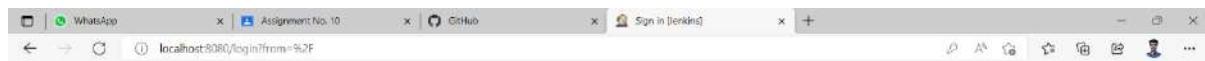
WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



Logged In Successfully as below: -

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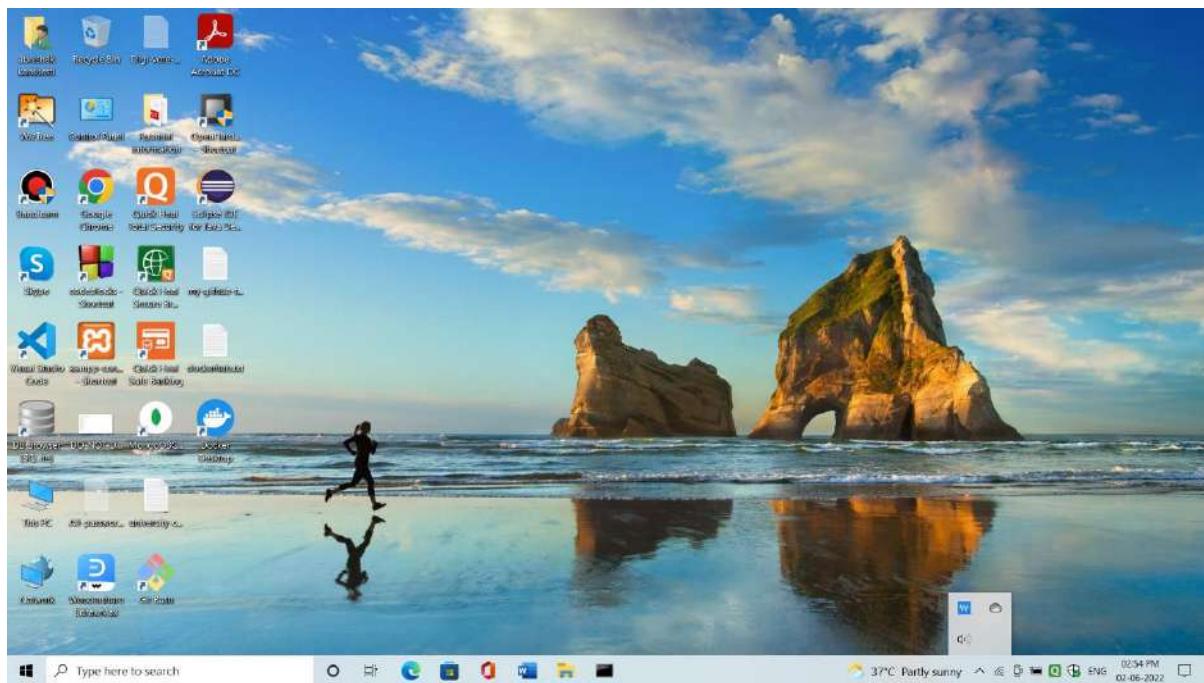
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Starting the Docker as below: -



Docker Starting and Running as below: -



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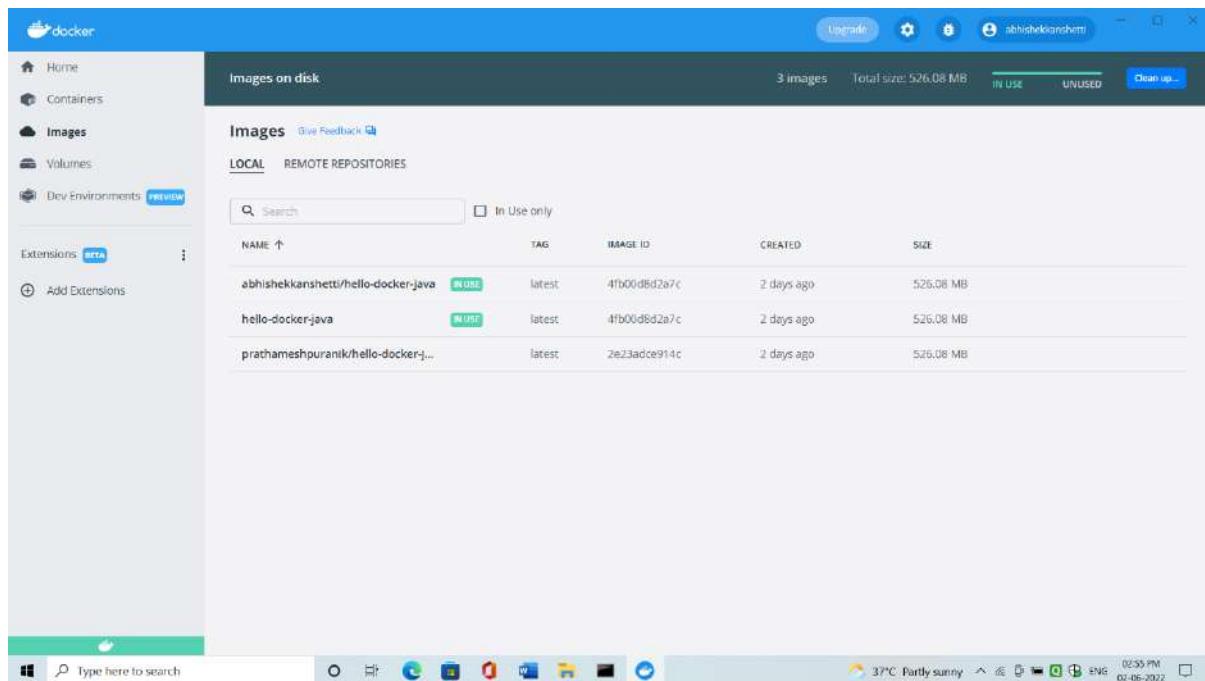
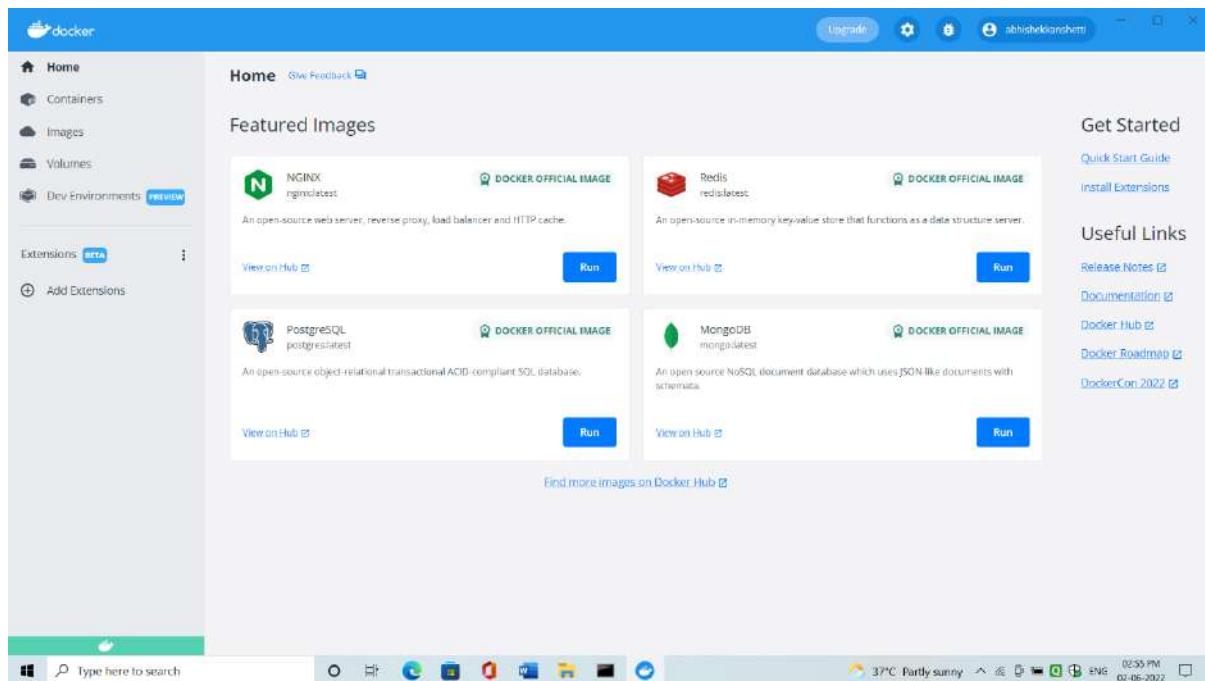
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Docker Running as below: -



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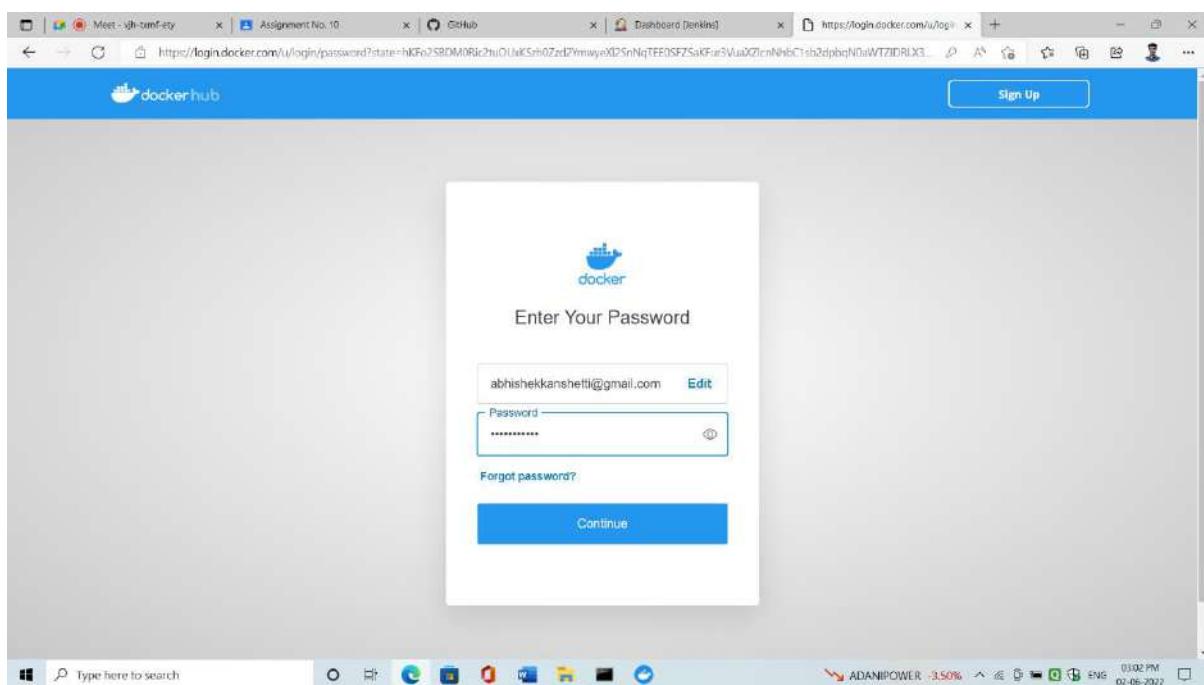
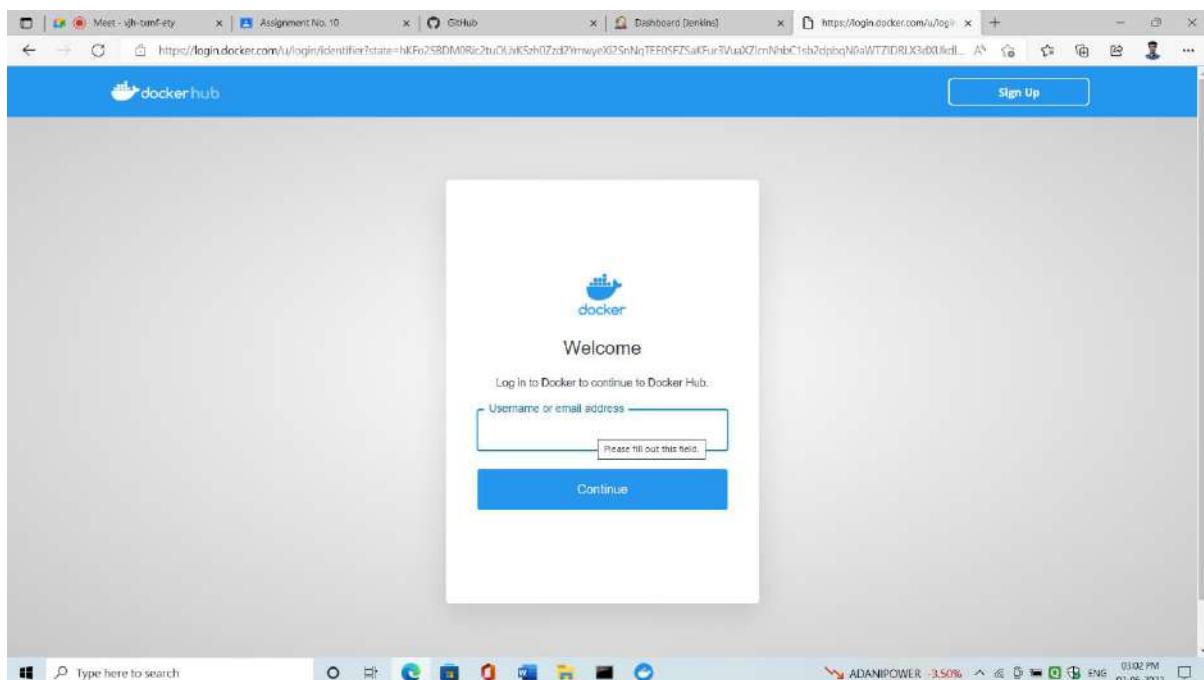
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Login to Docker hub as below:



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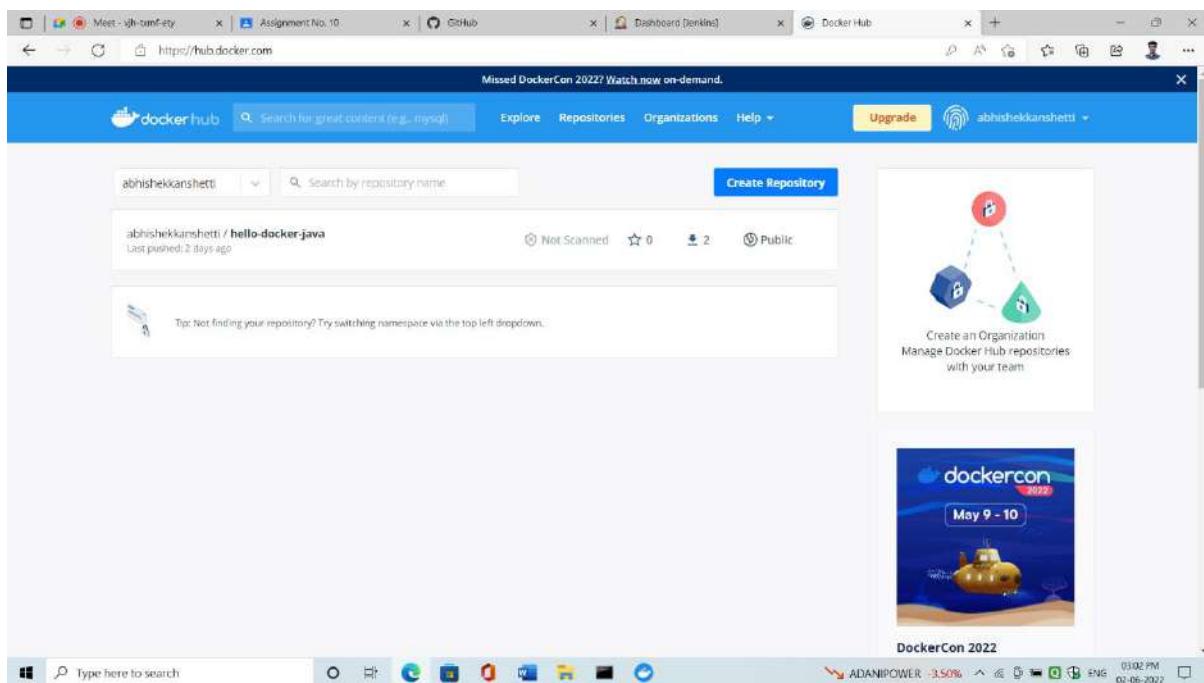
Name: Abhishek Basavraj Kanshetti

Roll No: 22

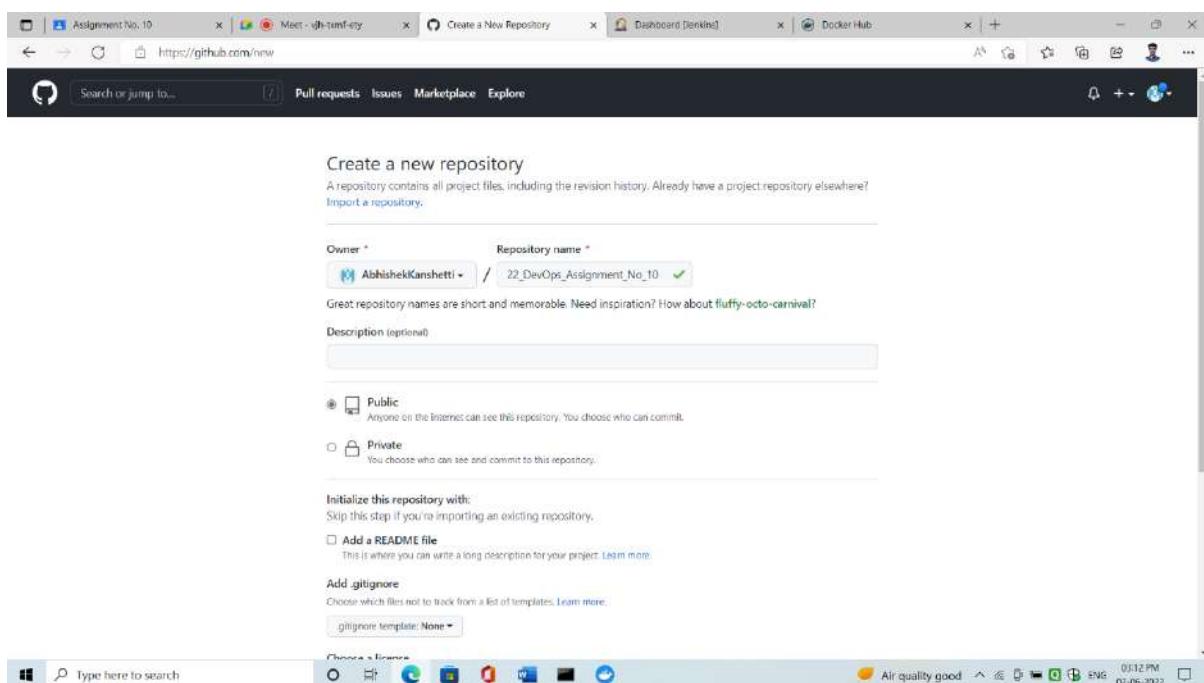
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Logged In Successfully to Docker Hub as below:-



Creating a New Repository on GitHub as below: -



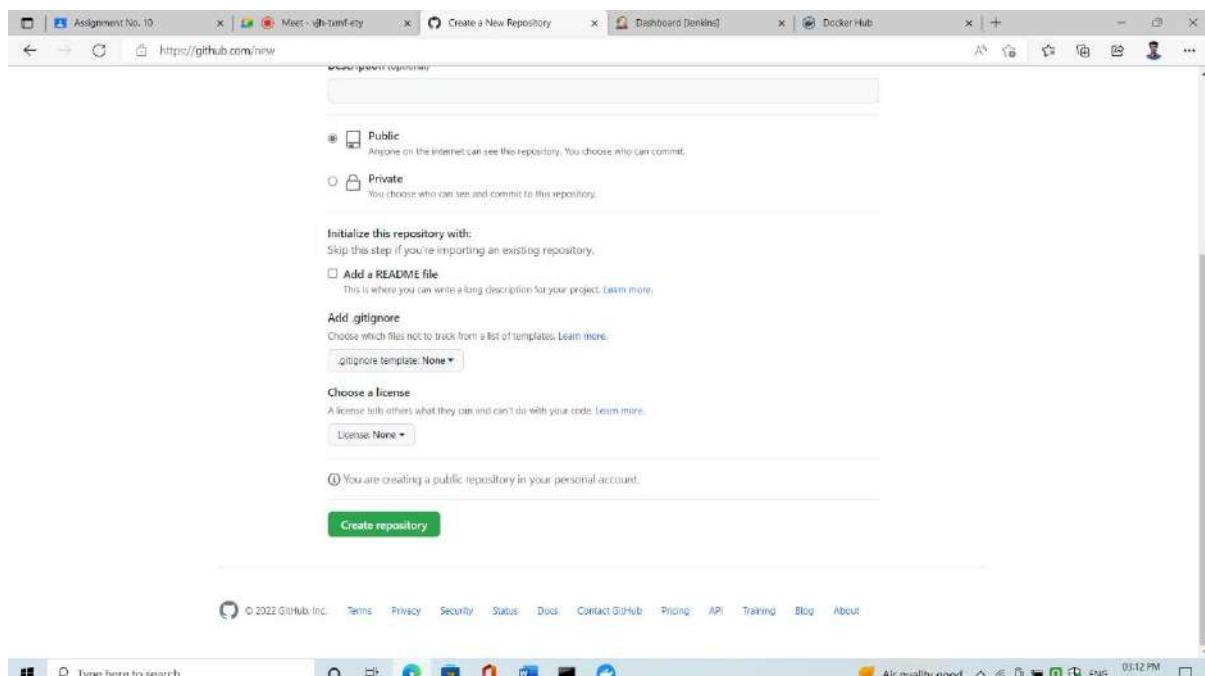
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Name: Abhishek Basavraj Kanshetti

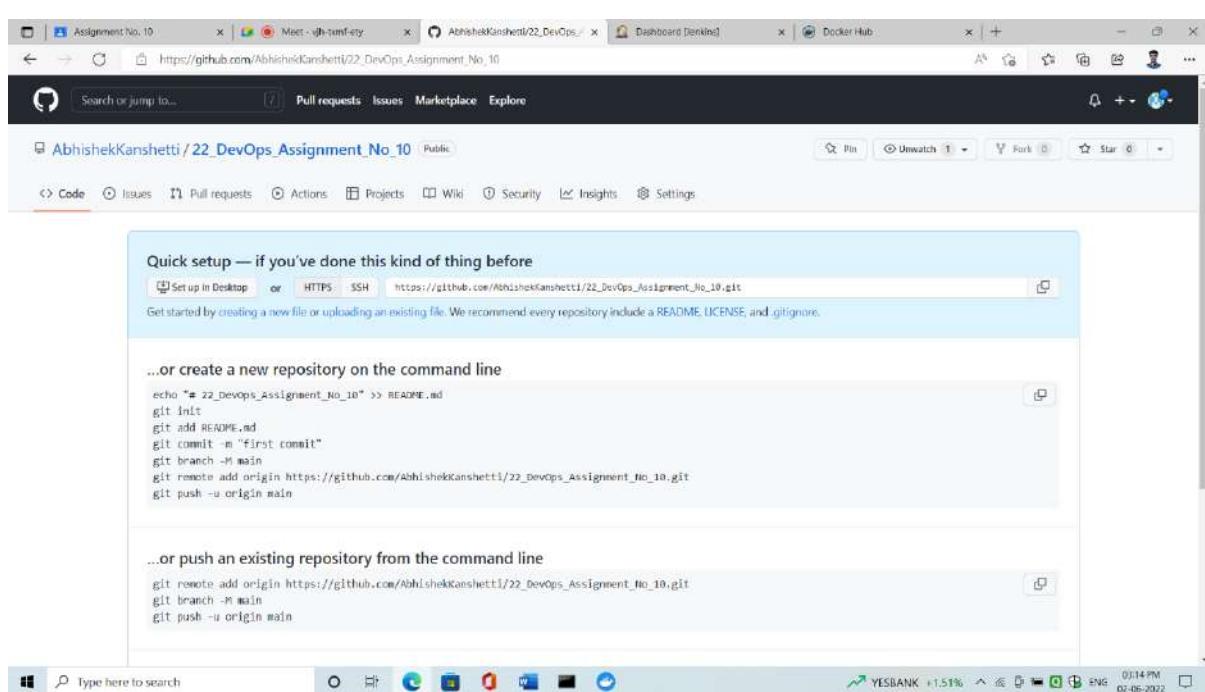
Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



Created Repository Successfully as below: -



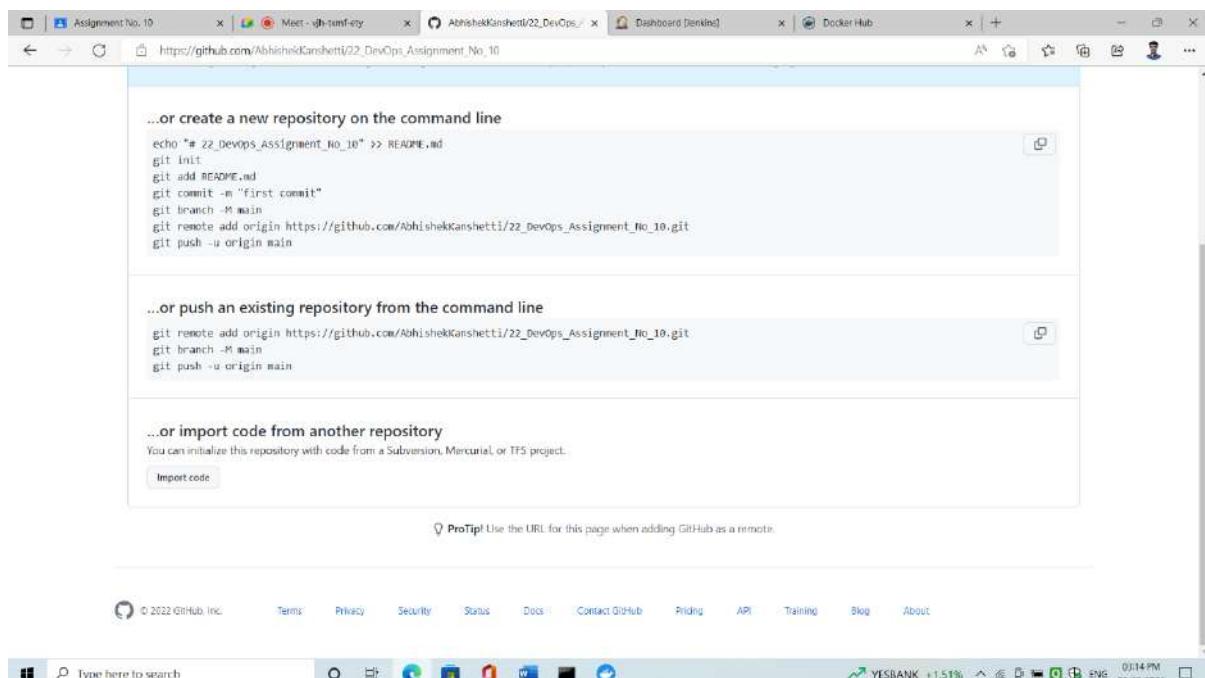
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Name: Abhishek Basavraj Kanshetti

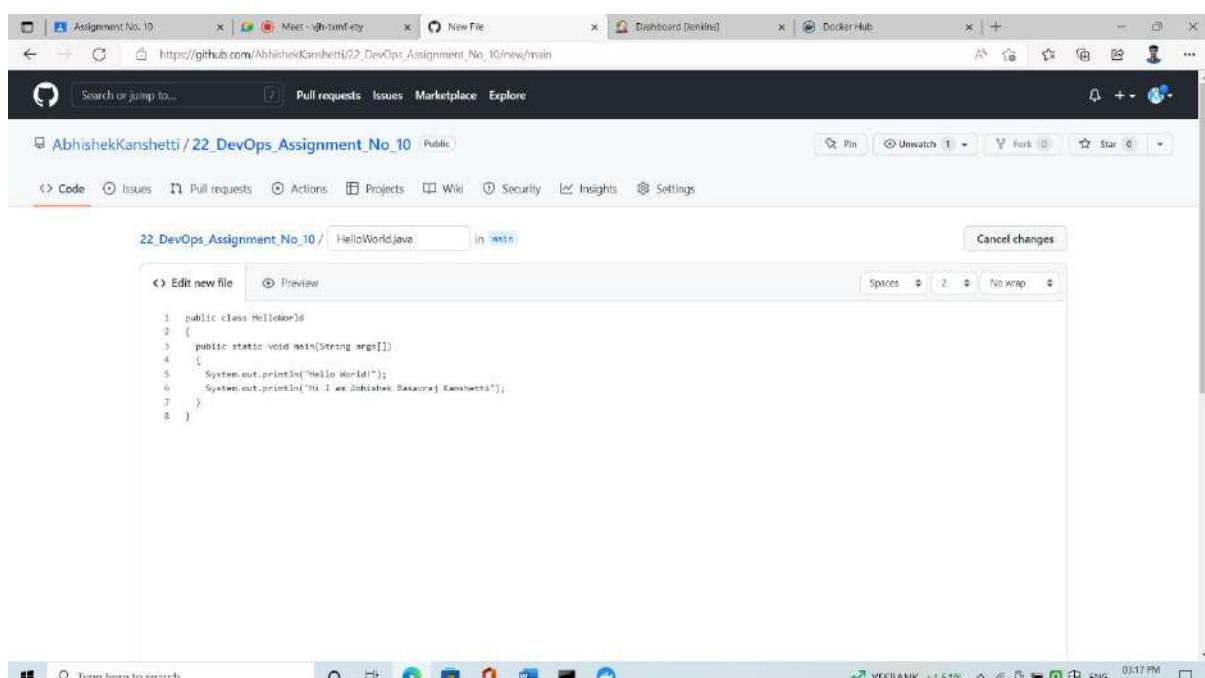
Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



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



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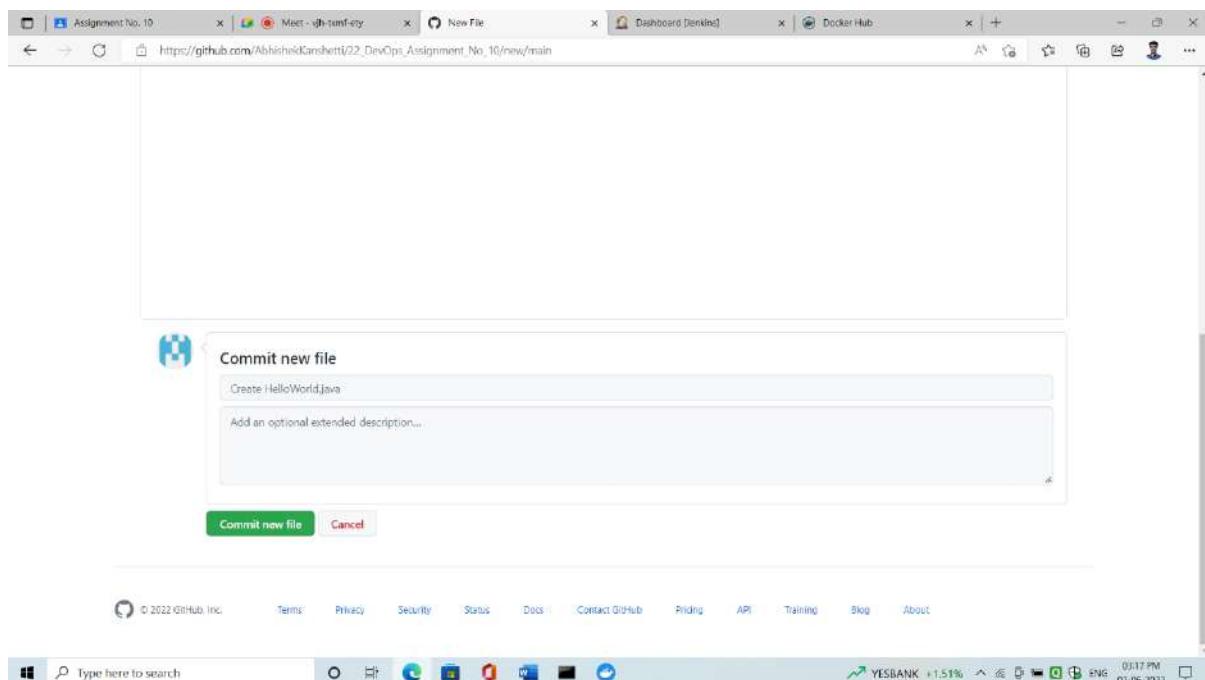
Name: Abhishek Basavraj Kanshetti

Roll No: 22

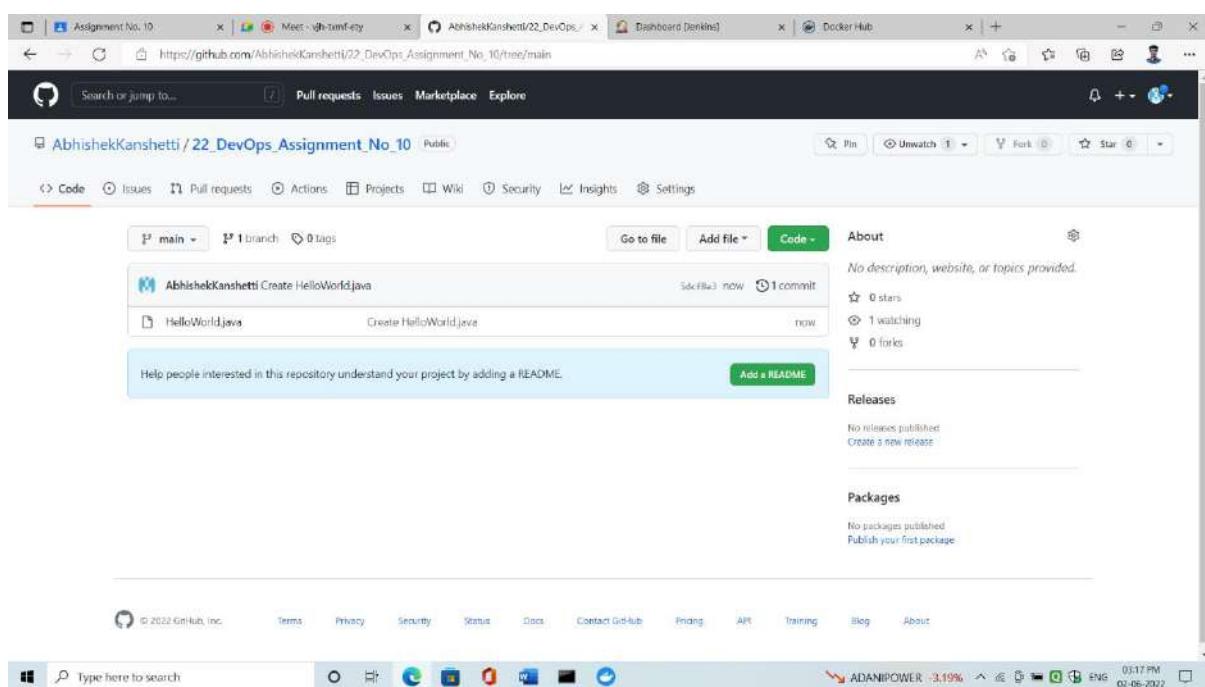
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Committing the file as below: -



Committed file as below: -



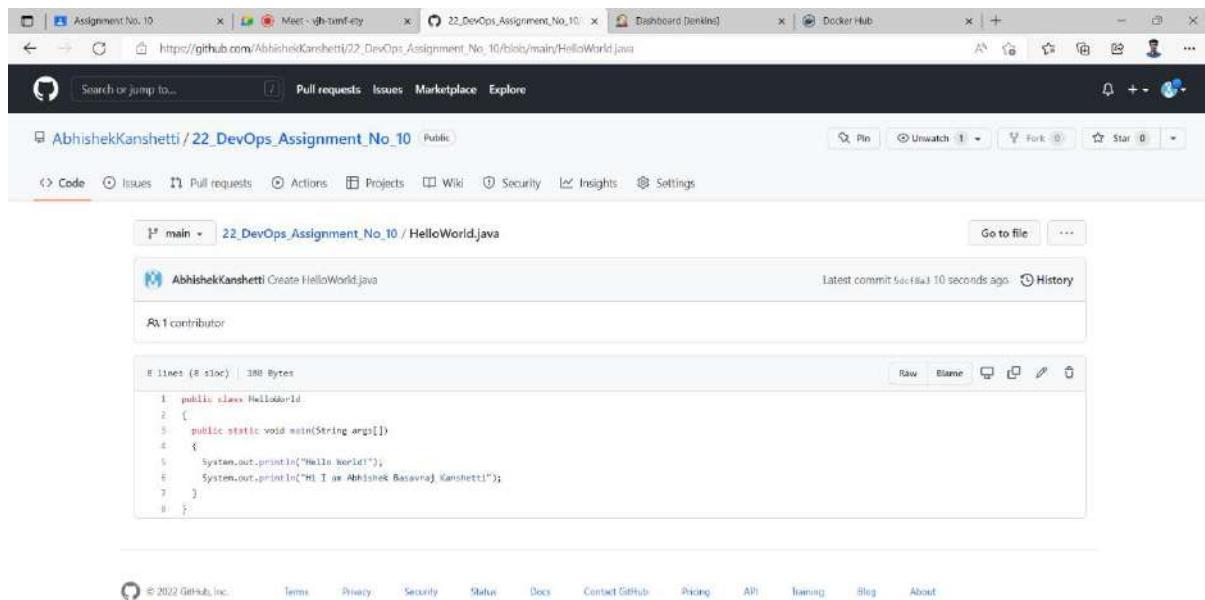
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Roll No: 22

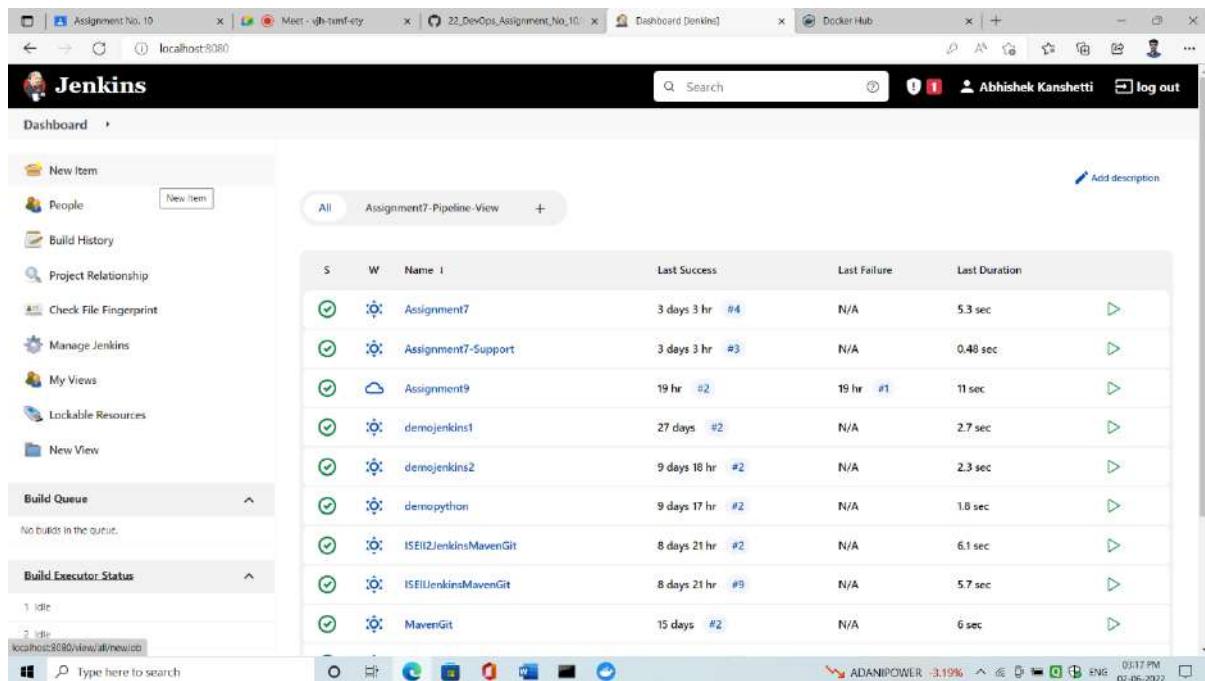
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



The screenshot shows a browser window with several tabs open. The active tab is 'Assignment No. 10' on GitHub, specifically the 'HelloWorld.java' file. The code in the file is:

```
1 public class HelloWorld {
2     public static void main(String args[])
3     {
4         System.out.println("Hello World");
5         System.out.println("Hi I am Abhishek Basavraj Kanshetti");
6     }
7 }
```



S	W	Name	Last Success	Last Failure	Last Duration
✓	⌚	Assignment7	3 days 3 hr #4	N/A	5.3 sec
✓	⌚	Assignment7-Support	3 days 3 hr #3	N/A	0.48 sec
✓	☁️	Assignment9	19 hr #2	19 hr #1	11 sec
✓	⌚	demojenkins1	27 days #2	N/A	2.7 sec
✓	⌚	demojenkins2	9 days 18 hr #2	N/A	2.3 sec
✓	⌚	demopython	9 days 17 hr #2	N/A	1.8 sec
✓	⌚	ISEII2JenkinsMavenGit	8 days 21 hr #2	N/A	6.1 sec
✓	⌚	ISEIIJenkinsMavenGit	8 days 21 hr #9	N/A	5.7 sec
✓	⌚	MavenGit	15 days #2	N/A	6 sec

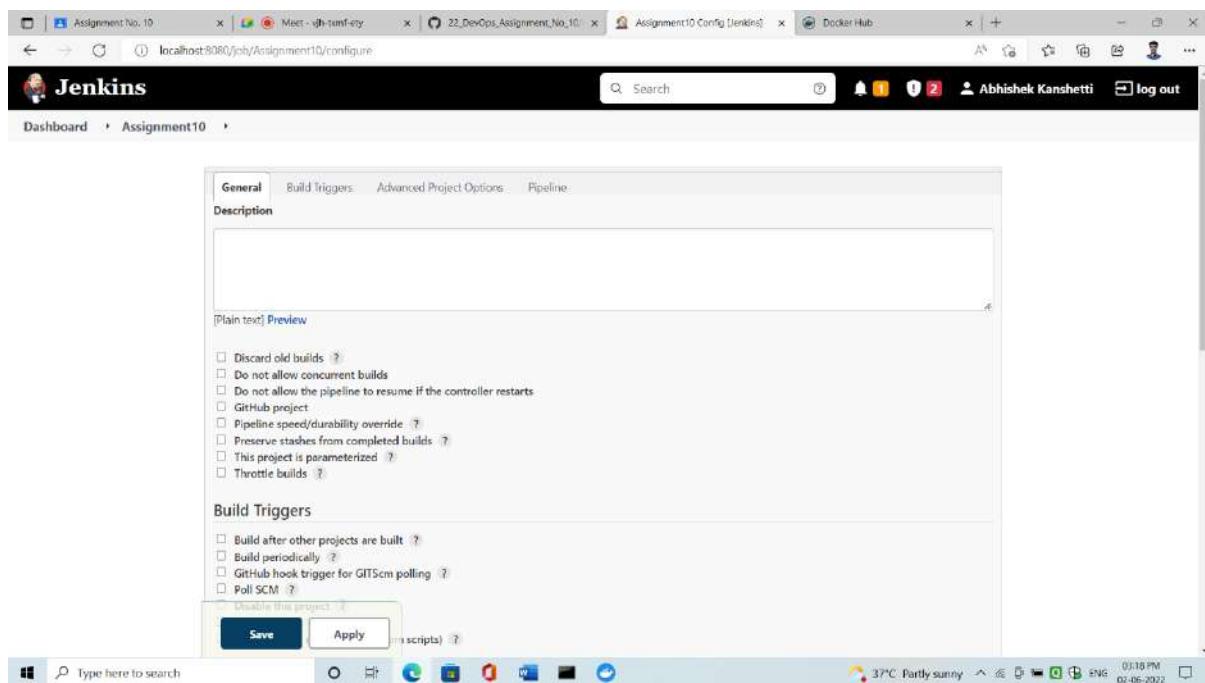
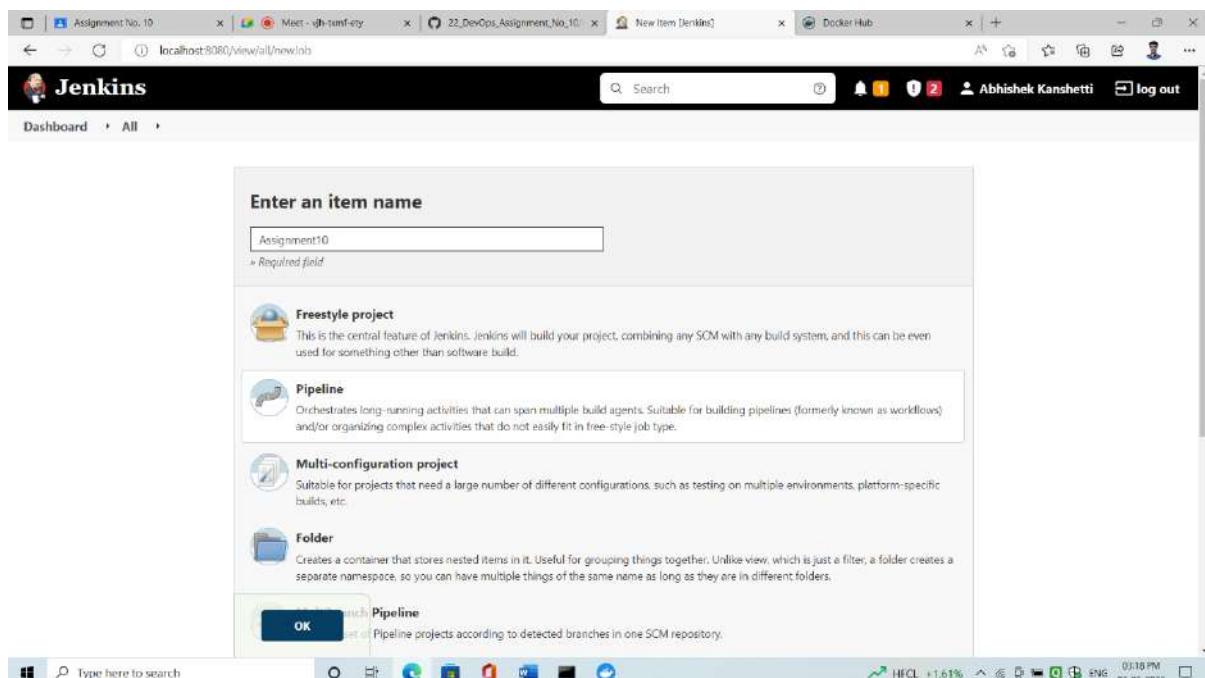
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.
Now we will Create a Jenkins Pipeline Job as below: -



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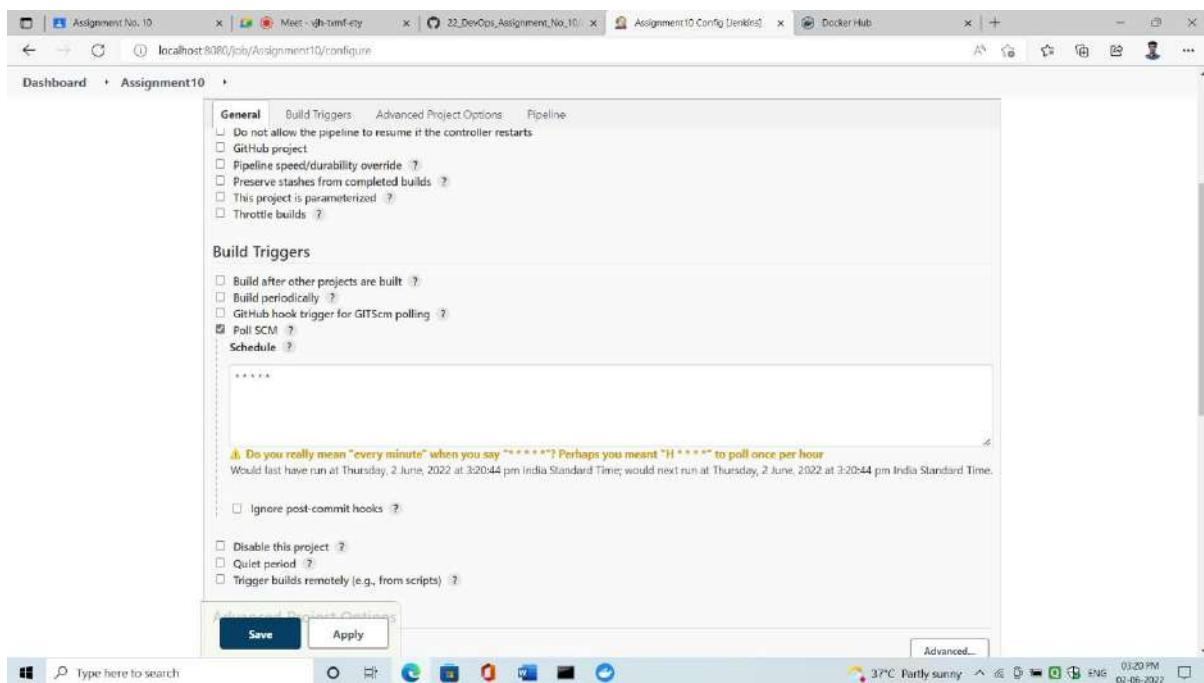
Name: Abhishek Basavraj Kanshetti

Roll No: 22

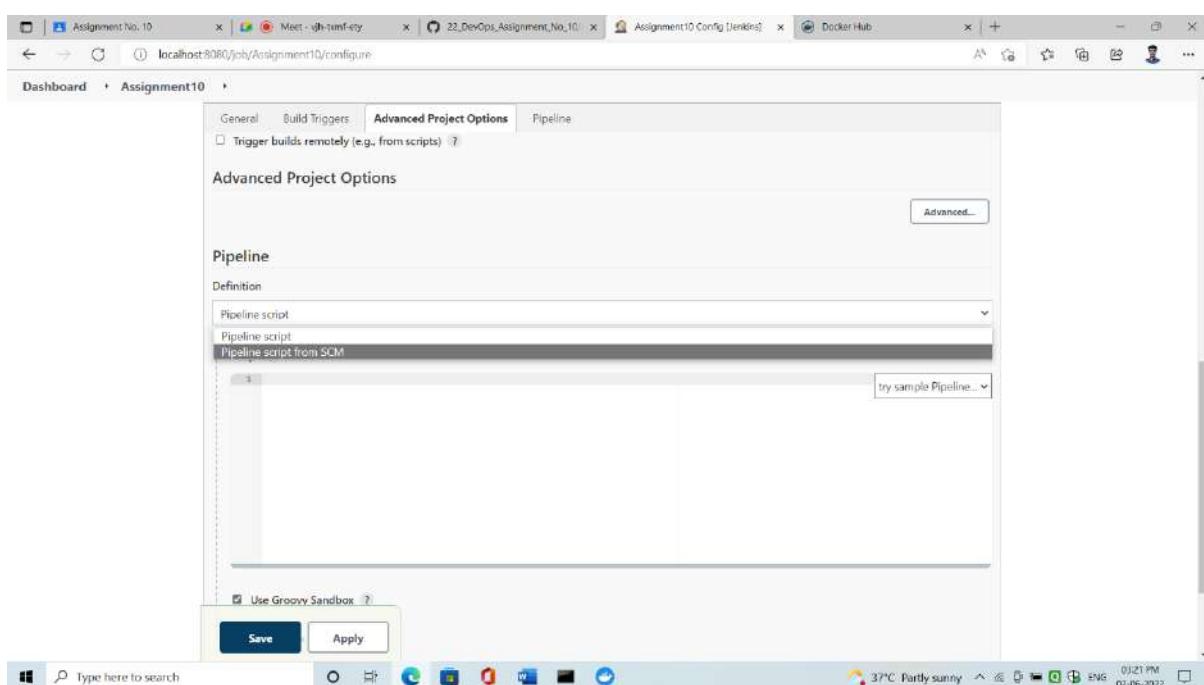
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

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



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



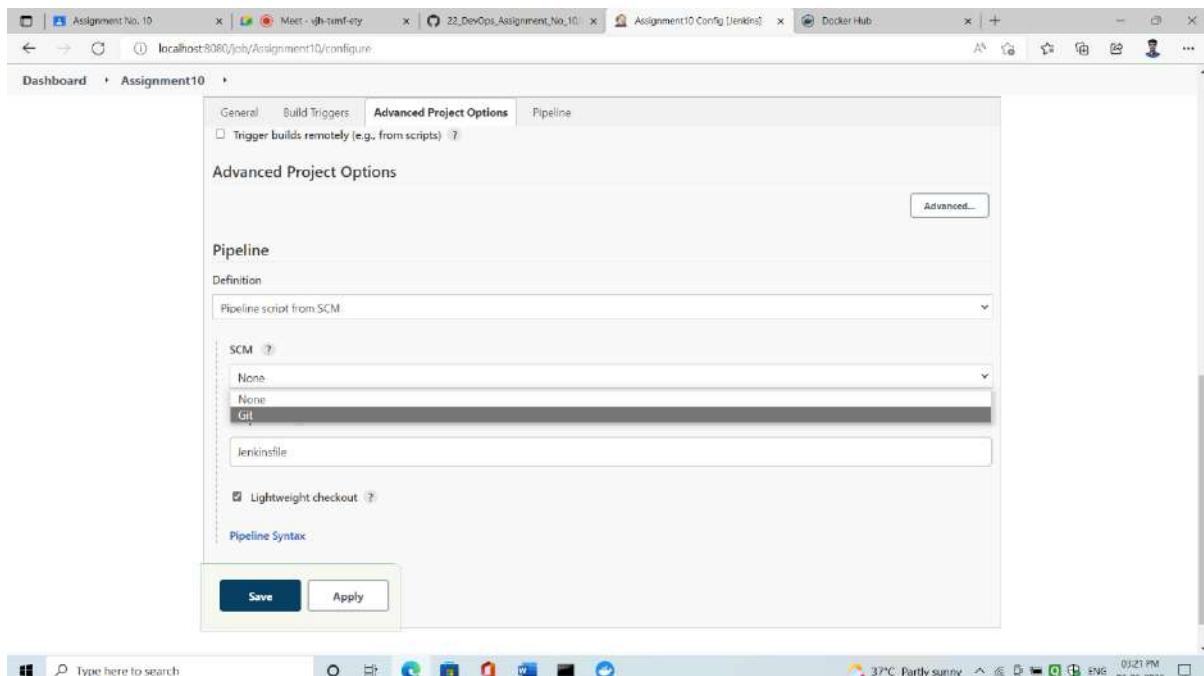
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Name: Abhishek Basavraj Kanshetti

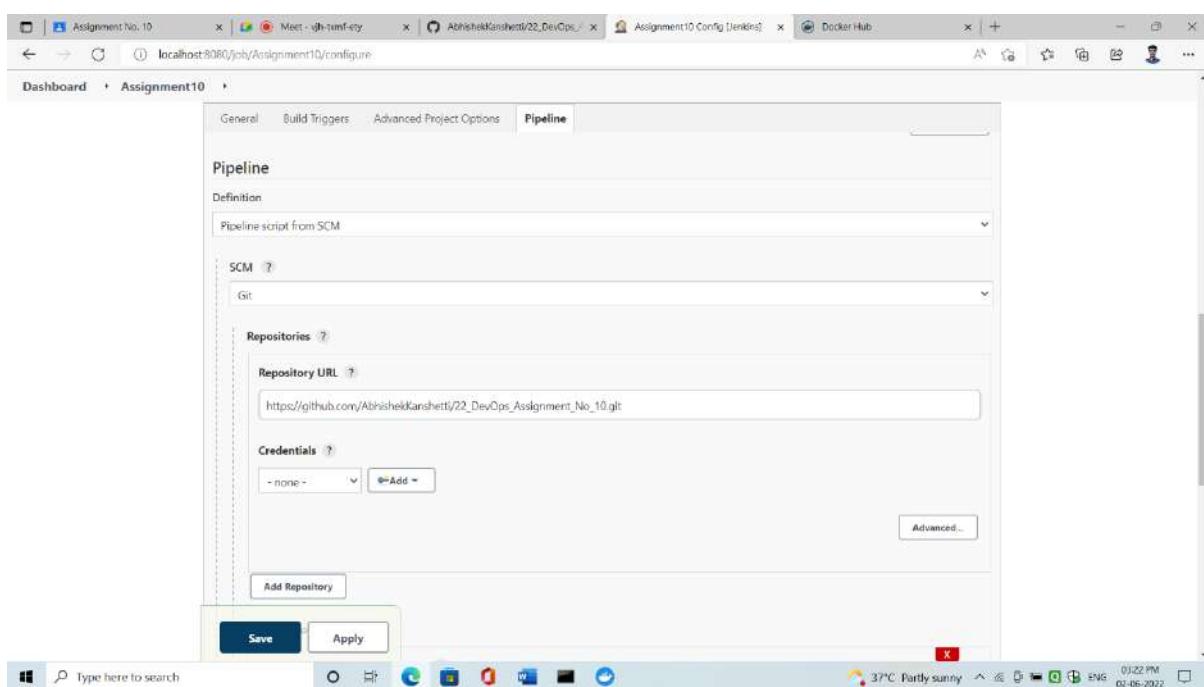
Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.
Then we will select git option as below: -



Entered the Git URL of Repository as below: -



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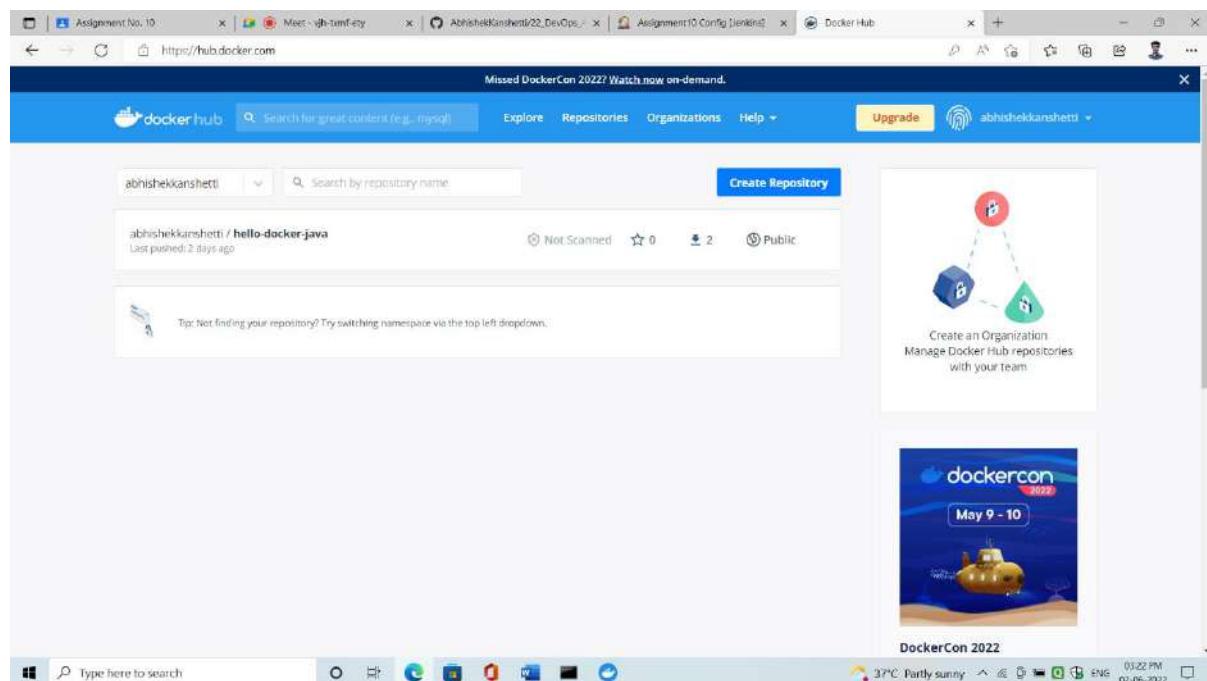
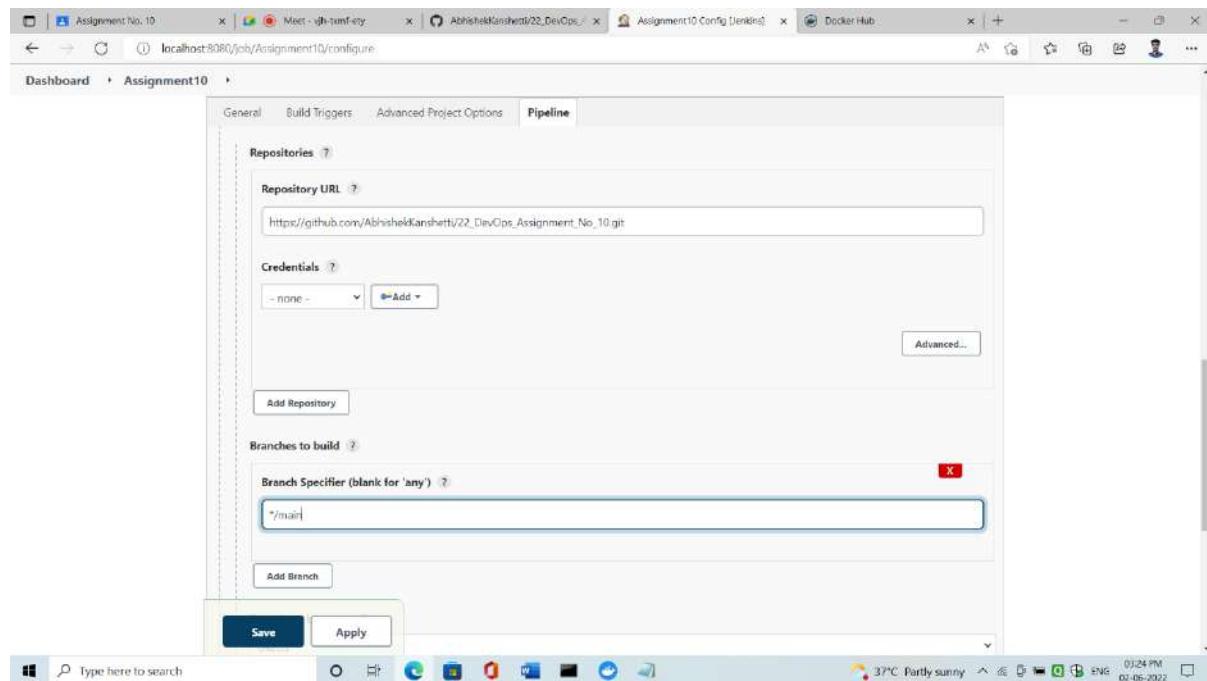
Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Entered Branch as Main as below and clicked on Apply and save:

=



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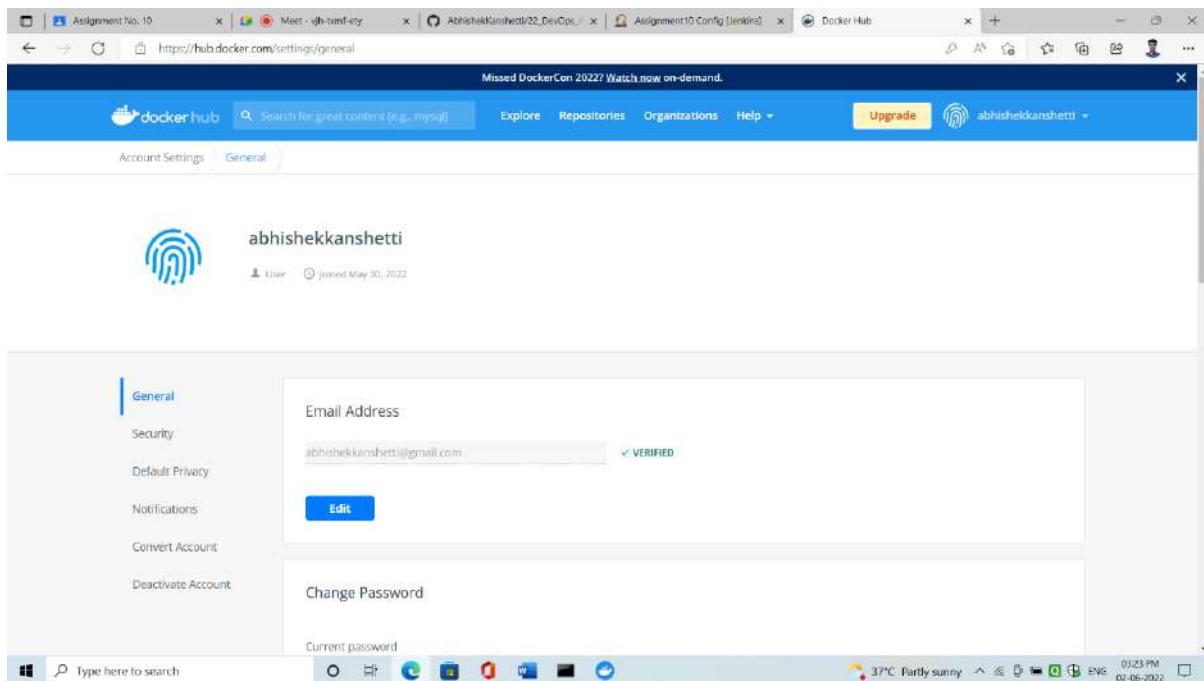
Name: Abhishek Basavraj Kanshetti

Roll No: 22

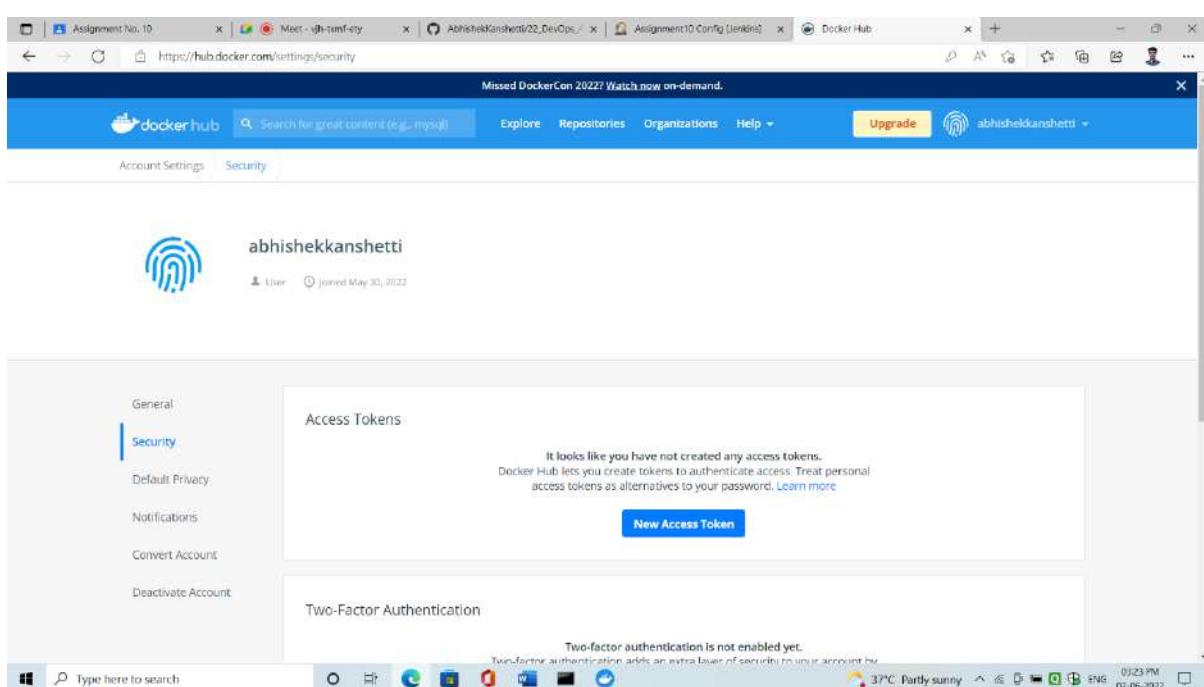
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

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



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



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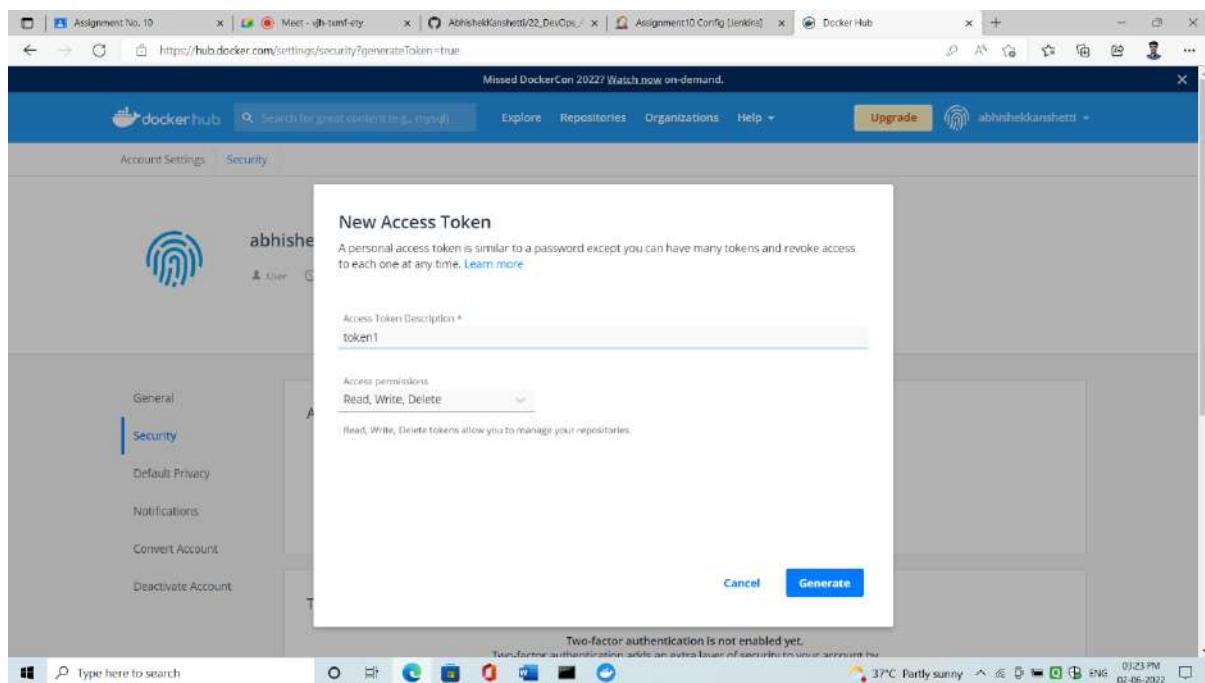
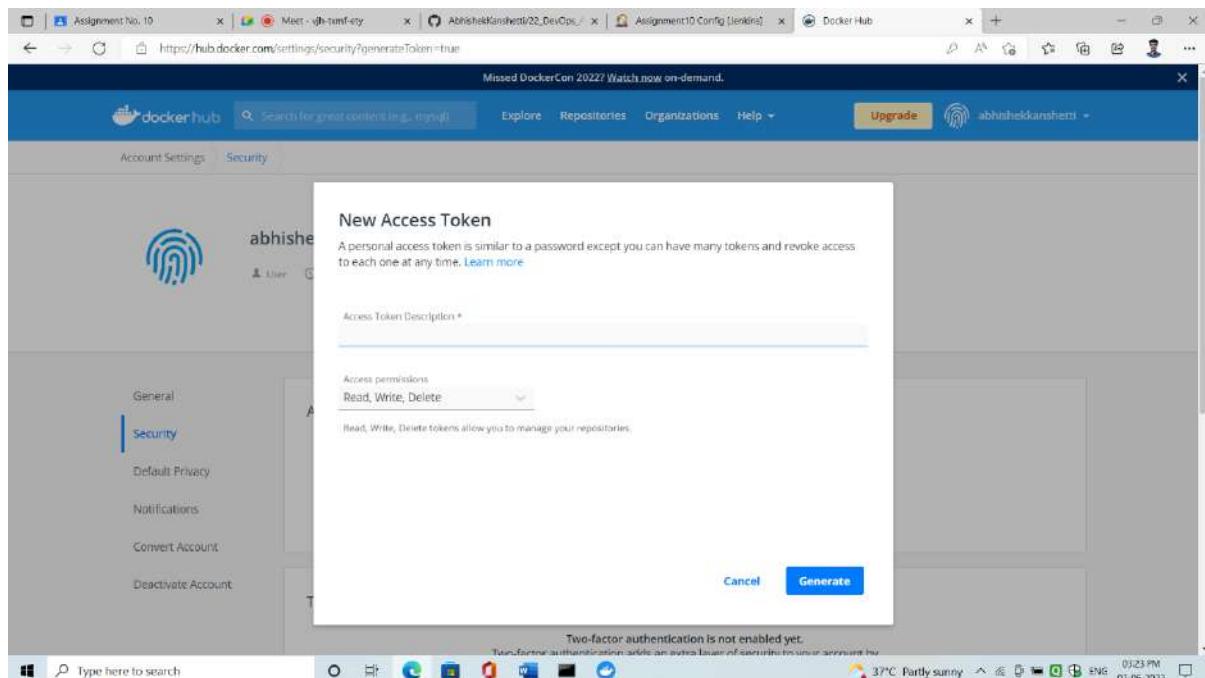
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Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

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



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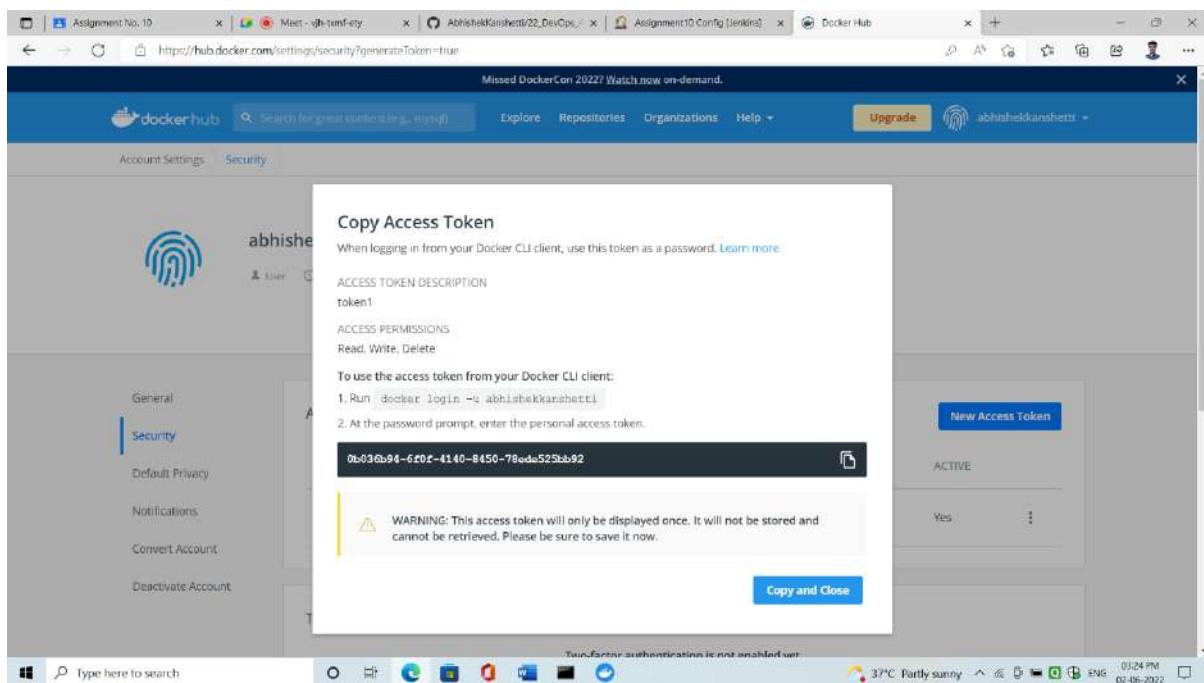
Name: Abhishek Basavraj Kanshetti

Roll No: 22

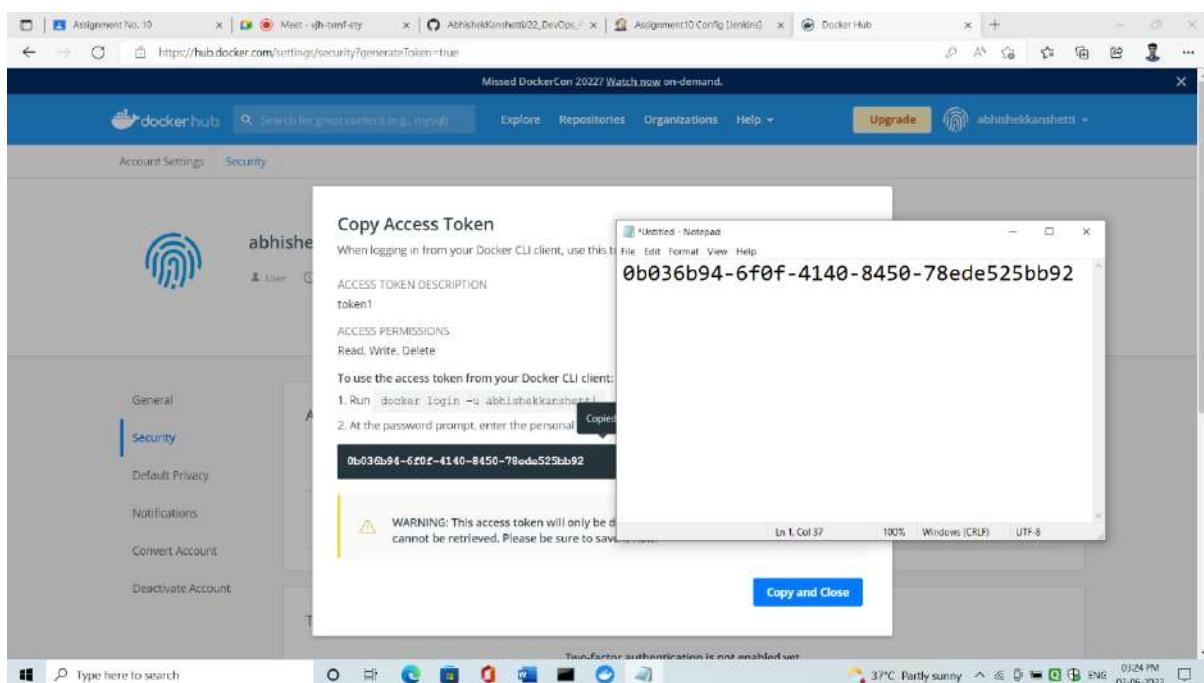
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Access Token is Generated as below: -



We will Copy that Token as below: -



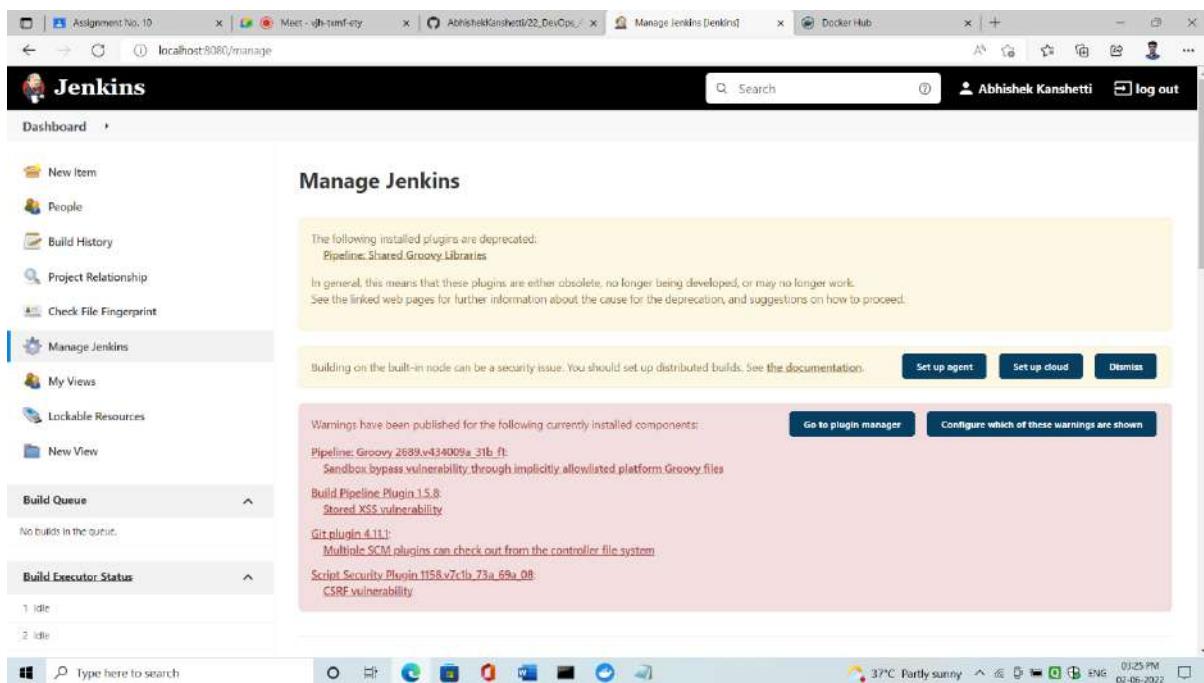
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Name: Abhishek Basavraj Kanshetti

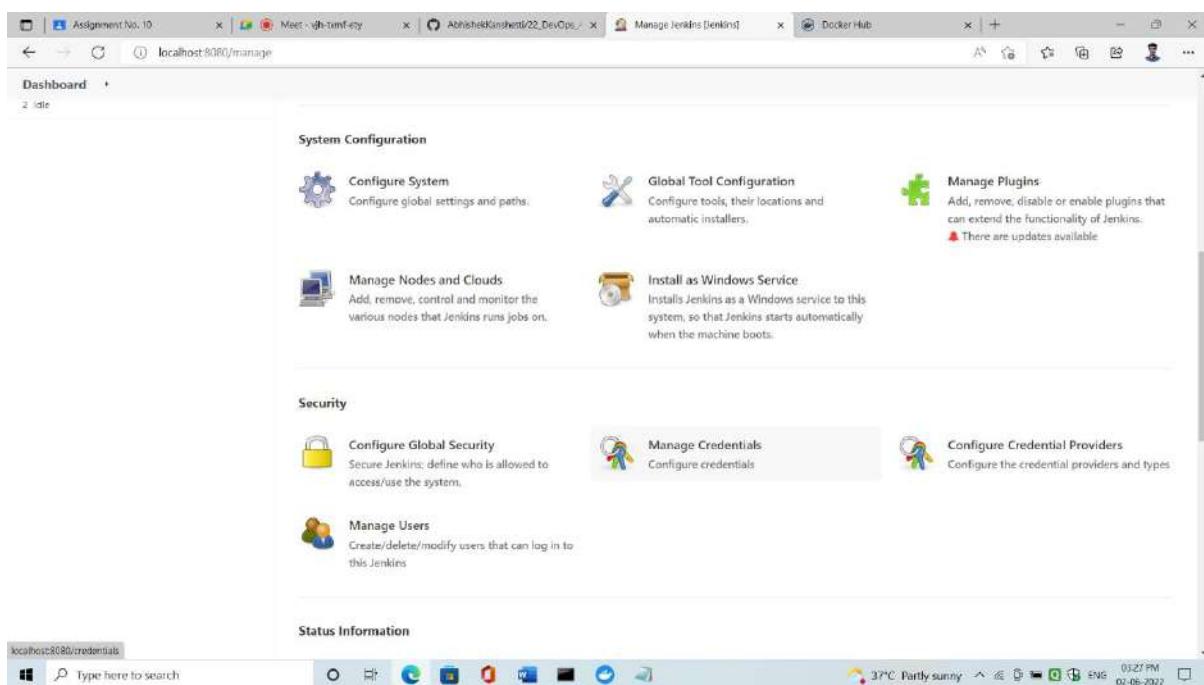
Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.
Then click on Manage Jenkins: -



Then click on Manage Credentials: -



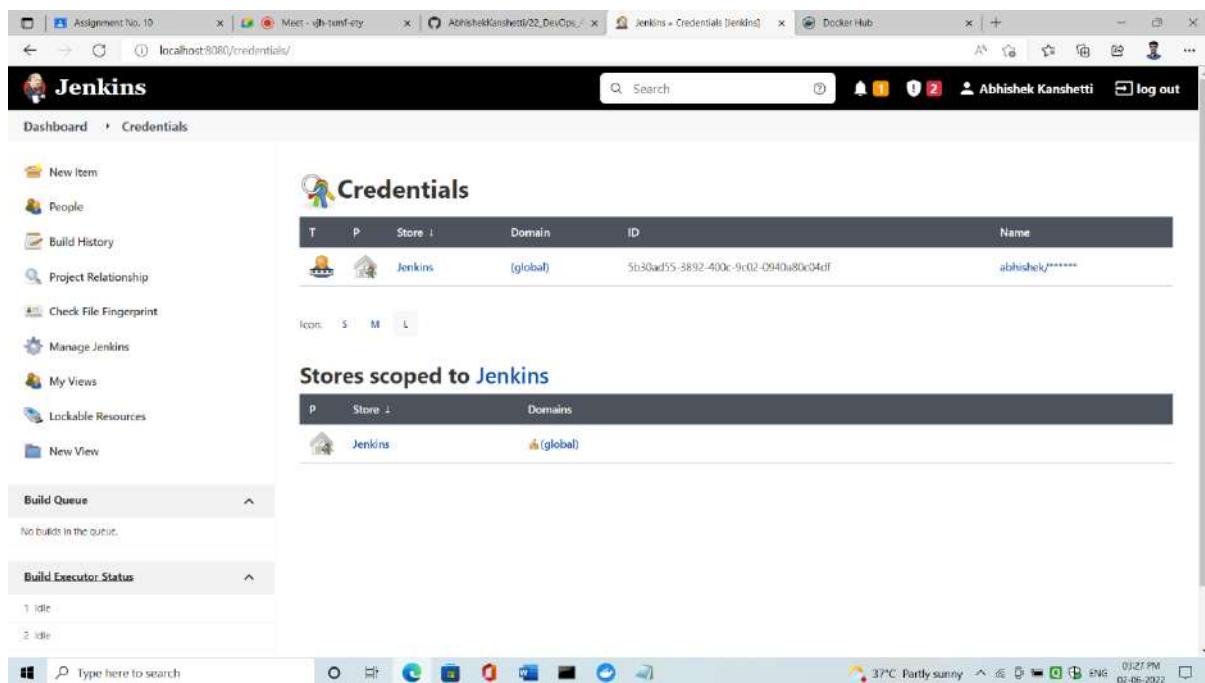
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Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.
Then click on Jenkins in Credentials as below: -

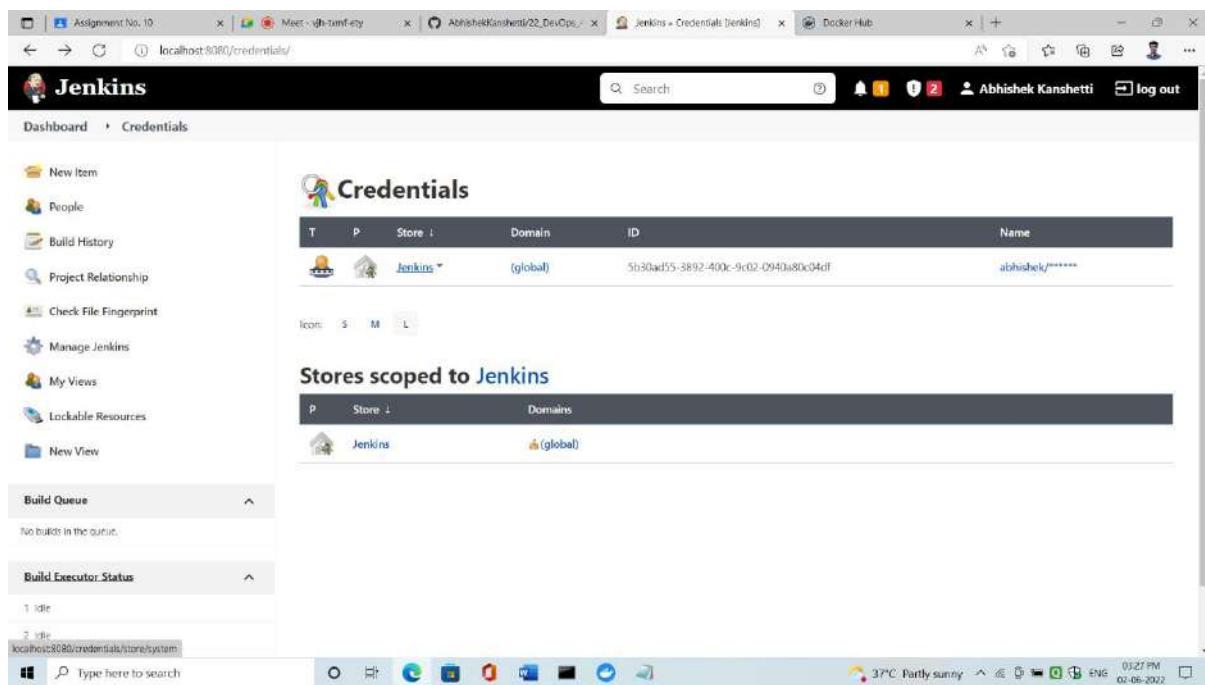


The screenshot shows the Jenkins interface with the 'Credentials' page selected. On the left, there's a sidebar with various links like 'Dashboard', 'New Item', 'People', etc. The main area is titled 'Credentials' and shows a table with one row:

T	P	Store ↓	Domain	ID	Name
		Jenkins	(global)	5b30ad55-3892-400c-9c02-0940a80c04cf	abhishek/*****

Below the table, there's a section titled 'Stores scoped to Jenkins' with a table:

P	Store ↓	Domains
	Jenkins	(global)



This screenshot is similar to the previous one, but the 'Store' dropdown in the top table has been expanded, showing 'Jenkins' as the selected option.

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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Then Click on Global credentials (unrestricted) as below: -

The screenshot shows the Jenkins System configuration page. On the left, there's a sidebar with various Jenkins management links like New Item, People, Build History, etc. The main content area is titled 'System' and shows a table for 'Global credentials (unrestricted)'. The table has columns for 'Domain' and 'Description'. One entry is listed: 'Global credentials (unrestricted)' with the description 'Credentials that should be available irrespective of domain specification to requirements matching.' Below the table, there are sections for 'Build Queue' (empty) and 'Build Executor Status' (two idle executors).

Then we will click on Add Credentials as below: -

The screenshot shows the 'Global credentials (unrestricted)' page. At the top, there's a link to 'Back to credential domains' and a 'Add Credentials' button. The main area displays a table of credentials. There is one entry: ID '5b30ad55-3892-400c-9c02-0940a80c04df', Name 'abhishek*****', Kind 'Username with password', and Description 'Username with password'. The bottom right corner of the page shows 'REST API Jenkins 2.332.3'.

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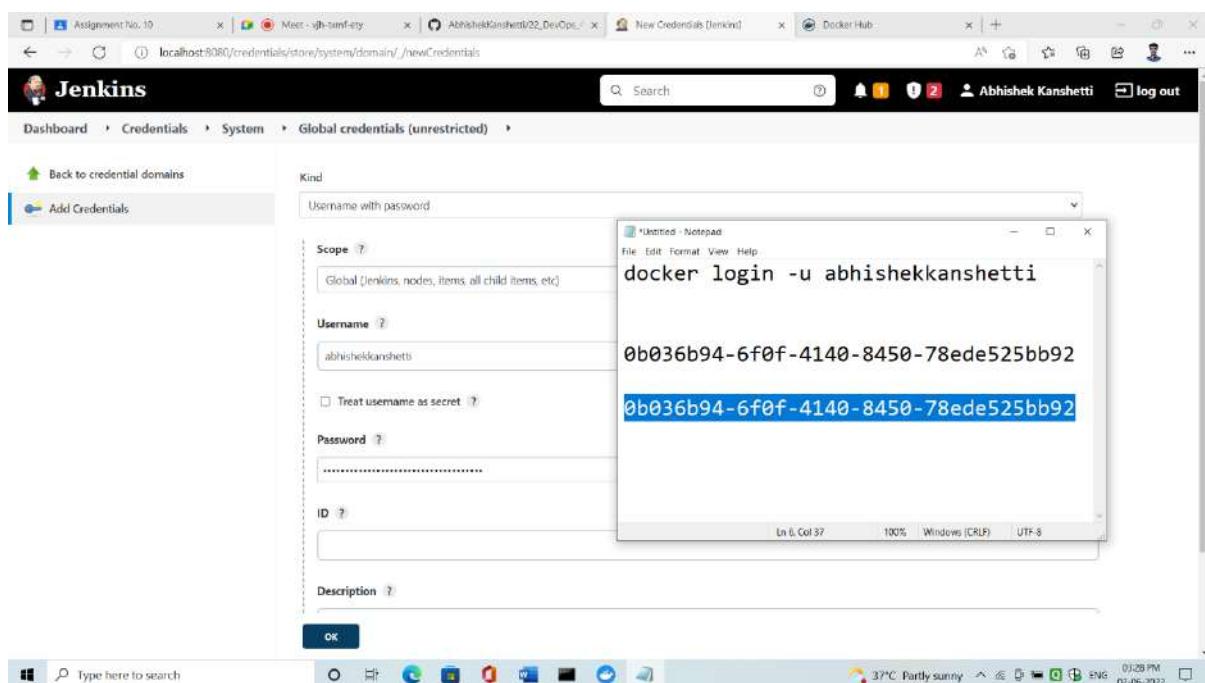
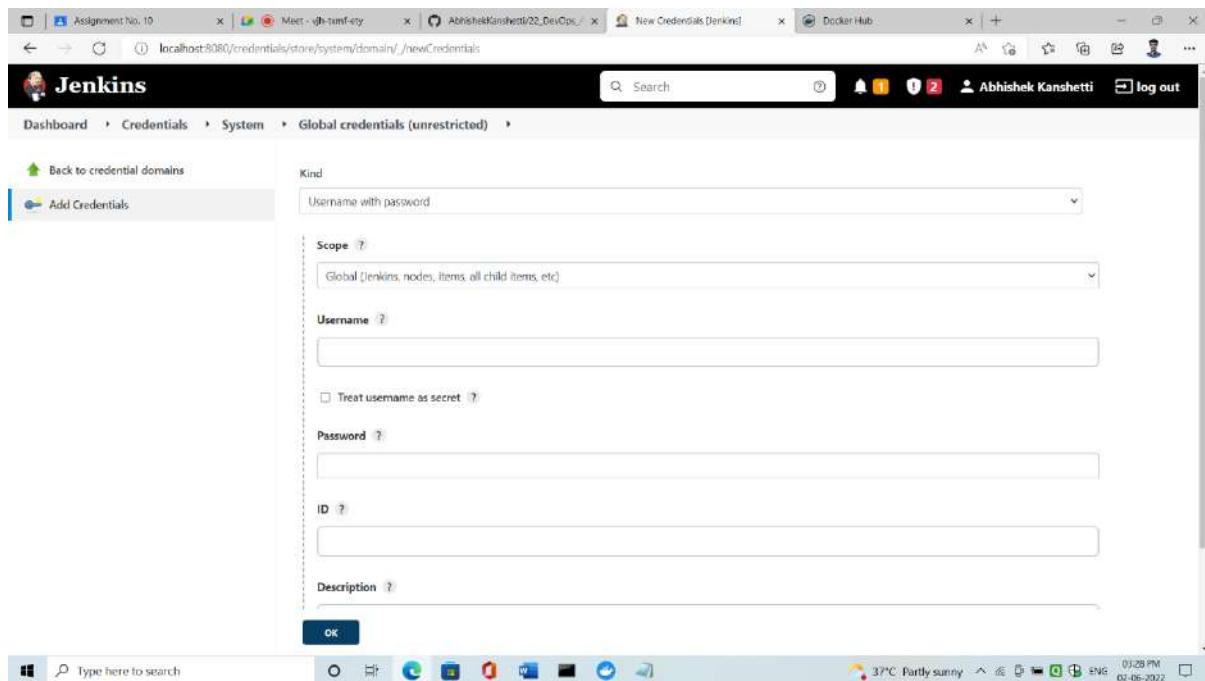
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

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



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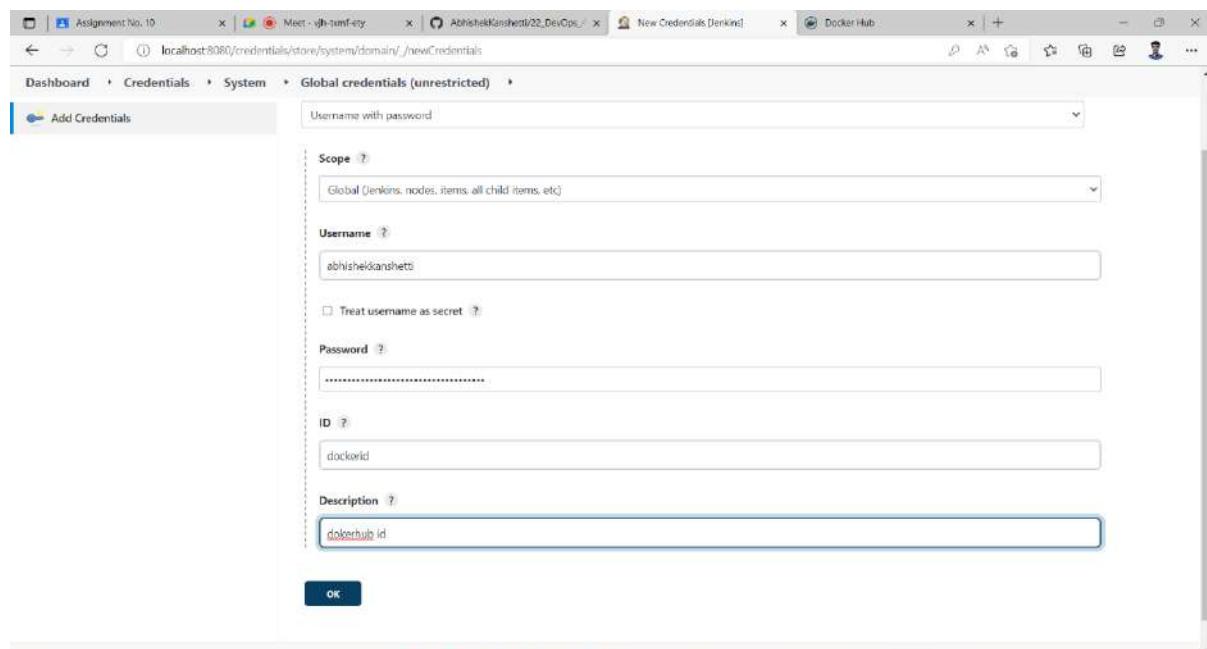
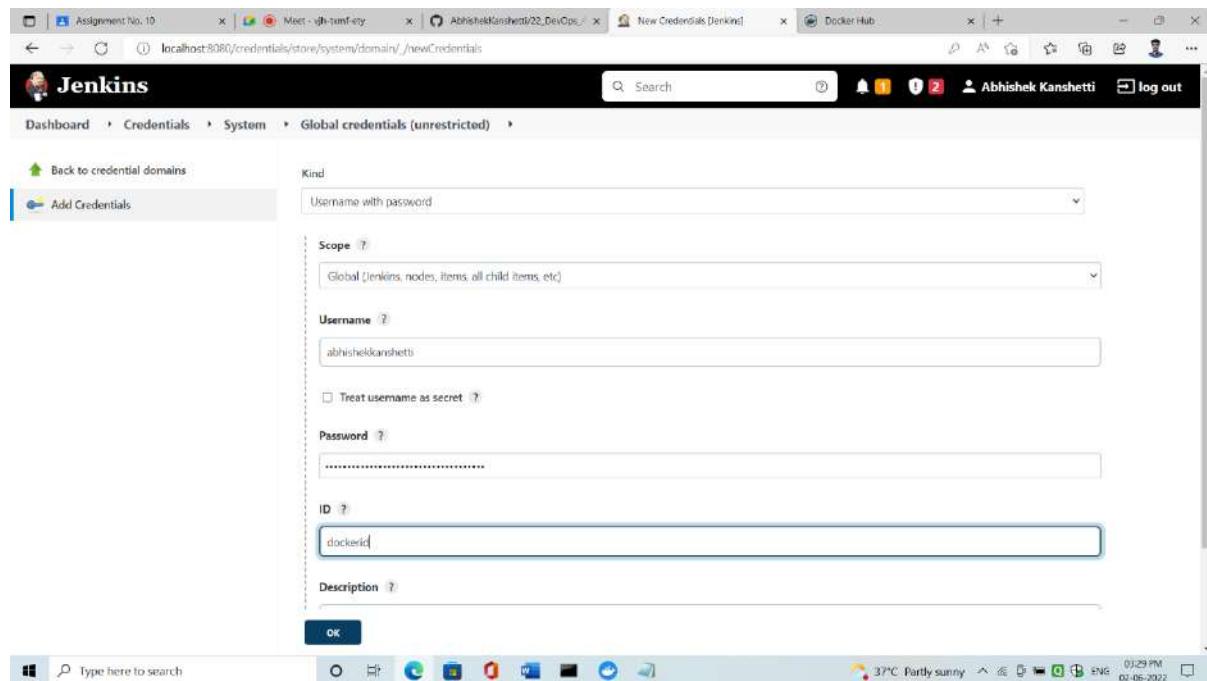
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Then we will Enter Id and description for this credential as below and we will click on “OK”:-



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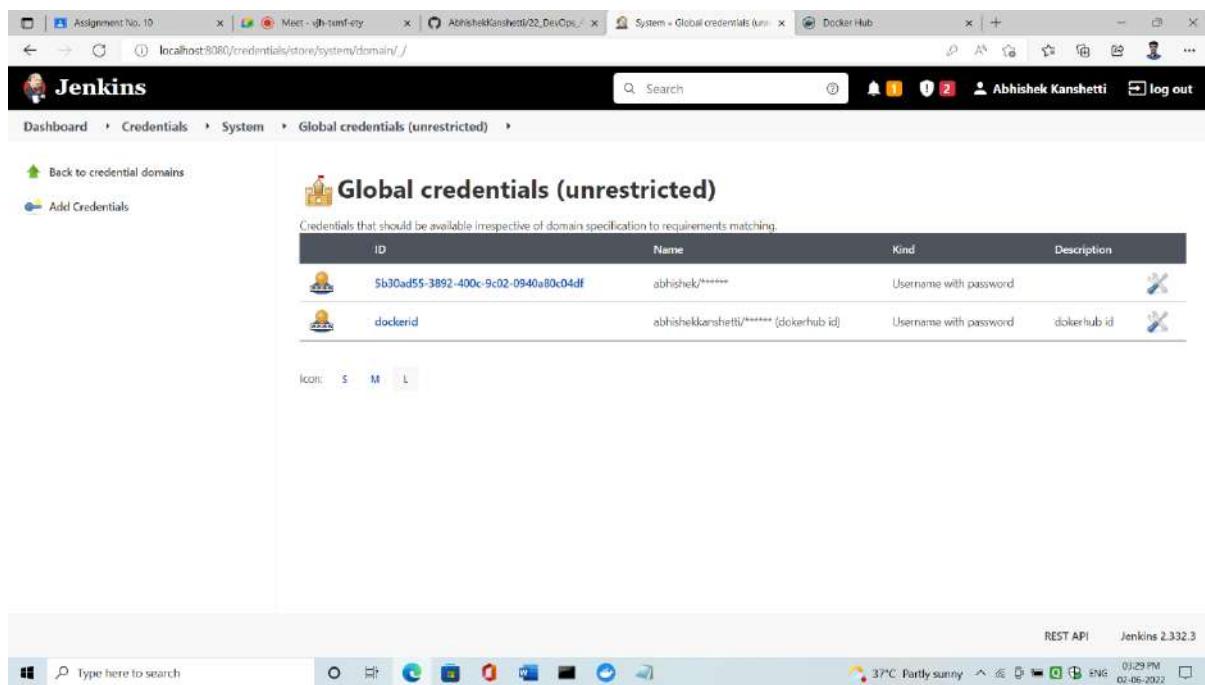
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

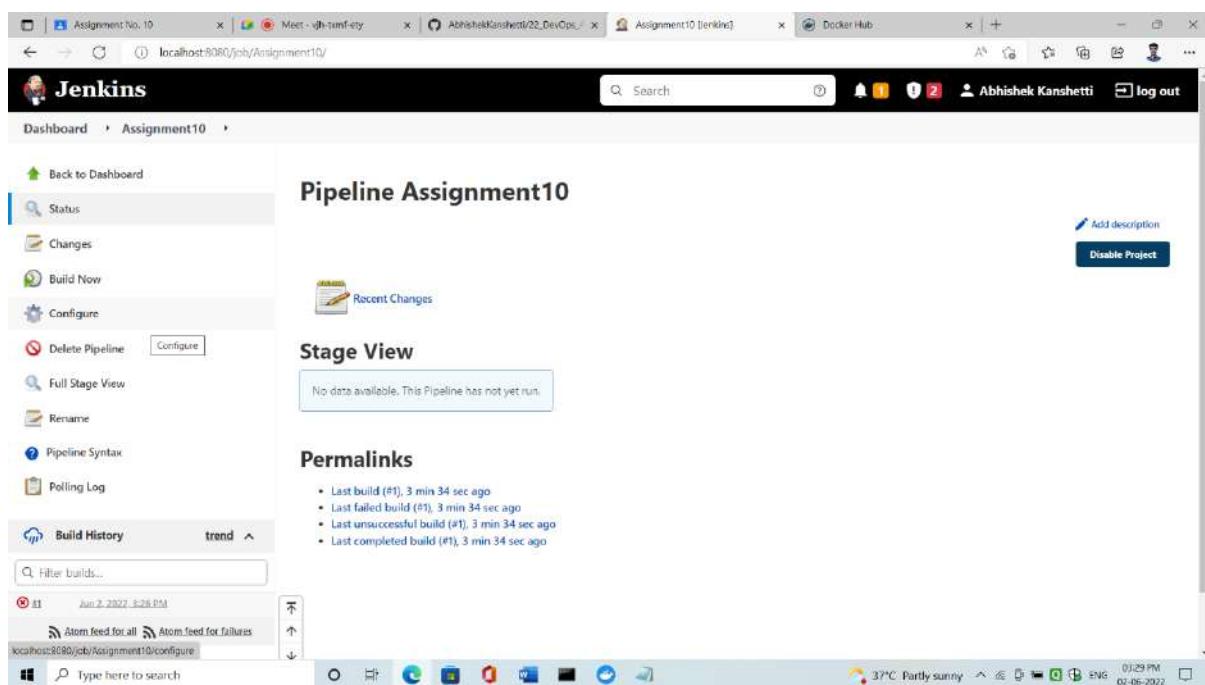
Title: Create a Jenkins pipeline to build and push Docker Image.

Our Docker Credentials is Added as below: -



ID	Name	Kind	Description
Sb30ad55-3892-400c-9c02-0940a80c04df	abhishek*****	Username with password	
dockerid	abhishekkanshetti***** (dokerhub id)	Username with password	dokerhub id

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



Build	Date
1	Jun 2, 2022, 3:26 PM

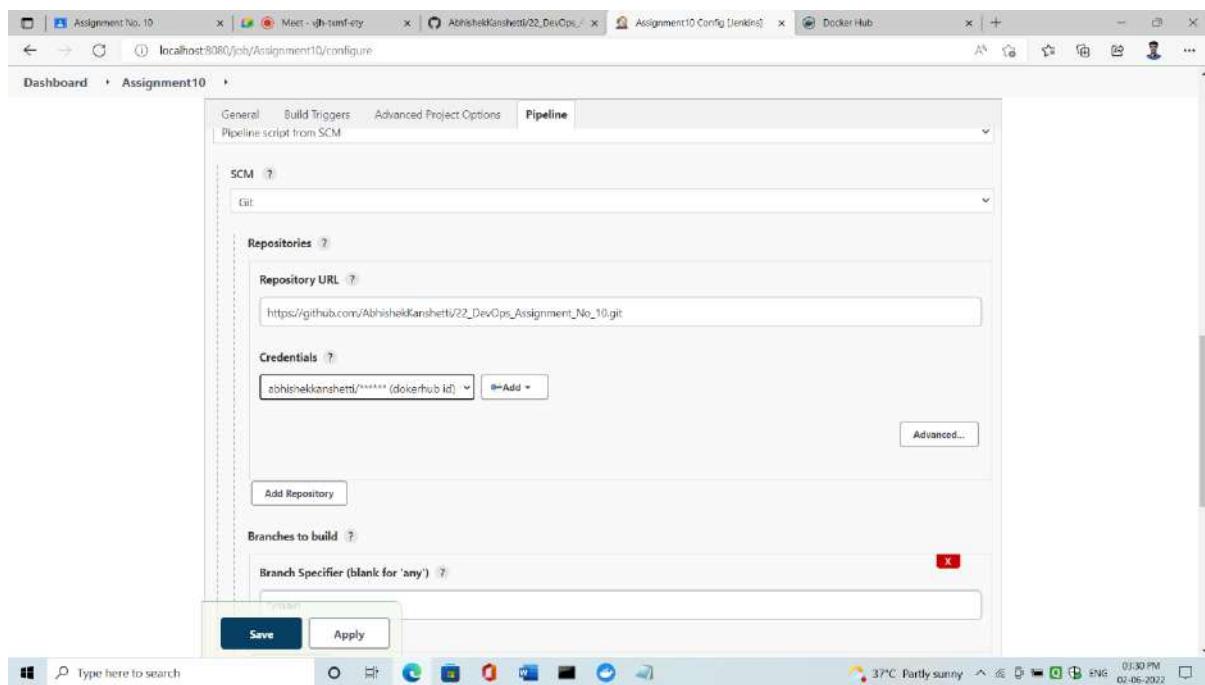
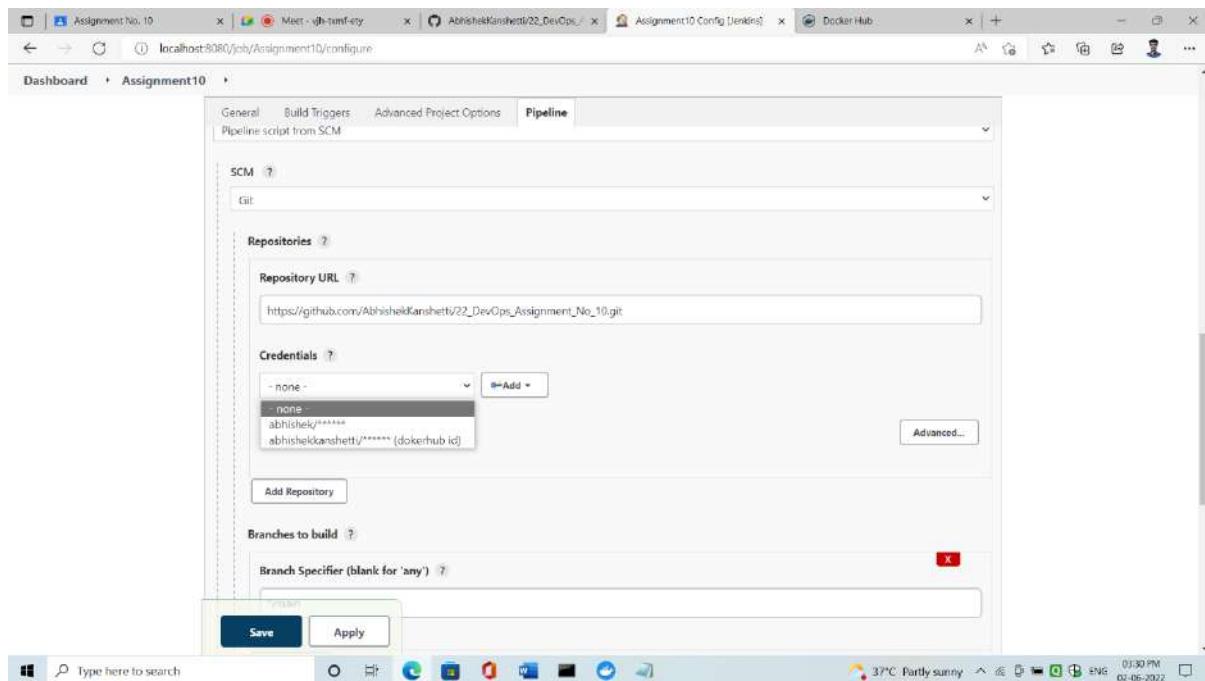
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.
We will select our Docker Hub Account as below: -



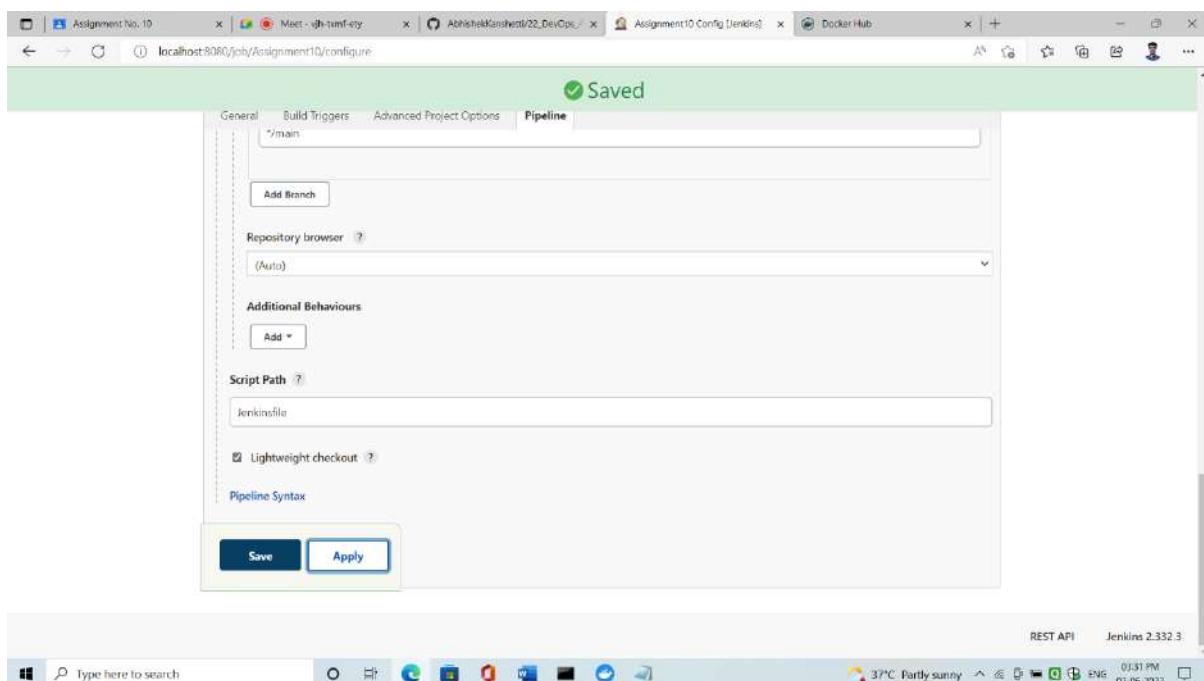
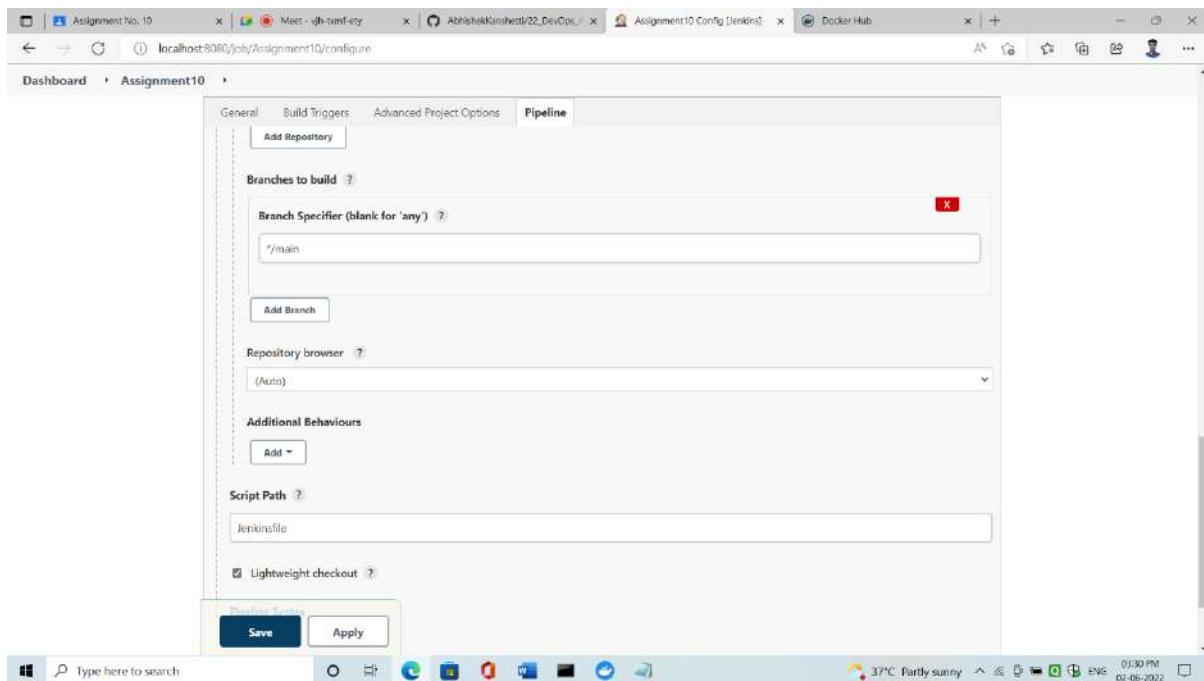
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Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.
Then we will click on Apply and save as below:-



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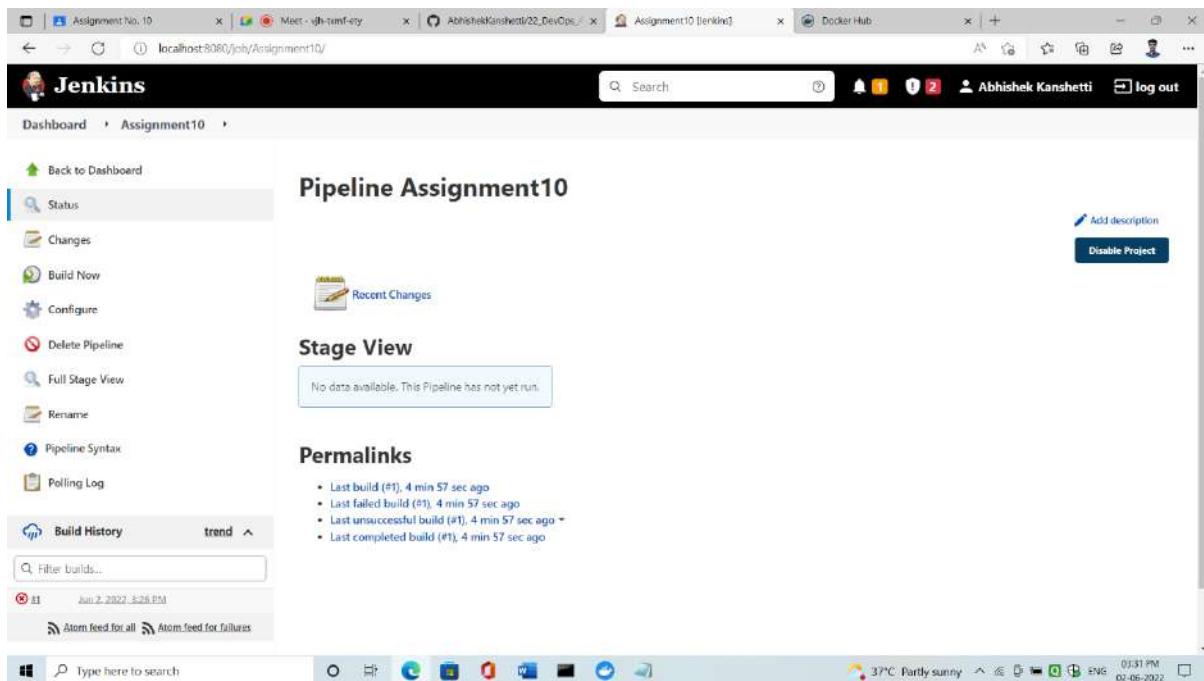
Name: Abhishek Basavraj Kanshetti

Roll No: 22

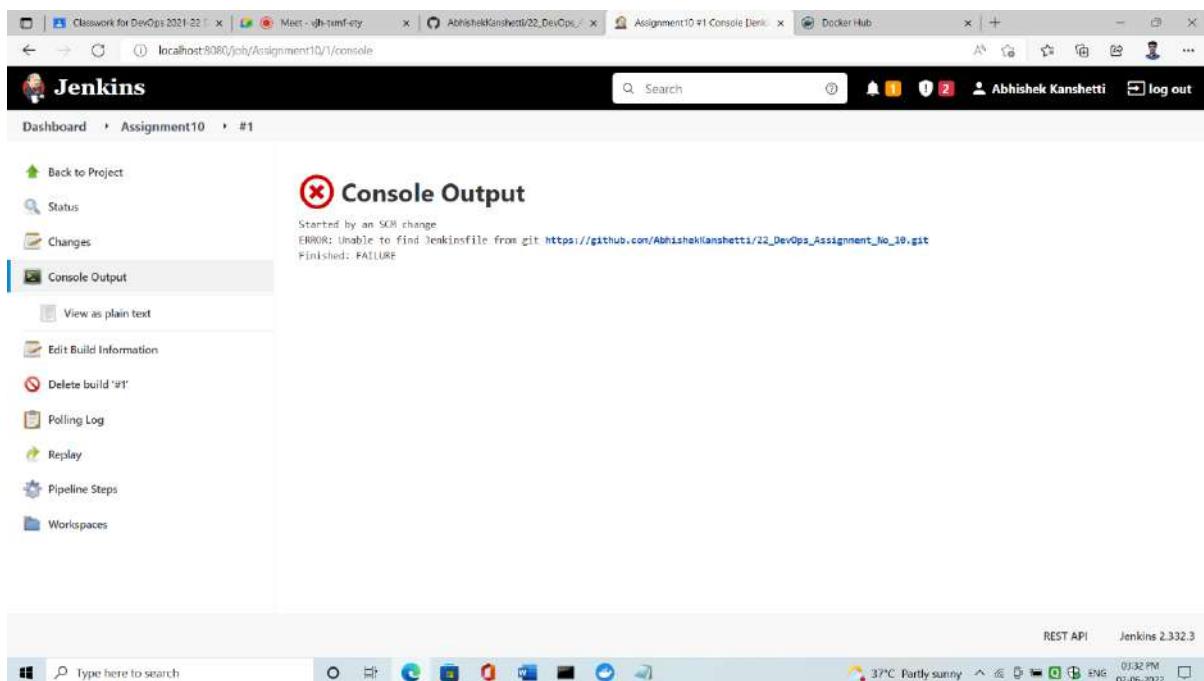
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

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



The screenshot shows the Jenkins Pipeline Assignment10 dashboard. On the left, a sidebar menu includes options like Back to Dashboard, Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Rename, Pipeline Syntax, Polling Log, and Build History. The Build History section shows a single build: #1, which was last run 4 min 57 sec ago. The main area is titled "Pipeline Assignment10" and displays a "Stage View" message: "No data available. This Pipeline has not yet run." Below this is a "Permalinks" section with a bulleted list of five links related to the build. At the bottom of the page, there's a search bar and a system tray showing the date and time as June 2, 2022, 3:26 PM.



The screenshot shows the Jenkins Pipeline Assignment10 console output for build #1. The title is "Console Output". It starts with "Started by an SCM change" and ends with "Finished: FAILURE". A red error message in the middle states: "ERROR: Unable to find Jenkinsfile from git: https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_10.git". The sidebar on the left is identical to the previous dashboard screenshot, showing the same list of Jenkins management options.

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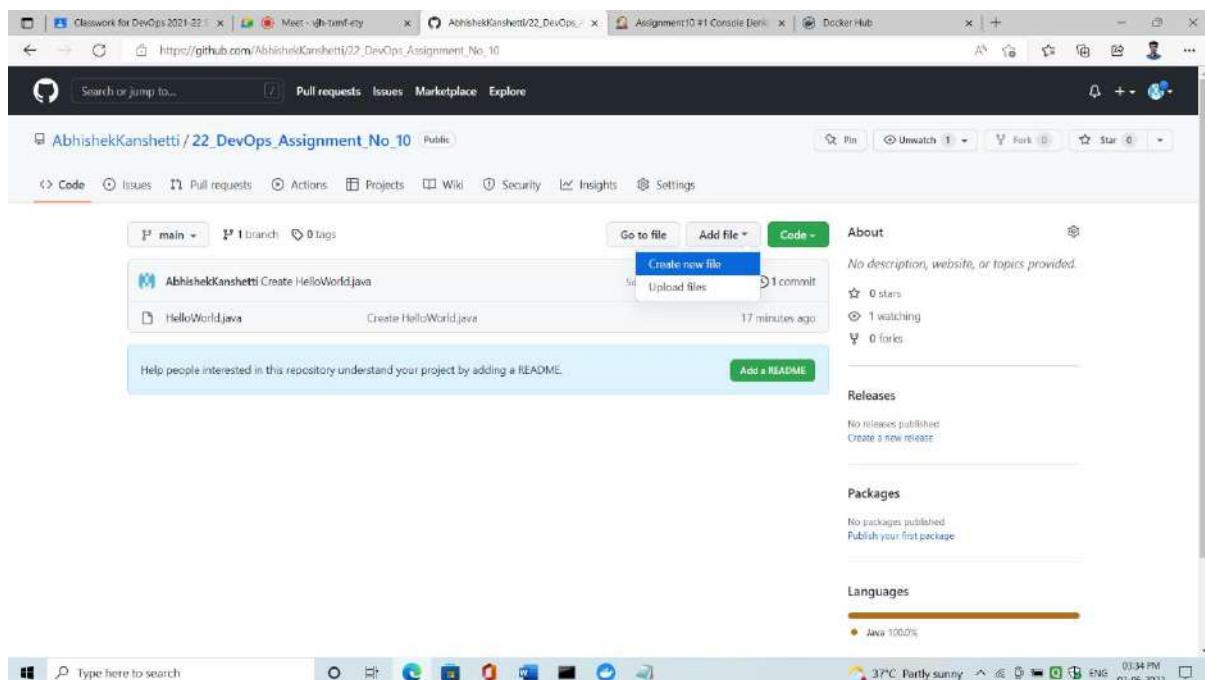
Name: Abhishek Basavraj Kanshetti

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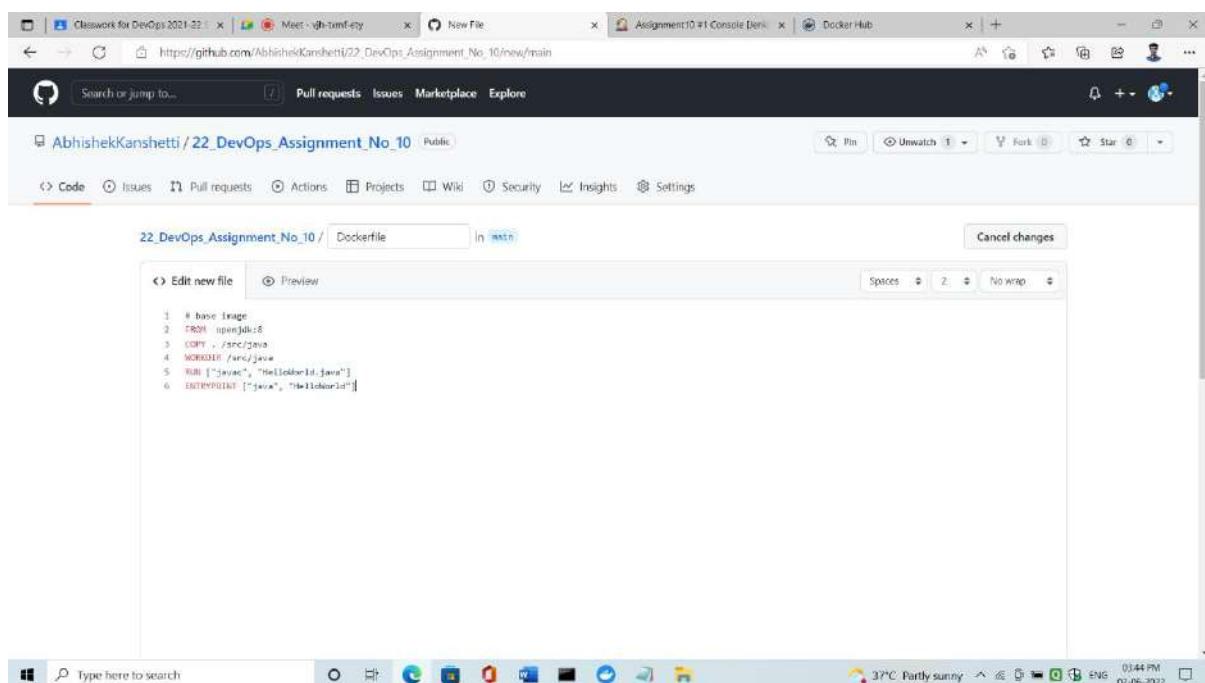
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Now on git we will add file as below:-



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



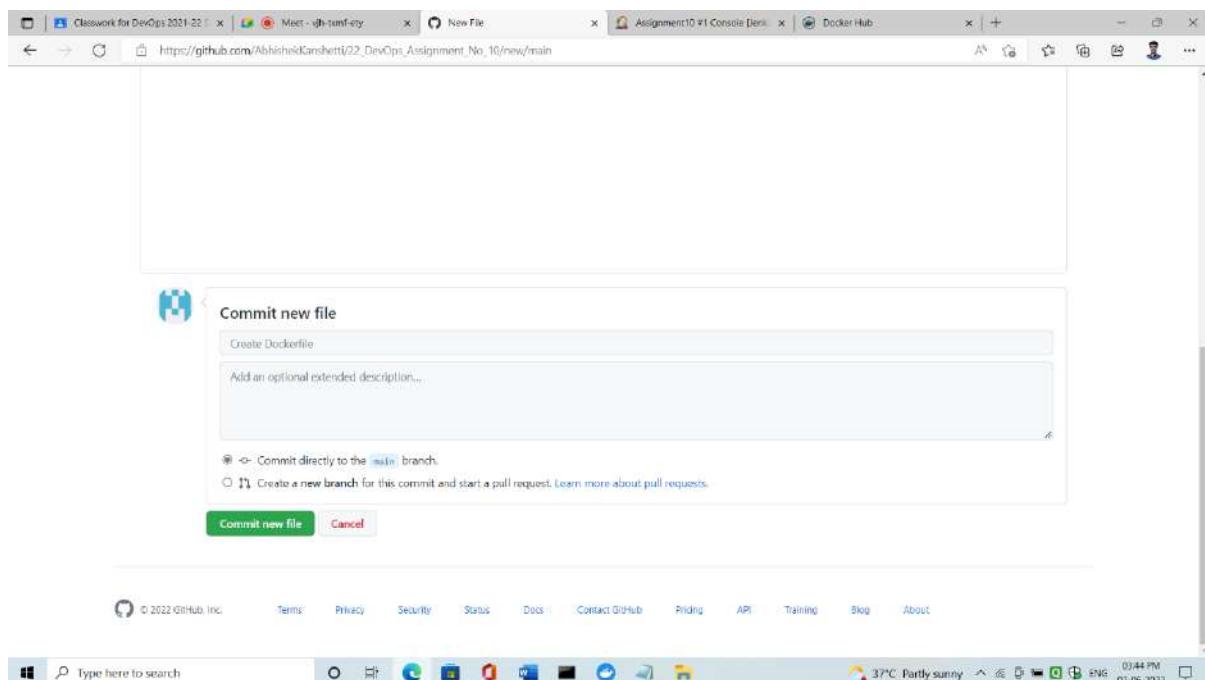
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Name: Abhishek Basavraj Kanshetti

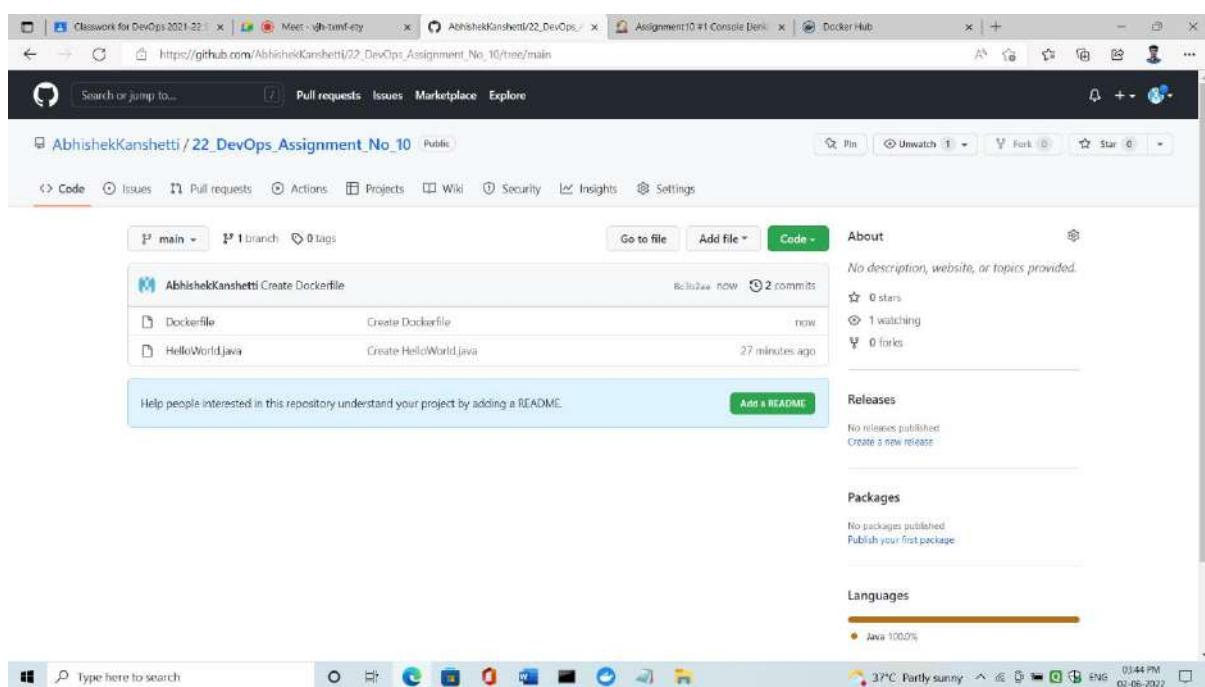
Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.
Then we will commit file as below: -



Committed file as below: -



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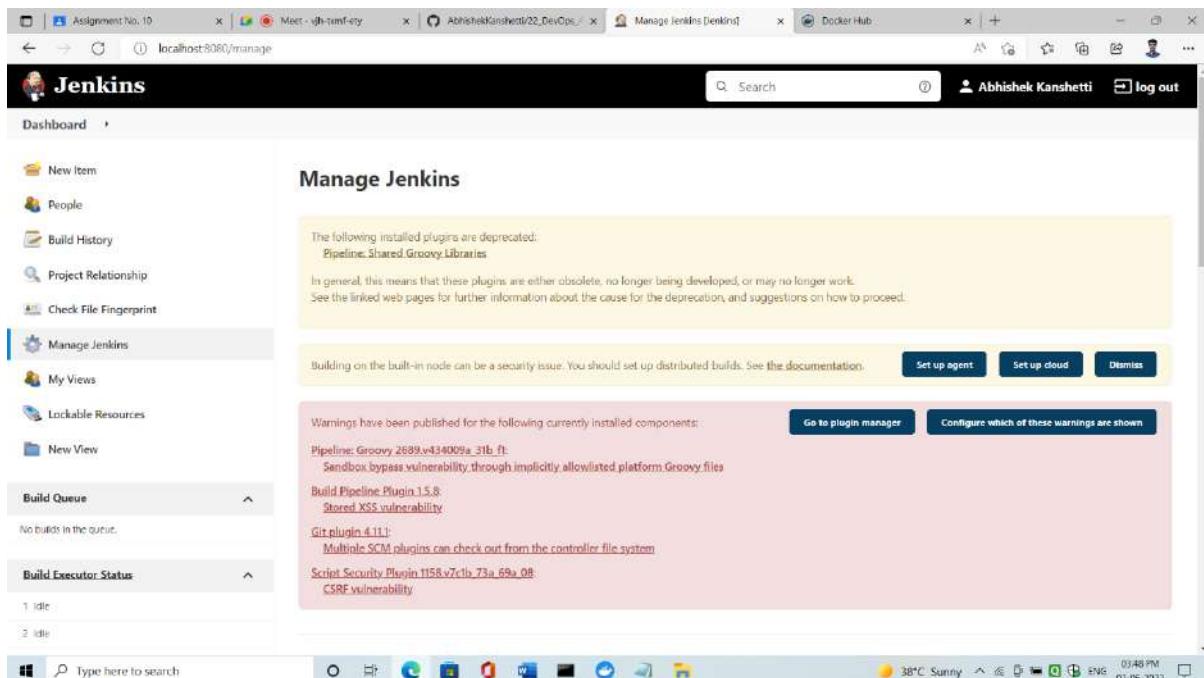
Name: Abhishek Basavraj Kanshetti

Roll No: 22

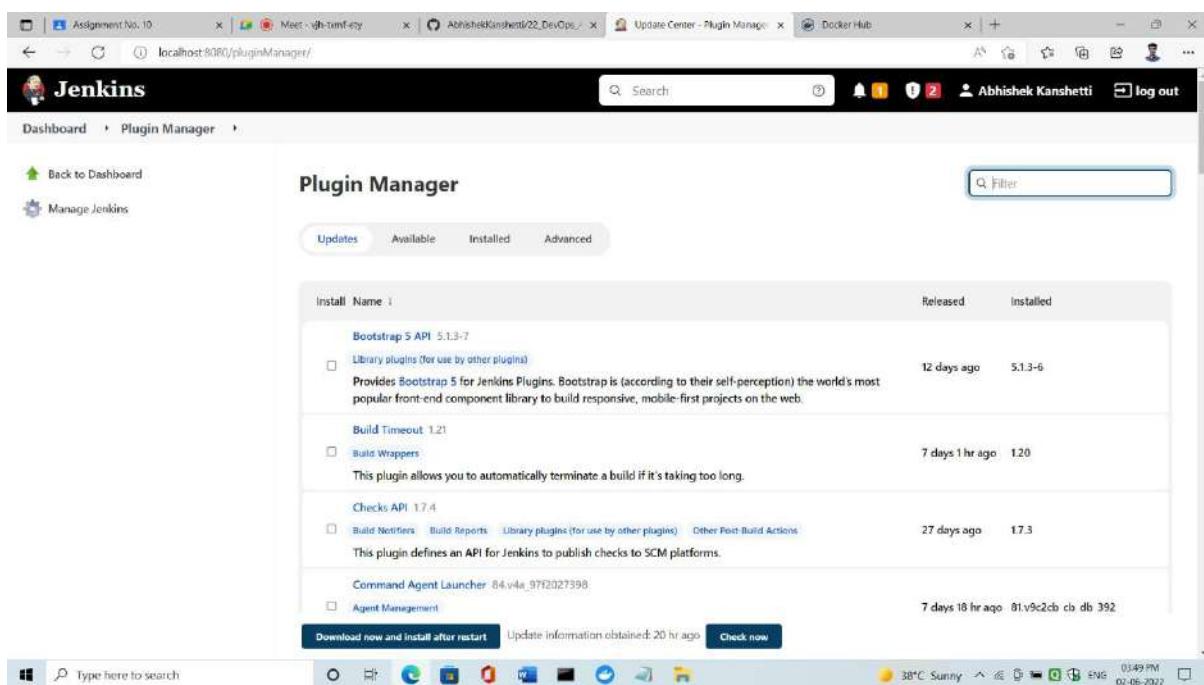
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

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



The screenshot shows the Jenkins Manage Jenkins interface. On the left, there's a sidebar with various management options like New Item, People, Build History, Project Relationship, Check File Fingerprint, Manage Jenkins (which is selected), My Views, Lockable Resources, and New View. The main content area is titled "Manage Jenkins". It displays a yellow box about deprecated plugins (Pipeline, Shared Groovy Libraries) and a pink box about warnings for currently installed components (Pipeline, Groovy, Build Pipeline, Git, Script Security). At the bottom right of the main content area, there are buttons for "Go to plugin manager", "Configure which of these warnings are shown", "Set up agent", "Set up cloud", and "Dismiss". The status bar at the bottom indicates it's 38°C Sunny at 03:48 PM on 02-06-2022.



The screenshot shows the Jenkins Plugin Manager page. The top navigation bar includes links for Back to Dashboard and Manage Jenkins. The main title is "Plugin Manager". Below the title, there are tabs for Updates, Available, Installed, and Advanced. The "Updates" tab is selected. A table lists several available plugins:

Install Name	Released	Installed
Bootstrap 5 API 5.1.3-7	12 days ago	5.1.3-6
Build Timeout 1.21	7 days 1 hr ago	1.20
Checks API 1.7.4	27 days ago	1.7.3
Command Agent Launcher 84.v4a_97f2027398	7 days 18 hr ago	81.v9c2cb cb db 392
Agent Management		

At the bottom of the page, there are buttons for "Download now and install after restart", "Update information obtained: 20 hr ago", and "Check now". The status bar at the bottom indicates it's 38°C Sunny at 03:49 PM on 02-06-2022.

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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

We will go to Available tab, then search for docker and then we will select plugin as below: -

The screenshot shows the Jenkins Plugin Manager interface. The top navigation bar has tabs for 'Available' and 'Installed'. A search bar on the right contains the text 'docker'. Below the search bar, there is a list of available Jenkins plugins:

Install	Name	Released
<input type="checkbox"/>	Docker 1.2.9	1 mo 6 days ago
<input type="checkbox"/>	Docker Commons 1.19	4 mo 5 days ago
<input type="checkbox"/>	Docker Pipeline 1.28	4 mo 4 days ago
<input type="checkbox"/>	Docker API 3.2.13-37.vf3411c9828b9	

At the bottom of the list, there are three buttons: 'Install without restart', 'Download now and install after restart', and 'Check now'. The status message 'Update information obtained: 21 hr ago' is displayed above the buttons.

Then, we will click on Install without restart as below: -

The screenshot shows the Jenkins Plugin Manager interface with the 'Available' tab selected. The 'docker' plugin is highlighted with a yellow background. Its details are shown in a modal window:

Docker 1.2.9
Cloud Providers | Cluster Management | docker
This plugin integrates Jenkins with Docker

Docker Commons 1.19
Library plugins (for use by other plugins) | docker
Provides the common shared functionality for various Docker-related plugins.

Docker Pipeline 1.28
pipeline | DevOps | Deployment | docker
Build and use Docker containers from pipelines.

Docker API 3.2.13-37.vf3411c9828b9
Library plugins (for use by other plugins) | docker
This plugin provides docker-Java API for other plugins.
This plugin is up for adoption! We are looking for new maintainers. Visit our [Adopt a Plugin](#) initiative for more information.

docker-build-step 2.8
Build Tools | docker
This plugin allows to add various docker commands to your job as build steps.

At the bottom of the list, there are three buttons: 'Install without restart', 'Download now and install after restart', and 'Check now'. The status message 'Update information obtained: 21 hr ago' is displayed above the buttons.

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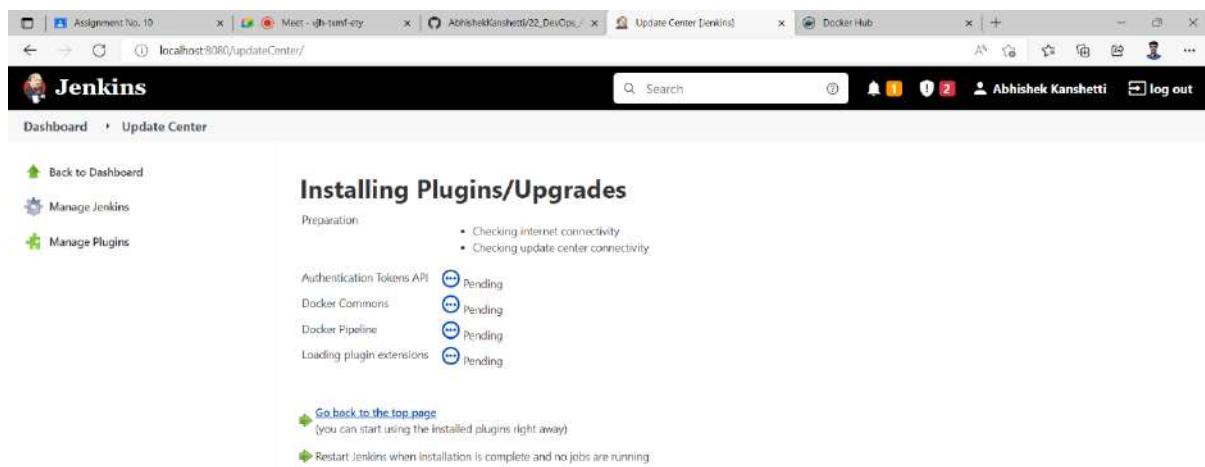
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

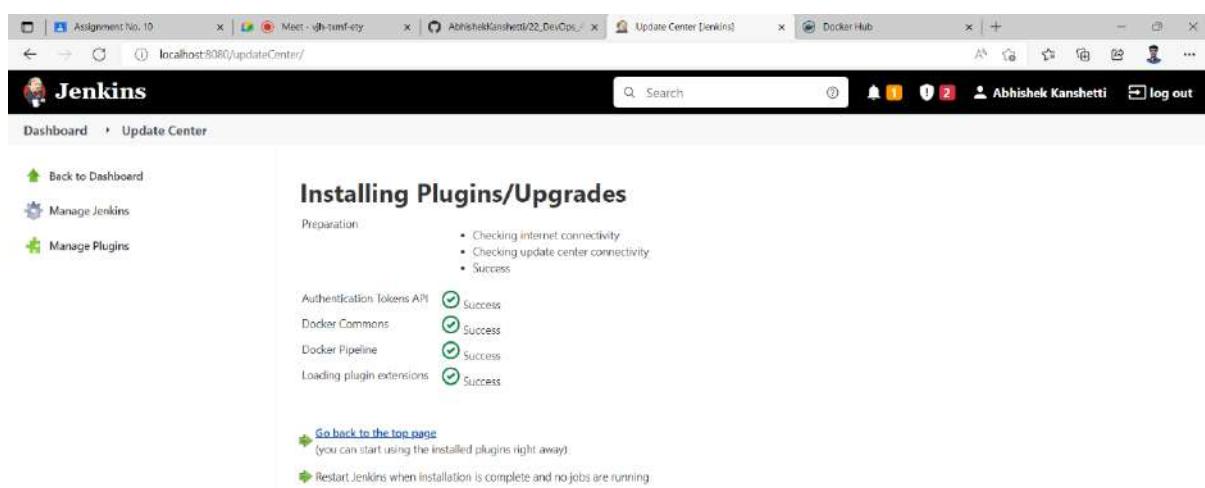
Installing the Plugin: -



The screenshot shows the Jenkins Update Center interface. The title bar says "Assignment No. 10" and "localhost:8080/updateCenter/". The main content area is titled "Installing Plugins/Upgrades". Under "Preparation", there are two bullet points: "Checking internet connectivity" and "Checking update center connectivity". Below this, under "Docker Pipeline", there is a status entry: "Pending". At the bottom, there are two green checkmark icons with instructions: "Go back to the top page" (you can start using the installed plugins right away) and "Restart Jenkins when installation is complete and no jobs are running".



Installation of Plugin is Successful as below: -



This screenshot is identical to the one above, showing the Jenkins Update Center page. The "Docker Pipeline" plugin is now listed as "Success" under the "Status" column. The rest of the page content, including preparation steps and restart instructions, remains the same.



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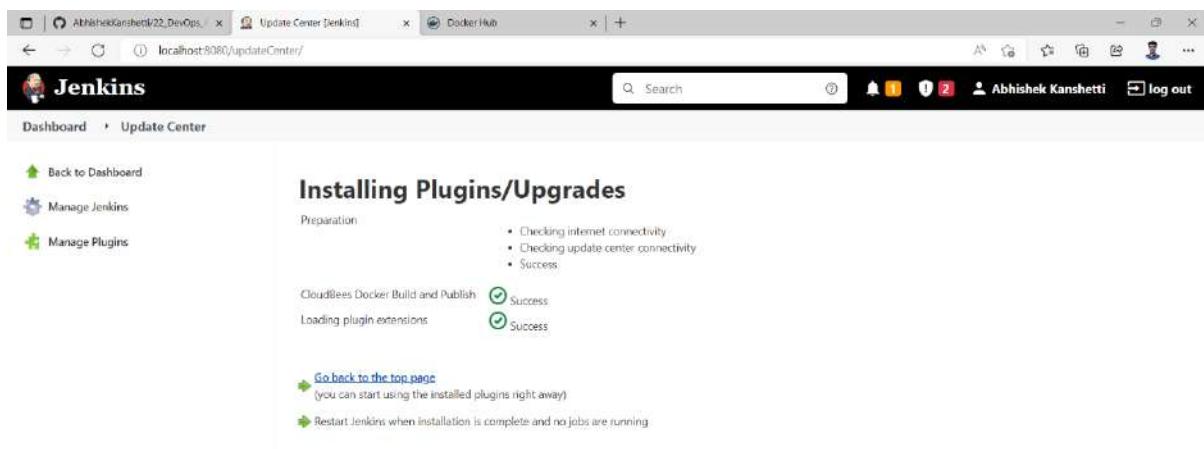
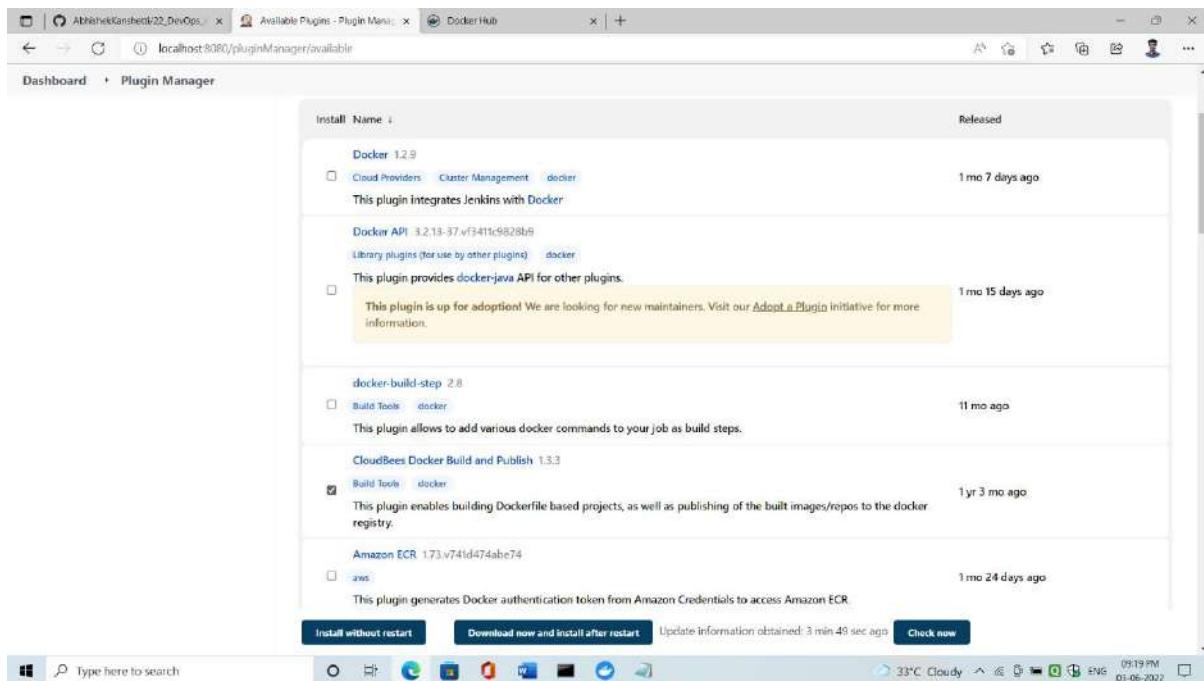
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

After that we will logout and login for installing the other docker plugin as follow: -



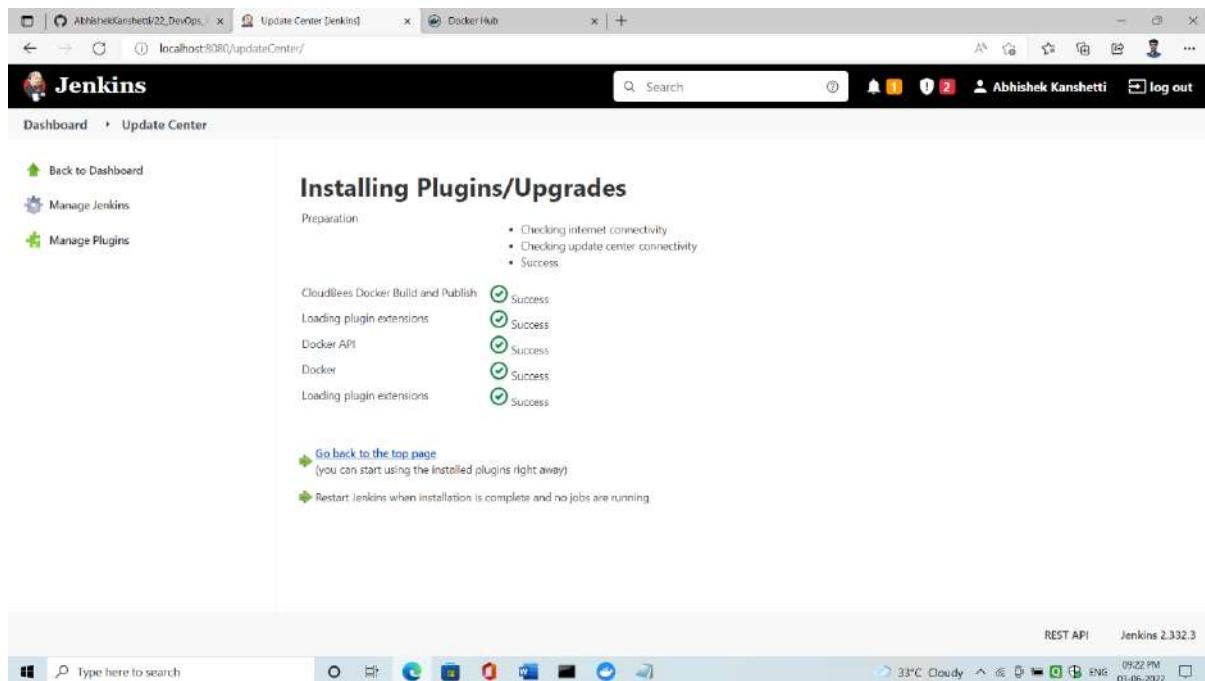
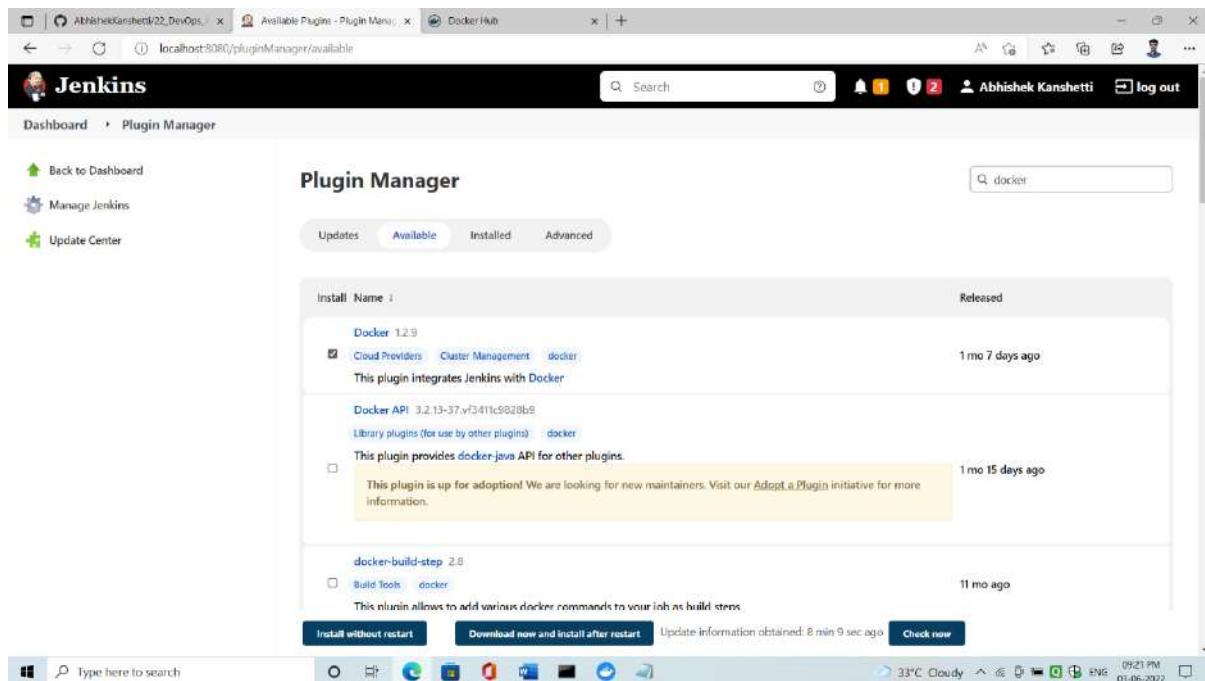
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



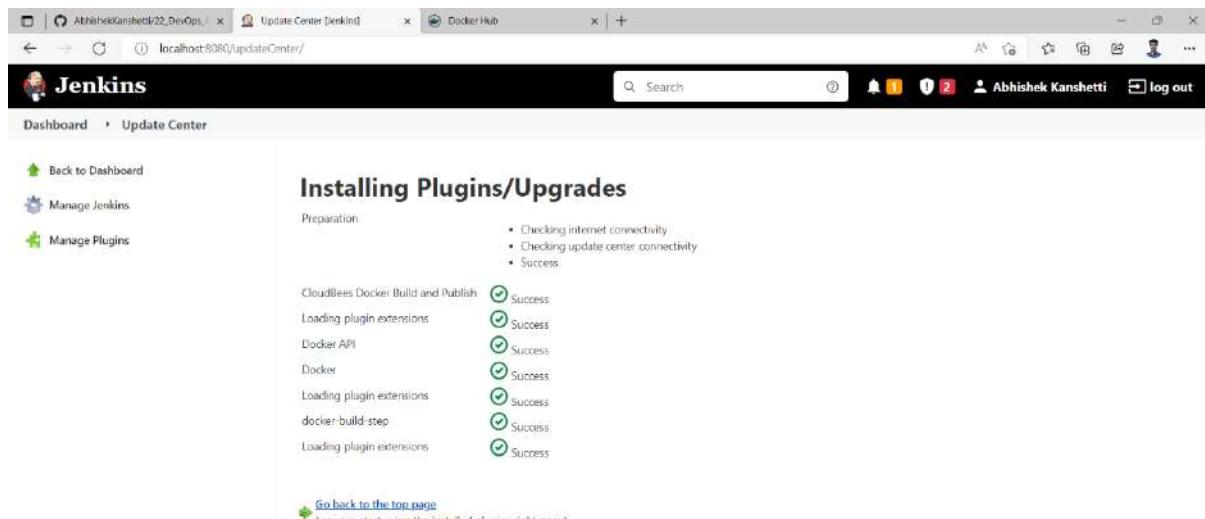
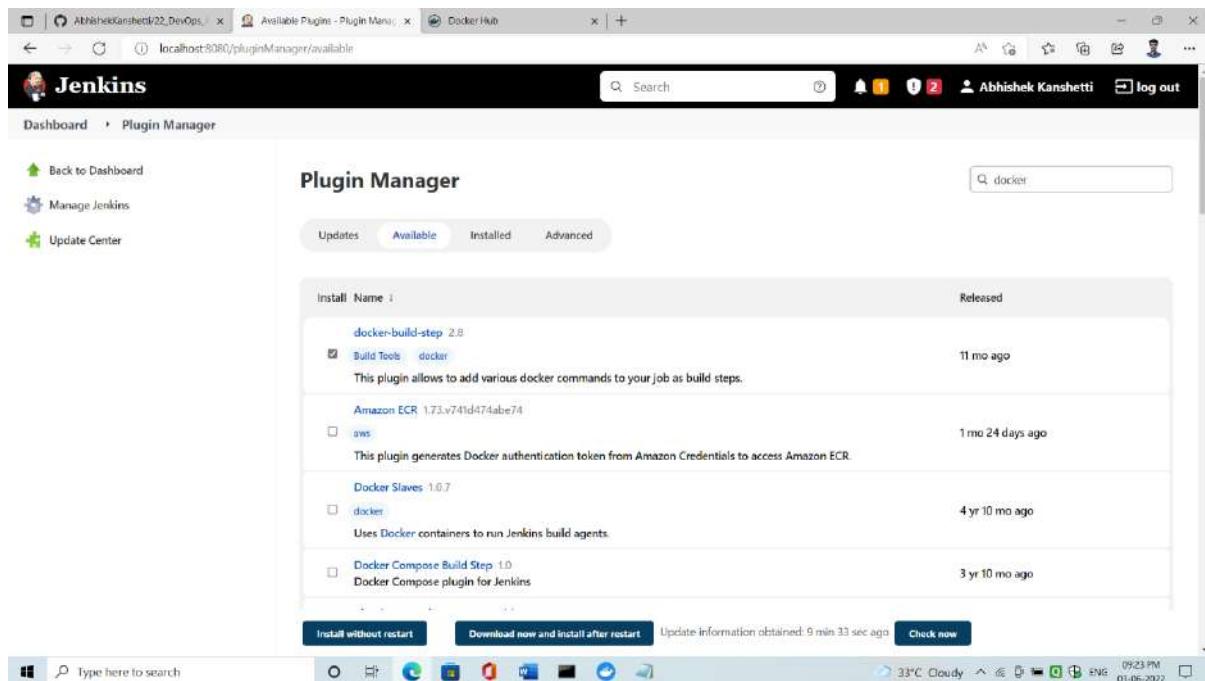
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



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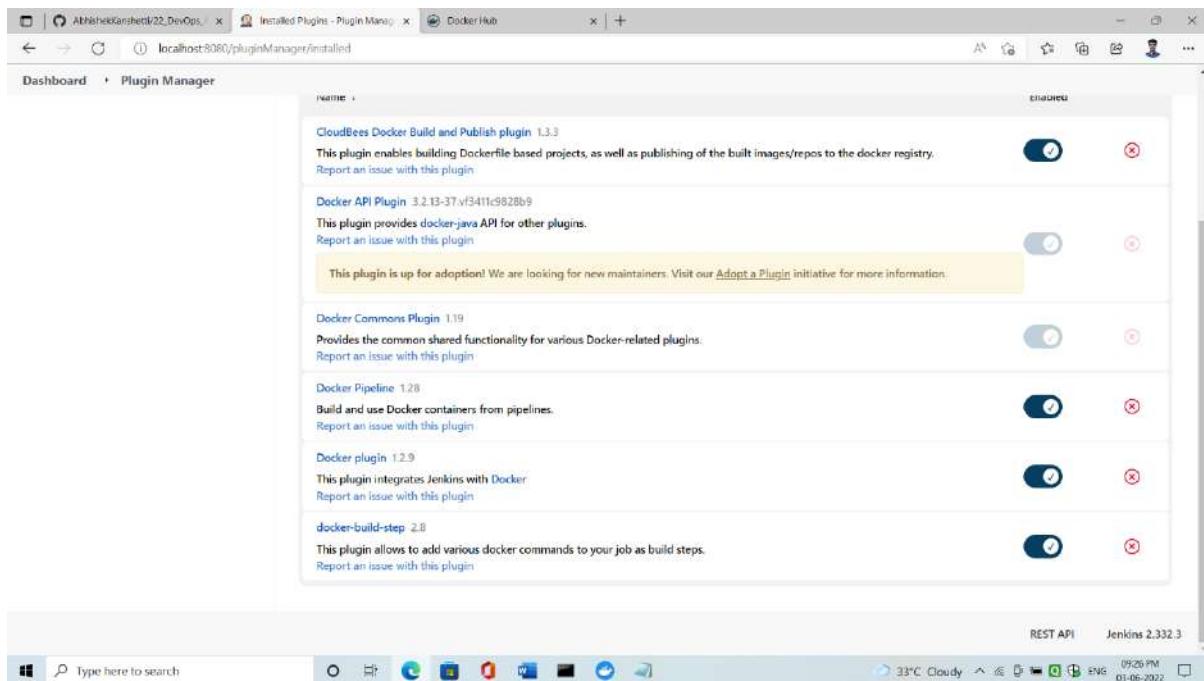
Name: Abhishek Basavraj Kanshetti

Roll No: 22

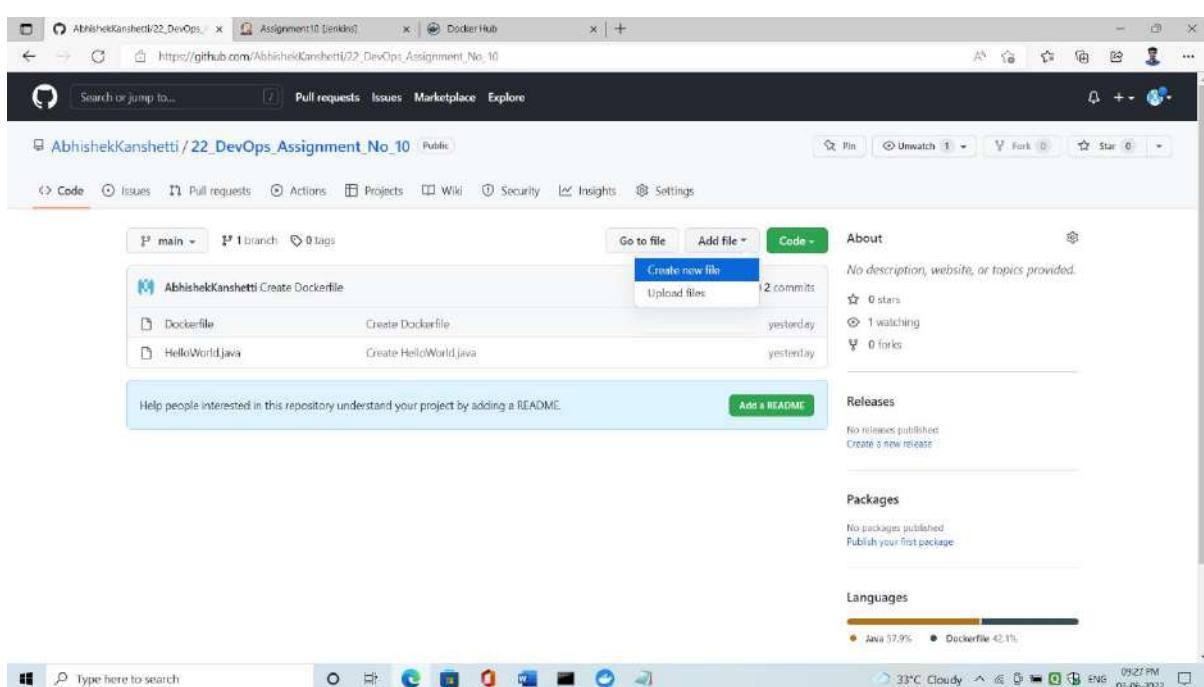
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Now we can see that in the Plugin Manager, under Installed tab, following Docker Plugins are installed as below: -



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



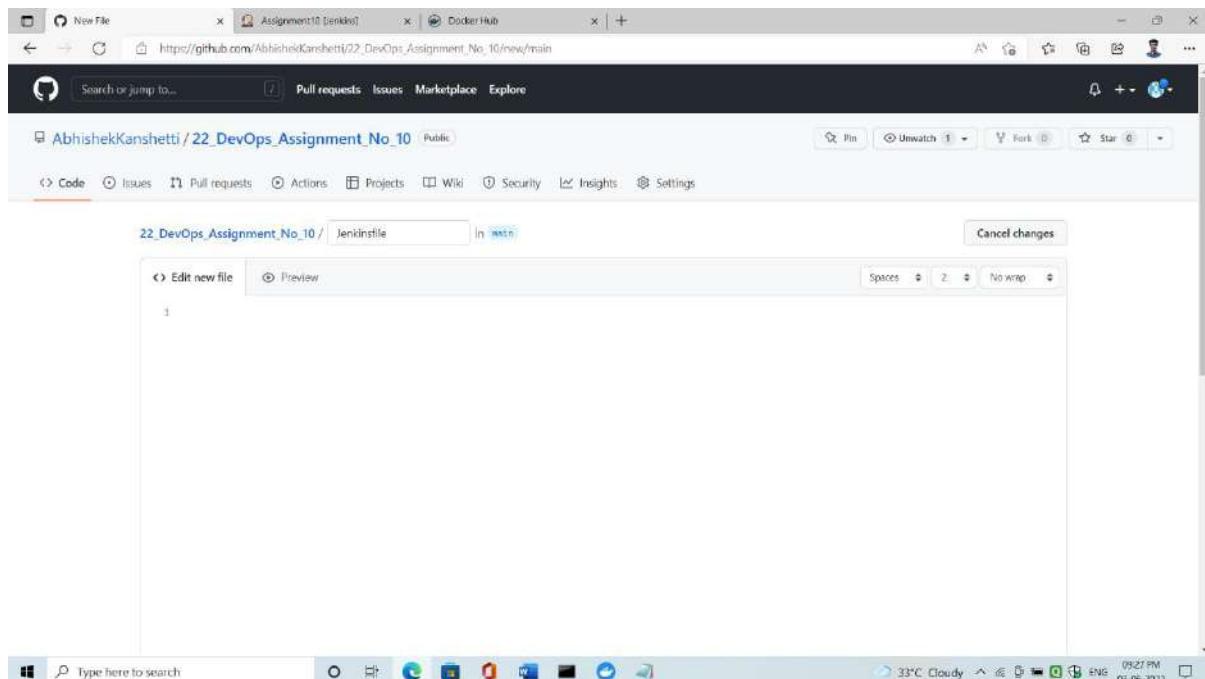
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Name: Abhishek Basavraj Kanshetti

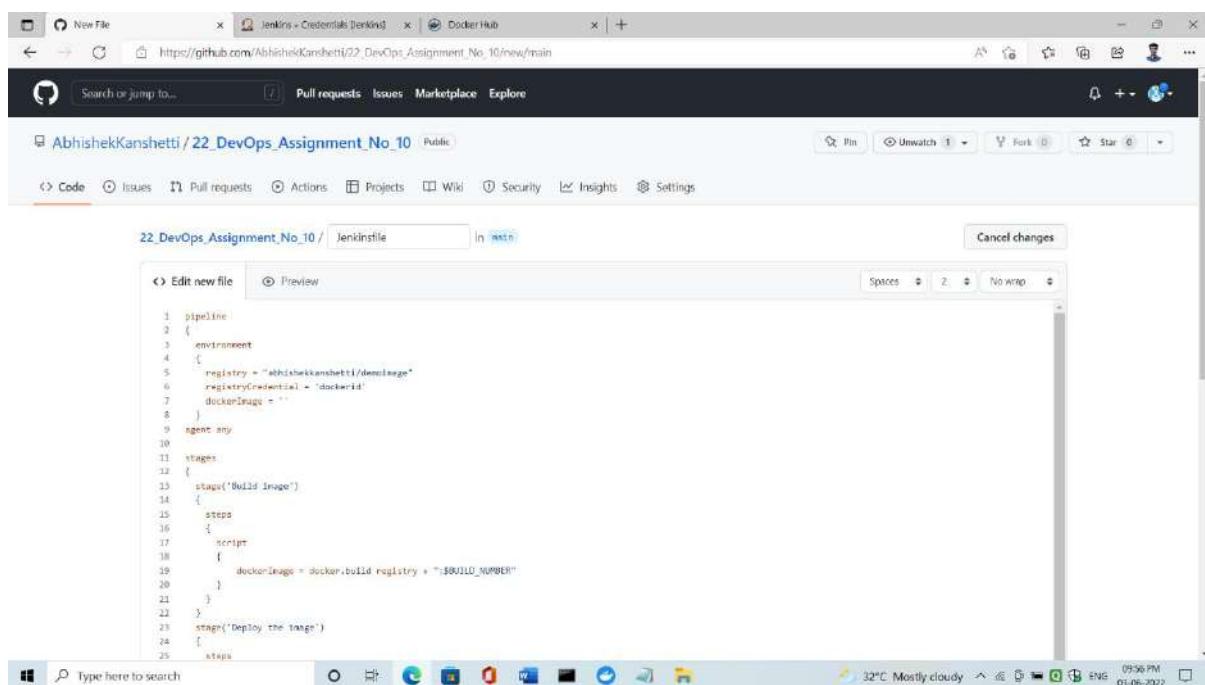
Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



A screenshot of a Microsoft Edge browser window displaying a GitHub repository page. The URL is https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_10. The page shows the Jenkinsfile being edited. The code is currently empty, containing only a single blank line. The GitHub interface includes a search bar, navigation tabs (Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, Settings), and a preview pane.



A screenshot of a Microsoft Edge browser window displaying a GitHub repository page. The URL is https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_10. The page shows the Jenkinsfile being edited. The code now contains a Jenkins pipeline script:

```
1 pipeline
2 {
3     environment
4     {
5         registry = "abhishekkanshetti/deeplage"
6         registryCredential = "dockerid"
7         dockerImage = ""
8     }
9     agent any
10
11     stages
12     {
13         stage("Build Image")
14         {
15             steps
16             {
17                 script
18                 {
19                     dockerImage = docker.build registry + ":$BUILD_NUMBER"
20                 }
21             }
22         }
23         stage("Deploy the image")
24         {
25             steps
26         }
27     }
28 }
```

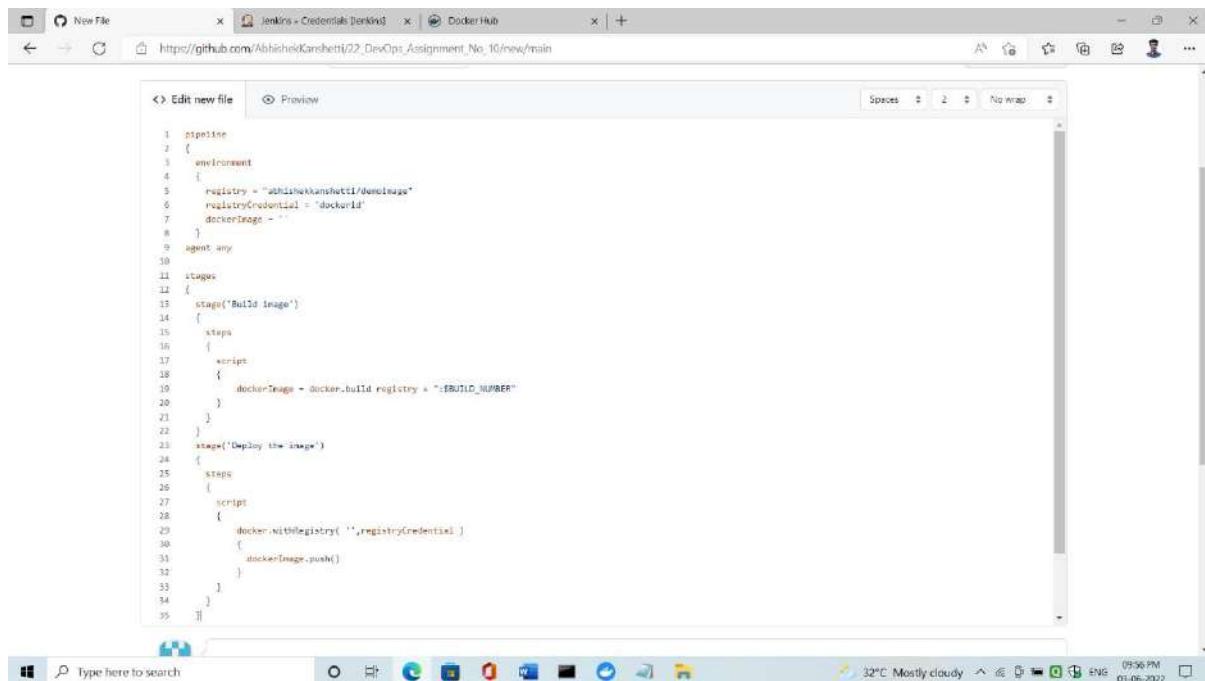
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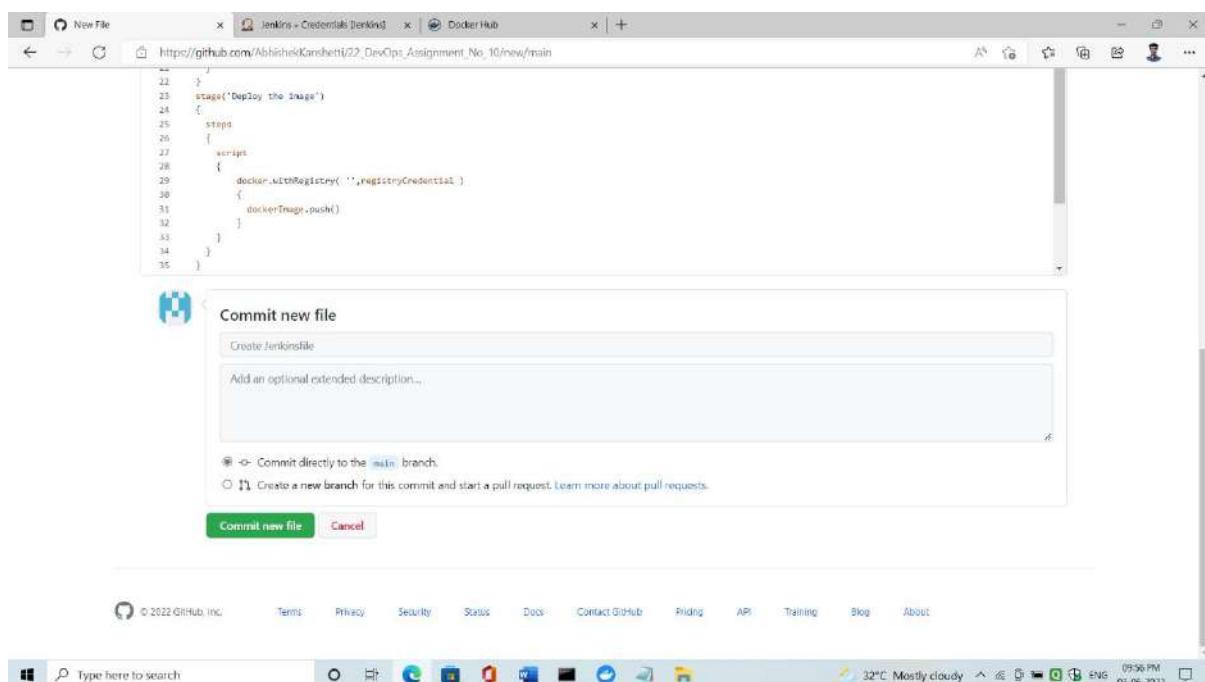
Title: Create a Jenkins pipeline to build and push Docker Image.



A screenshot of a Windows desktop environment. In the foreground, a GitHub commit dialog is open over a browser window. The browser window shows a GitHub repository page for 'AbhishekKanshetti/22_DevOps_Assignment_No_10'. The commit dialog contains the following Jenkinsfile code:

```
1 pipeline
2 {
3     environment
4     {
5         registry = "abhishekkanshetti/demoimage"
6         registryCredential = 'dockerci'
7         dockerImage = ''
8     }
9     agent any
10    stages
11    {
12        stage("Build image")
13        {
14            steps
15            {
16                script
17                {
18                    dockerImage = docker.build registry + ":${BUILD_NUMBER}"
19                }
20            }
21        }
22    }
23    stage("Deploy the image")
24    {
25        steps
26        {
27            script
28            {
29                docker.withRegistry( '',registryCredential )
30                {
31                    dockerImage.push()
32                }
33            }
34        }
35    }
}
```

Committing the “Jenkinsfile” as below: -



A screenshot of a GitHub commit dialog for a Jenkinsfile. The dialog includes fields for 'Create Jenkinsfile' and 'Add an optional extended description...'. Below these fields are two radio button options:

- Commit directly to the `main` branch.
- Create a new branch for this commit and start a pull request. Learn more about pull requests.

At the bottom of the dialog are 'Commit new file' and 'Cancel' buttons. The GitHub footer at the bottom of the screen includes links for Terms, Privacy, Security, Status, Docs, Contact GitHub, Pricing, API, Training, Blog, and About.

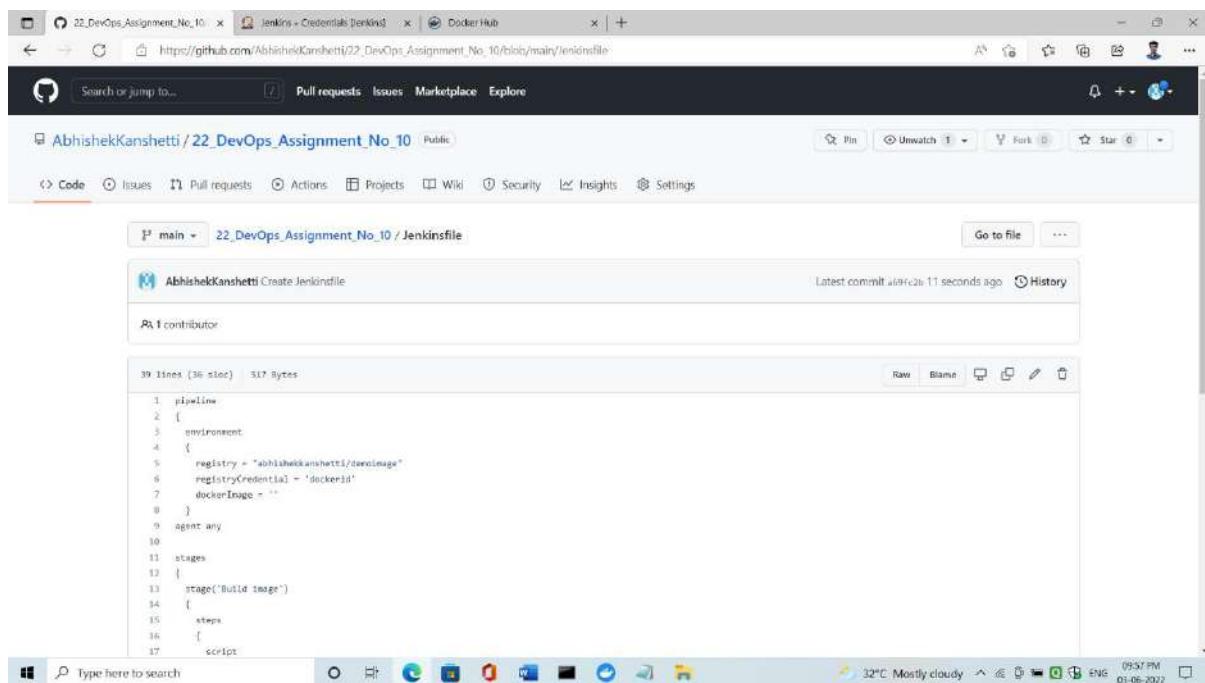
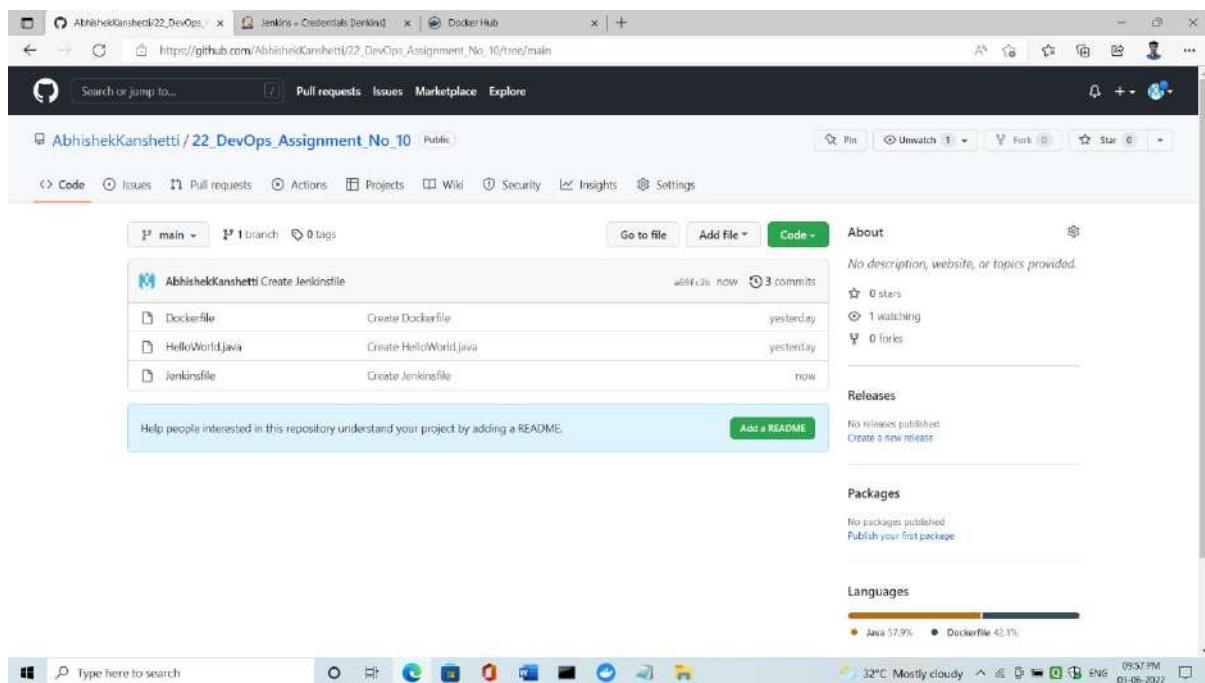
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.
Committed Jenkinsfile as below: -



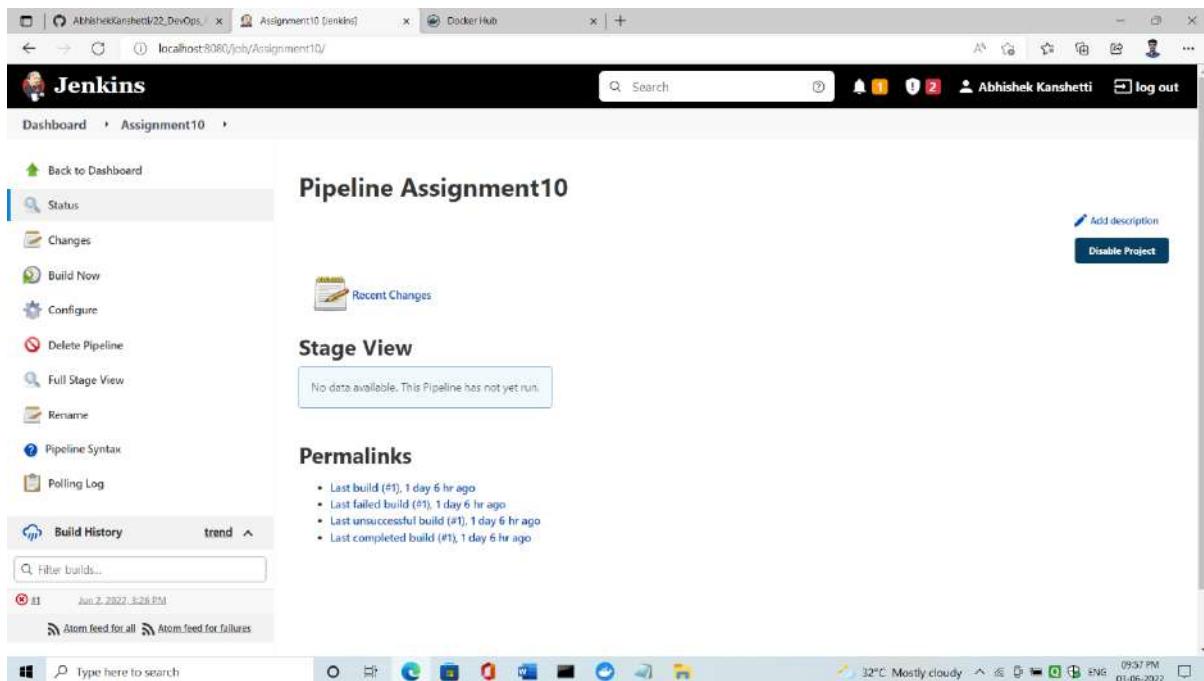
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Name: Abhishek Basavraj Kanshetti

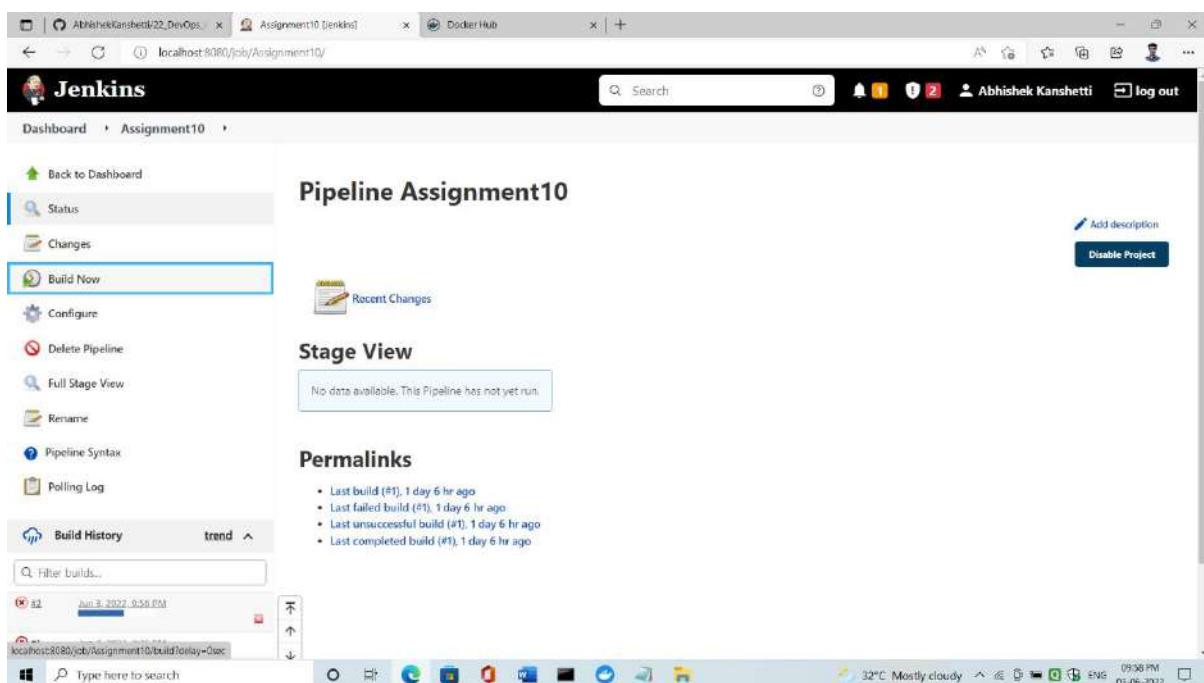
Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



Now In the Pipeline Job in Jenkins we will click on “Build Now” as below: -



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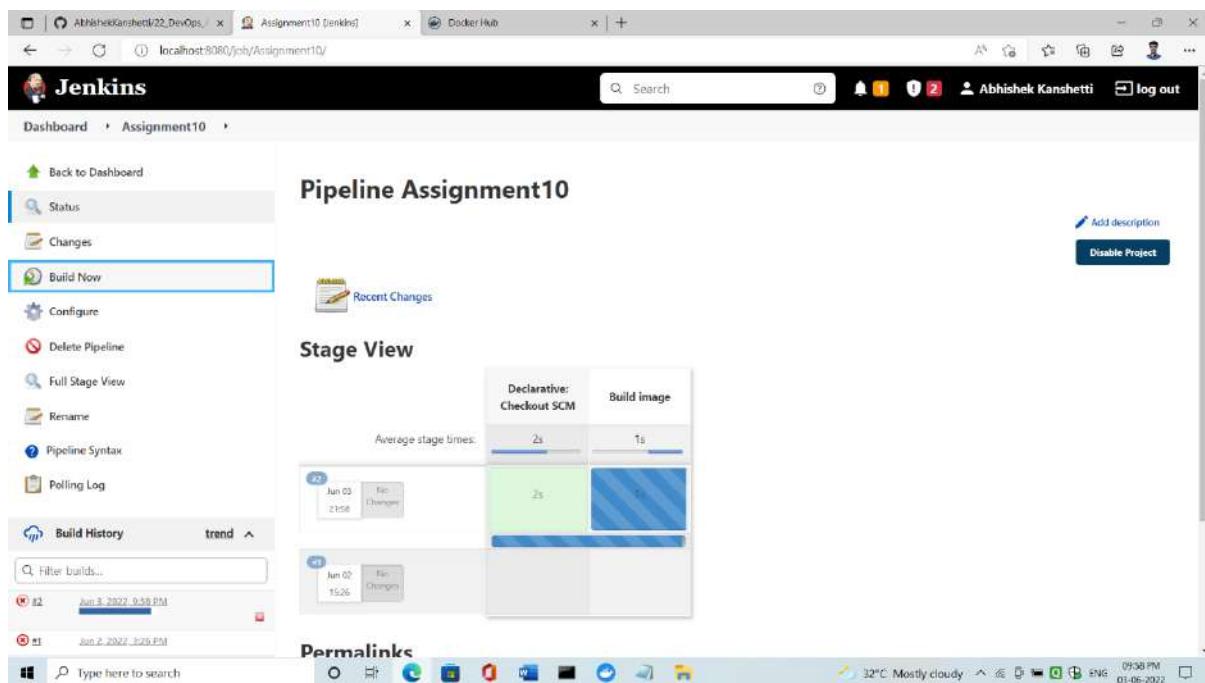
Name: Abhishek Basavraj Kanshetti

Roll No: 22

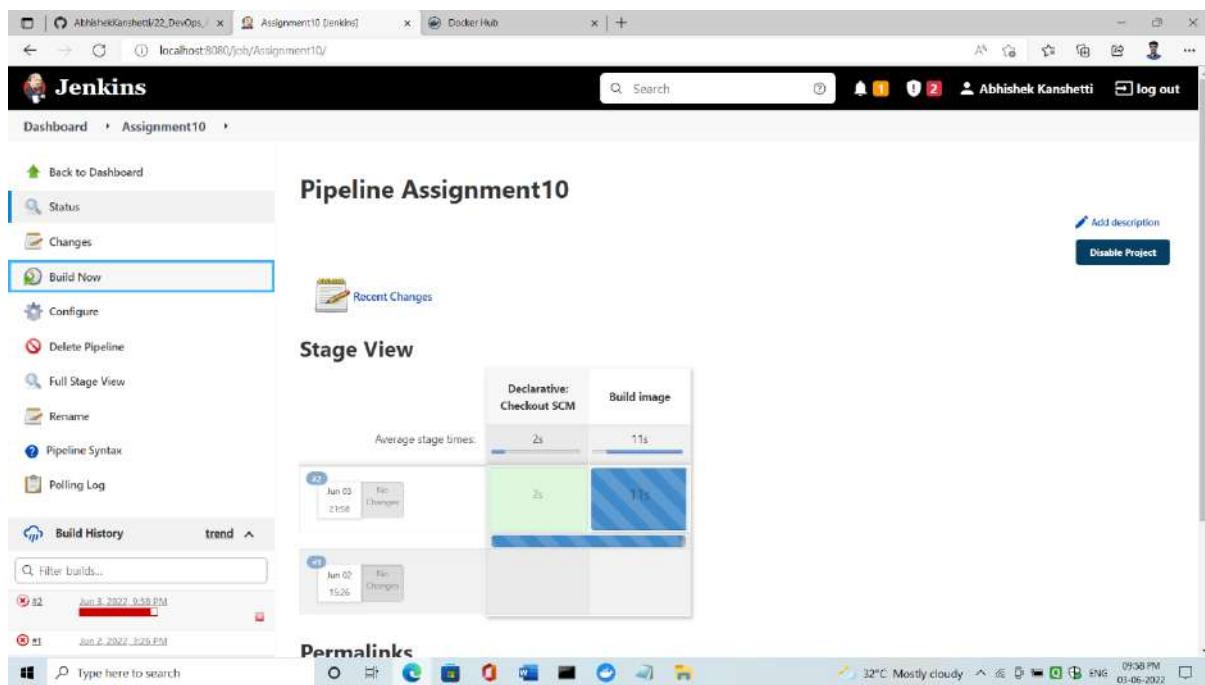
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Build is generating and Stage view is also generating as follow: -



The screenshot shows the Jenkins Pipeline Assignment10 stage view. The left sidebar includes options like Back to Dashboard, Status, Changes, Build Now (which is highlighted), Configure, Delete Pipeline, Full Stage View, Rename, Pipeline Syntax, and Polling Log. The main area displays a stage view with two stages: 'Declarative: Checkout SCM' and 'Build image'. Below these stages, it shows average stage times of 2s and 1s respectively. A timeline at the bottom indicates builds on June 03 and June 02, both labeled 'File Changes'. The Jenkins interface is set against a Windows desktop background with taskbar icons and system status.



This screenshot is identical to the one above, showing the Jenkins Pipeline Assignment10 stage view. It displays the same stages, average times, and build history. The Jenkins interface is consistent with the first screenshot, running on a Windows system.

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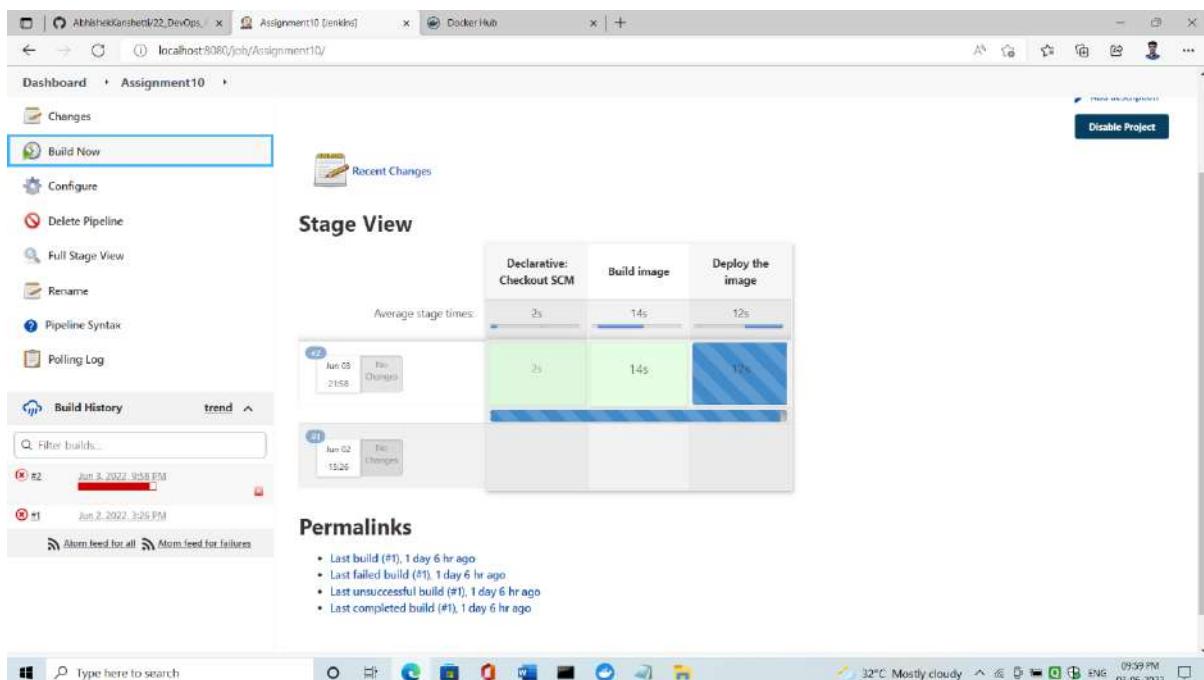
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

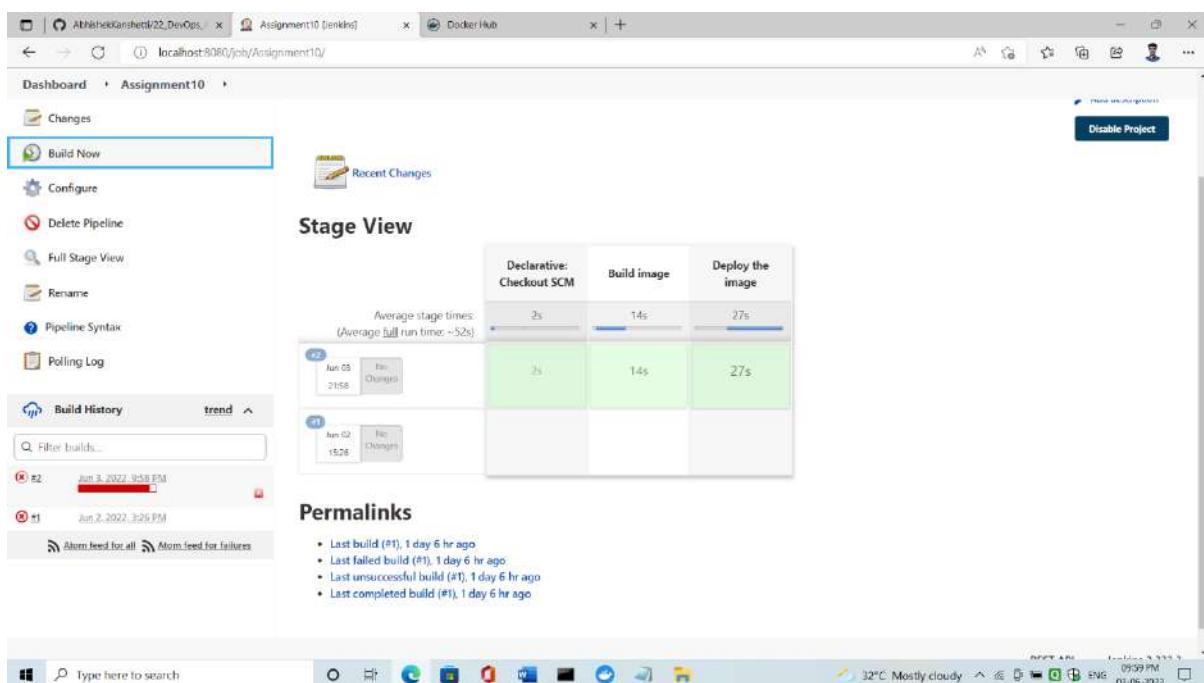
Title: Create a Jenkins pipeline to build and push Docker Image.

Stage Build Image is Successful as below: -



The screenshot shows the Jenkins Stage View for the 'Assignment10' job. The 'Stage View' section displays three stages: 'Declarative: Checkout SCM', 'Build image', and 'Deploy the image'. Each stage has an average stage time of 2s, 14s, and 12s respectively. Below the stages, two build logs are shown: 'Jun 03 21:58' and 'Jun 02 15:26', both indicating 'File Changes'. The Jenkins interface includes a sidebar with options like 'Changes', 'Build Now', 'Configure', and 'Pipeline Syntax'. A 'Build History' section shows builds from June 3, 2022, at 9:58 PM and June 2, 2022, at 3:26 PM. The Windows taskbar at the bottom shows the date as 01-06-2022 and the time as 09:59 PM.

Stage Deploy the Image is Successful as below: -



The screenshot shows the Jenkins Stage View for the 'Assignment10' job. The 'Stage View' section displays three stages: 'Declarative: Checkout SCM', 'Build image', and 'Deploy the image'. The 'Declarative: Checkout SCM' stage has an average stage time of 2s and an average full run time of ~52s. The 'Build image' stage has an average stage time of 14s. The 'Deploy the image' stage has an average stage time of 27s. Below the stages, two build logs are shown: 'Jun 03 21:58' and 'Jun 02 15:26', both indicating 'File Changes'. The Jenkins interface includes a sidebar with options like 'Changes', 'Build Now', 'Configure', and 'Pipeline Syntax'. A 'Build History' section shows builds from June 3, 2022, at 9:58 PM and June 2, 2022, at 3:26 PM. The Windows taskbar at the bottom shows the date as 01-06-2022 and the time as 09:59 PM.

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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.
Our Build is Successful as below: -

The screenshot shows the Jenkins interface for the 'Assignment10' pipeline. On the left, there's a sidebar with options like 'Changes', 'Build Now' (which is highlighted in blue), 'Configure', 'Delete Pipeline', 'Full Stage View', 'Rename', 'Pipeline Syntax', and 'Polling Log'. Below that is the 'Build History' section, which lists two builds: #2 (Jun 3, 2022, 9:58 PM) and #1 (Jun 2, 2022, 3:25 PM). The main area is titled 'Stage View' and displays three stages: 'Declarative: Checkout SCM' (2s), 'Build image' (14s), and 'Deploy the image' (27s). For both build runs, it says 'No Changes'. At the bottom, there's a 'Permalinks' section with links to the last four builds.

Console Output as below: -

The screenshot shows the Jenkins interface for the 'Assignment10' pipeline, specifically the 'Console Output' page for build #2. The output log is displayed in a large text area. It starts with the message 'Started by user Abhishek Kanshetti'. It then shows the Jenkinsfile being obtained from GitHub and the start of the pipeline. The log continues with the execution of the pipeline steps, including the 'Declarative: Checkout SCM' stage. A note indicates that a selected Git installation does not exist, so the Default tool is used. The log then shows the cloning of the remote Git repository from GitHub. It details the cloning process, including the use of 'git' version 2.35.1.windows.2 and the configuration of the 'GIT_ASKPASS' environment variable to set credentials for the Docker ID. The log concludes with the successful checkout of the specified revision and the configuration of the Docker image.

```

Started by user Abhishek Kanshetti
Obtained Jenkinsfile from git https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_10.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\Users\abish\jenkins\workspace\Assignment10
[Pipeline] {
[Pipeline] stage
[Pipeline] { [Declarative: Checkout SCM]
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
using credential dockerId
Cloning the remote Git repository
Cloning repository https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_10.git
> C:\Program Files\Git\bin\git.exe init C:\Users\abish\jenkins\workspace\Assignment10 # timeout=10
Fetching upstream changes from https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_10.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # git version 2.35.1.windows.2
using GIT_ASKPASS to set credentials dockerId
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_10.git
refs/heads/* refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/AbhishekKanshetti/22_DevOps_Assignment_No_10.git # timeout=10
> C:\Program Files\Git\bin\git.exe config --add remote.origin.fetch refs/heads/*:refs/remotes/origin/*
Avoid second fetch
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision a69fc2b5cb2a8d212180948110f751ffd984a84 (refs/remotes/origin/main)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f a69fc2b5cb2a8d212180948110f751ffd984a84 # timeout=10

```

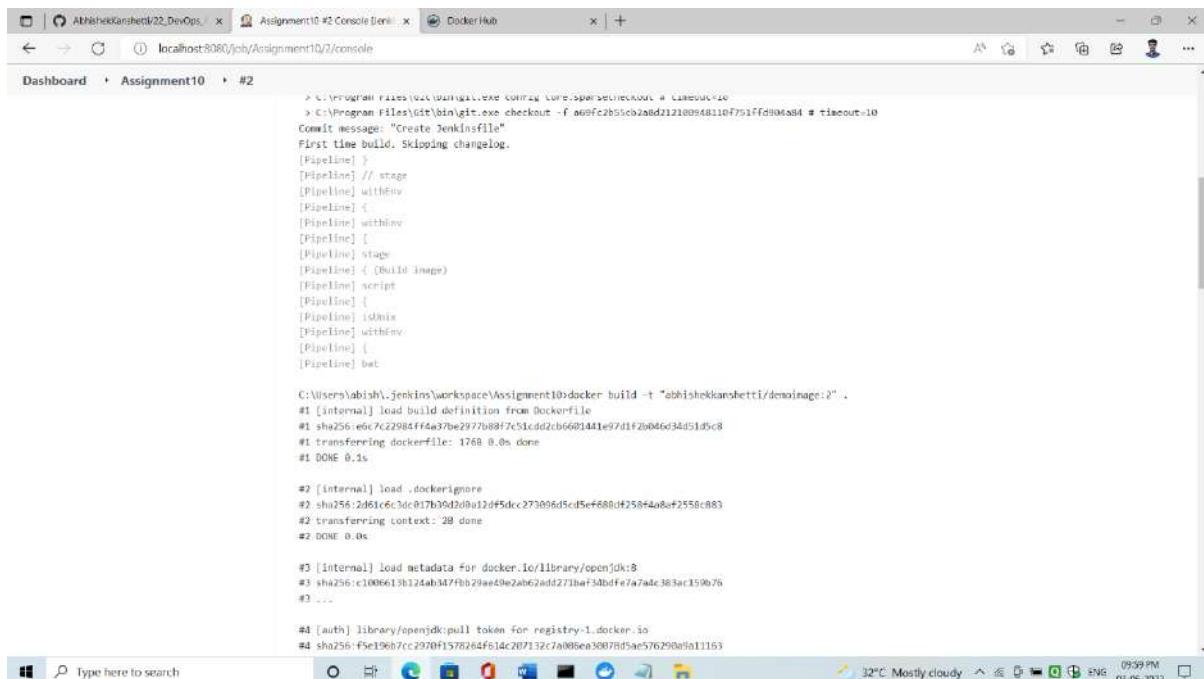
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Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



```

Dashboard > Assignment10 > #2
> C:\Program Files\Git\bin\git.exe config core.specificcheckout a
> C:\Program Files\Git\bin\git.exe checkout -f a@fc2b5ccb2abd12108948110f751ff9d90684 # timeout=10
Commit message: "Create Jenkinsfile"
First time build. Skipping changelog.
[Pipeline]
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] [
[Pipeline] stage
[Pipeline] { (Build image)
[Pipeline] script
[Pipeline] [
[Pipeline] isLinux
[Pipeline] withEnv
[Pipeline] [
[Pipeline] bat
[Pipeline] }

C:\Users\Abish\jenkins\workspace\Assignment10>docker build -t "abhishekkanshetti/demoimage:2" .
#1 [internal] load build definition from Dockerfile
#1 sha256:e6c7c229b4ff4a37be2977b887c51cd2cb6601441e97d1f2b046d34d51d5c8
#1 transferring dockerfile: 176B 0.0s done
#1 DONE 0.1s

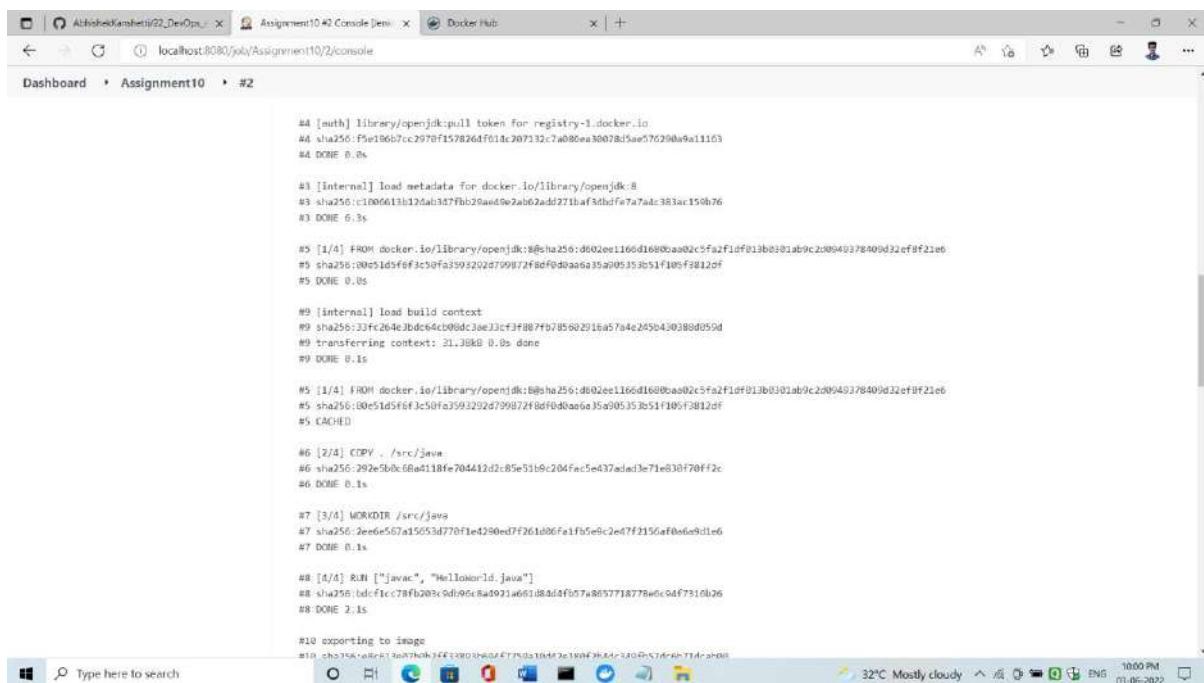
#2 [internal] load .dockerignore
#2 sha256:2d81c6c3dc91b7b39d28012d#5dc273096d5cf5e+680d#250#4a8af2550cb83
#2 transferring context: 28 done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/library/openjdk:8
#3 sha256:c100fe13b1b24ah347fb29ee69e2ab62add271baef3dbdf7e7ad3c383ac159b76
#3 ...

#4 [auth] library/openjdk:pull token for registry-1.docker.io
#4 sha256:f5e19eb7cc2970f157826af014c207132c7a085ea30078d5ae576290e0a11163
#4 ...

Type here to search 32°C Mostly cloudy 09:59 PM ENG 03-06-2022

```



```

Dashboard > Assignment10 > #2
<--> C:\Program Files\Git\bin\git.exe config core.specificcheckout a
<--> C:\Program Files\Git\bin\git.exe checkout -f a@fc2b5ccb2abd12108948110f751ff9d90684 # timeout=10
Commit message: "Create Jenkinsfile"
First time build. Skipping changelog.
[Pipeline]
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] [
[Pipeline] stage
[Pipeline] { (Build image)
[Pipeline] script
[Pipeline] [
[Pipeline] isLinux
[Pipeline] withEnv
[Pipeline] [
[Pipeline] bat
[Pipeline] }

#4 [auth] library/openjdk:pull token for registry-1.docker.io
#4 sha256:f5e19eb7cc2970f157826af014c207132c7a085ea30078d5ae576290e0a11163
#4 DONE 0.0s

#3 [internal] load metadata for docker.io/library/openjdk:8
#3 sha256:c100fe13b1b24ah347fb29ee69e2ab62add271baef3dbdf7e7ad3c383ac159b76
#3 DONE 0.3s

#5 [1/4] FROM docker.io/library/openjdk:8@sha256:d602ee1166d16800aa02c5fa2f1d013b0301ab9c2d0040378409d32ef9f21e6
#5 sha256:00051d5f6fc3c50f3a3593202d799972f8fd0d0aa6a35a005353b51f105f3812d
#5 DONE 0.0s

#6 [internal] load build context
#6 sha256:33fc264e3bdc4ec00dc3ae77cfc3f88fb78560291ea57a4e2450430380d059d
#6 transferring context: 21.30KB 0.0s done
#6 DONE 0.0s

#5 [1/4] FROM docker.io/library/openjdk:8@sha256:d602ee1166d16800aa02c5fa2f1d013b0301ab9c2d0040378409d32ef9f21e6
#5 sha256:00051d5f6fc3c50f3a3593202d799972f8fd0d0aa6a35a005353b51f105f3812d
#5 DONE 0.0s

#6 [2/4] COPY . /src/java
#6 sha256:29e5b0c6fa4118fe704412d2:85e51b9c204fec5ed37ad3e71e830f70ff2c
#6 DONE 0.1s

#7 [3/4] WORKDIR /src/java
#7 sha256:2e66e567a15053d770f1e498edff261db06fa1fb5e9c2e67f2156af0e6e91e6
#7 DONE 0.1s

#8 [4/4] RUN ["javac", "HelloWorld.java"]
#8 sha256:1dcf1ec78fb209c9d96c8a3931a661d88d8fb57a8657718778e6c94f7316b26
#8 DONE 2.1s

#10 exporting to image
#10 sha256:aef612a07974419934604775da104f3e1904f944c340f785746711d-a-p0
#10 chattr+u ./*.jar

32°C Mostly cloudy 10:00 PM ENG 03-06-2022

```

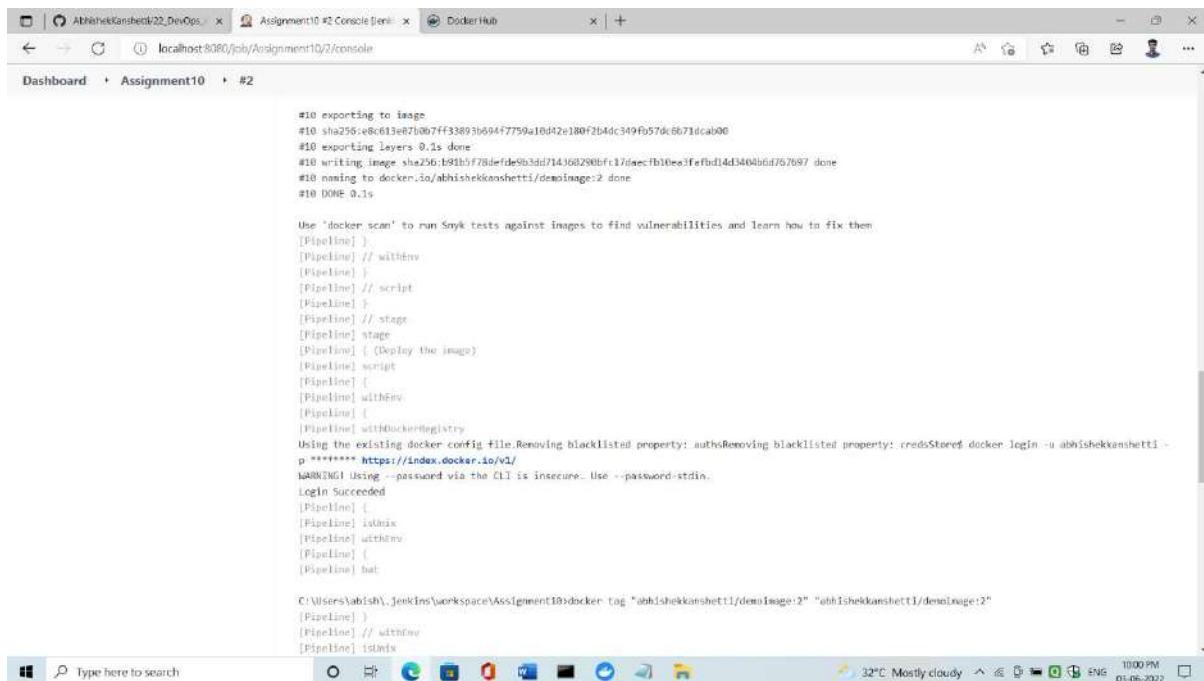
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2021-22 SEMESTER-II
DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

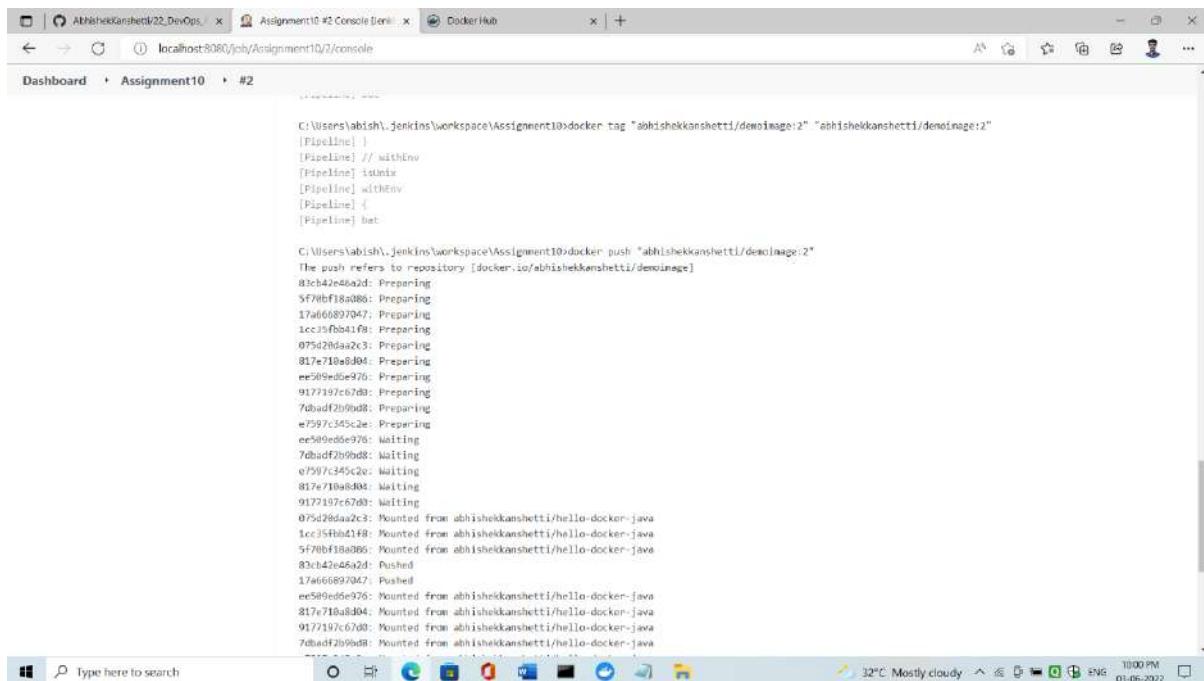


```
#10 exporting to image
#10 sha256:e8c613e87b0b7ff33893b694f7759a10d42e180f2b4dc349fb57dc6b71dcab00
#10 exporting layers 0.1s done
#10 writing image sha256:b91b5f78defde9b3dd714368290bf17daecfb10ee3faefbd14d3404b6f767697 done
#10 naming to docker.io/abhishekkanshetti/demoimage:2 done
#10 DONE 0.1s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // script
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy the image)}
[Pipeline] script
[Pipeline]
[Pipeline] withEnv
[Pipeline]
[Pipeline] withDockerRegistry
Using the existing docker config file. Removing blacklisted property: authsRemoving blacklisted property: credsStore$ docker login -u abhishekkanshetti -p ***** https://index.docker.io/v1/
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
Login Succeeded
[Pipeline]
[Pipeline] ismix
[Pipeline] withEnv
[Pipeline]
[Pipeline] bat

C:\Users\abish\Jenkins\workspace\Assignment10>docker tag "abhishekkanshetti/demoimage:2" "abhishekkanshetti/demoimage:2"
[Pipeline]
[Pipeline] // withEnv
[Pipeline] ismix

32°C Mostly cloudy 10:00 PM 03-06-2022
```



```
C:\Users\abish\Jenkins\workspace\Assignment10>docker tag "abhishekkanshetti/demoimage:2" "abhishekkanshetti/demoimage:2"
[Pipeline]
[Pipeline] // withEnv
[Pipeline] ismix
[Pipeline] withEnv
[Pipeline]
[Pipeline] bat

C:\Users\abish\Jenkins\workspace\Assignment10>docker push "abhishekkanshetti/demoimage:2"
The push refers to repository [docker.io/abhishekkanshetti/demoimage]
83c42ed6add: Preparing
5f70fb18a08c: Preparing
17a666897047: Preparing
1cc55fb41f08: Preparing
0752b0da2e3: Preparing
817e710a8d04: Preparing
ee599fd6976: Preparing
917197c67d08: Preparing
7dbad72b90d8: Preparing
e7597c345c2e: Preparing
ee599fd6976: Waiting
7dbad72b90d8: Waiting
e7597c345c2e: Waiting
817e710a8d04: Waiting
917197c67d08: Waiting
0752b0da2e3: Mounted from abhishekkanshetti/hello-docker-java
1cc55fb41f08: Mounted from abhishekkanshetti/hello-docker-java
5f70fb18a08c: Mounted from abhishekkanshetti/hello-docker-java
83c42ed6add: Pushed
17a666897047: Pushed
ee599fd6976: Mounted from abhishekkanshetti/hello-docker-java
817e710a8d04: Mounted from abhishekkanshetti/hello-docker-java
917197c67d08: Mounted from abhishekkanshetti/hello-docker-java
7dbad72b90d8: Mounted from abhishekkanshetti/hello-docker-java

32°C Mostly cloudy 10:00 PM 03-06-2022
```

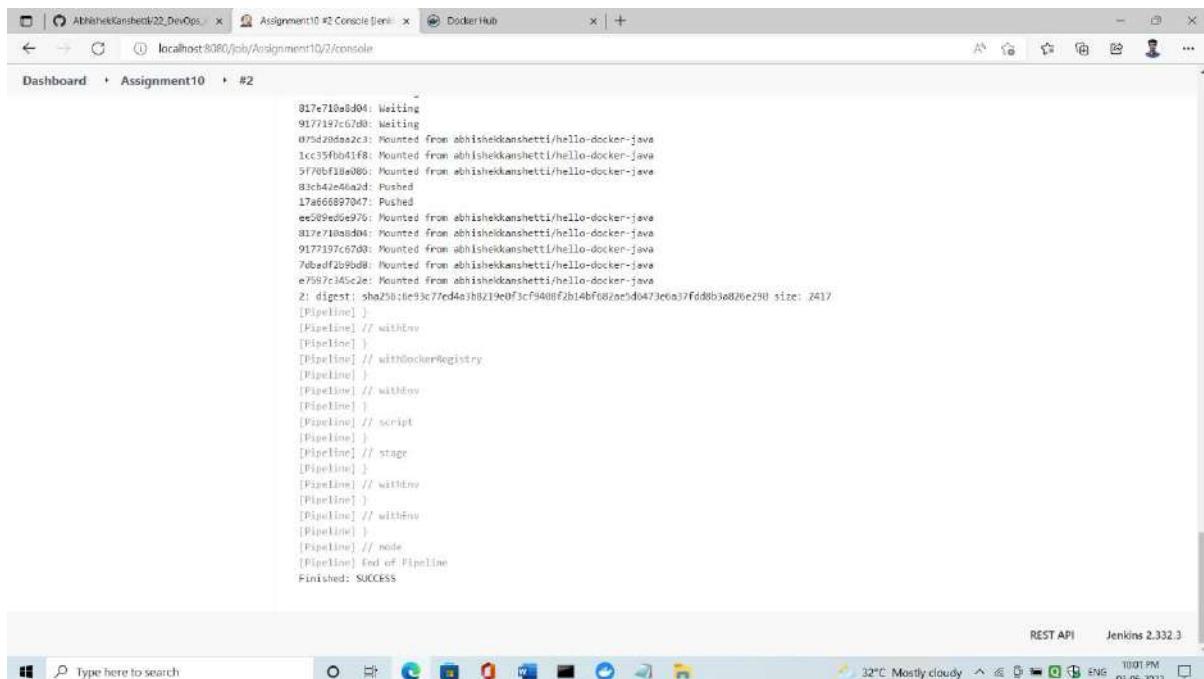
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DEVOPS

Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

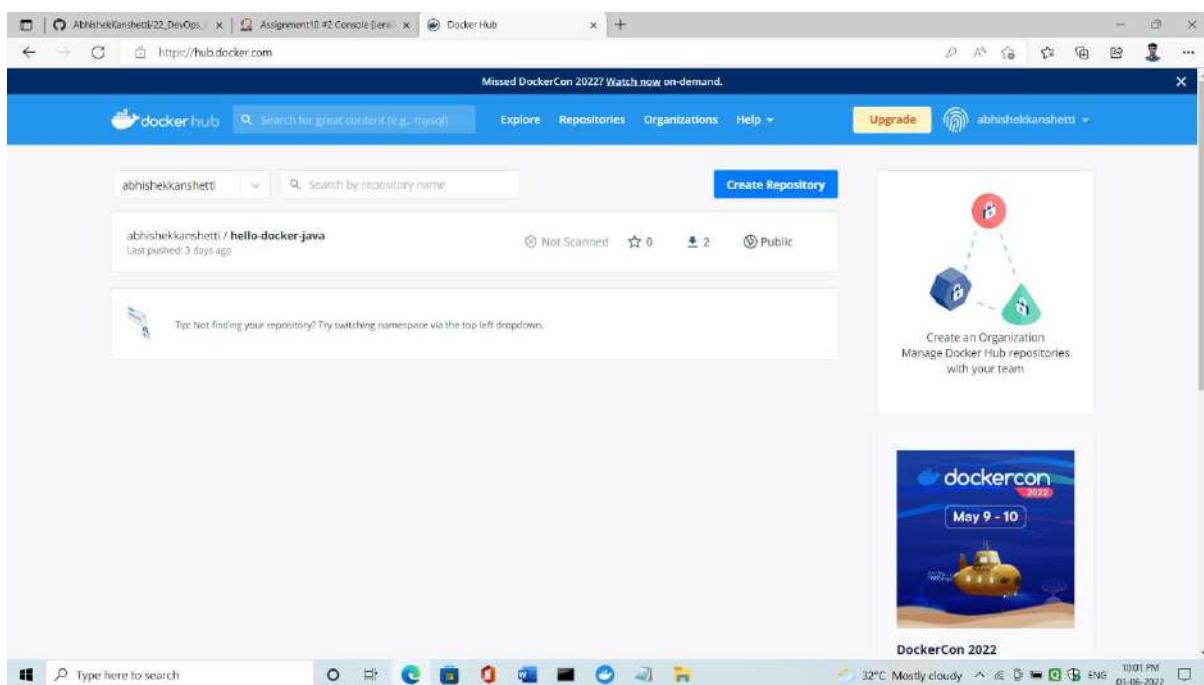


The screenshot shows a Windows desktop environment. A browser window is open, displaying Jenkins logs for a job named 'Assignment10 #2'. The logs show a successful pipeline execution:

```
817e7108d04: Waiting
917197c67d0: Waiting
075d20daa2c3: Mounted from abhishekkanshetti/hello-docker-java
1cc359b041f8: Mounted from abhishekkanshetti/hello-docker-java
5f70bf1ba080: Mounted from abhishekkanshetti/hello-docker-java
83cb42ed0a0d: Pushed
17a666897047: Pushed
ee099ed0e97b: Mounted from abhishekkanshetti/hello-docker-java
817197c67d0: Mounted from abhishekkanshetti/hello-docker-java
917197c67d0: Mounted from abhishekkanshetti/hello-docker-java
7dbdef12b90d0: Mounted from abhishekkanshetti/hello-docker-java
e7937e345ce: Mounted from abhishekkanshetti/hello-docker-java
2: digest: sha256:fe93c77ed4e3b219e0f3cf940ff2b14bf082ae5d0473e6a37fd8b3a826e290 size: 2417
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // withDockerRegistry
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // script
[Pipeline]
[Pipeline] // stage
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

The taskbar at the bottom of the screen shows several icons, including the Jenkins icon, indicating it is running in the background.

Now we will refresh the Docker Hub Page as below: -



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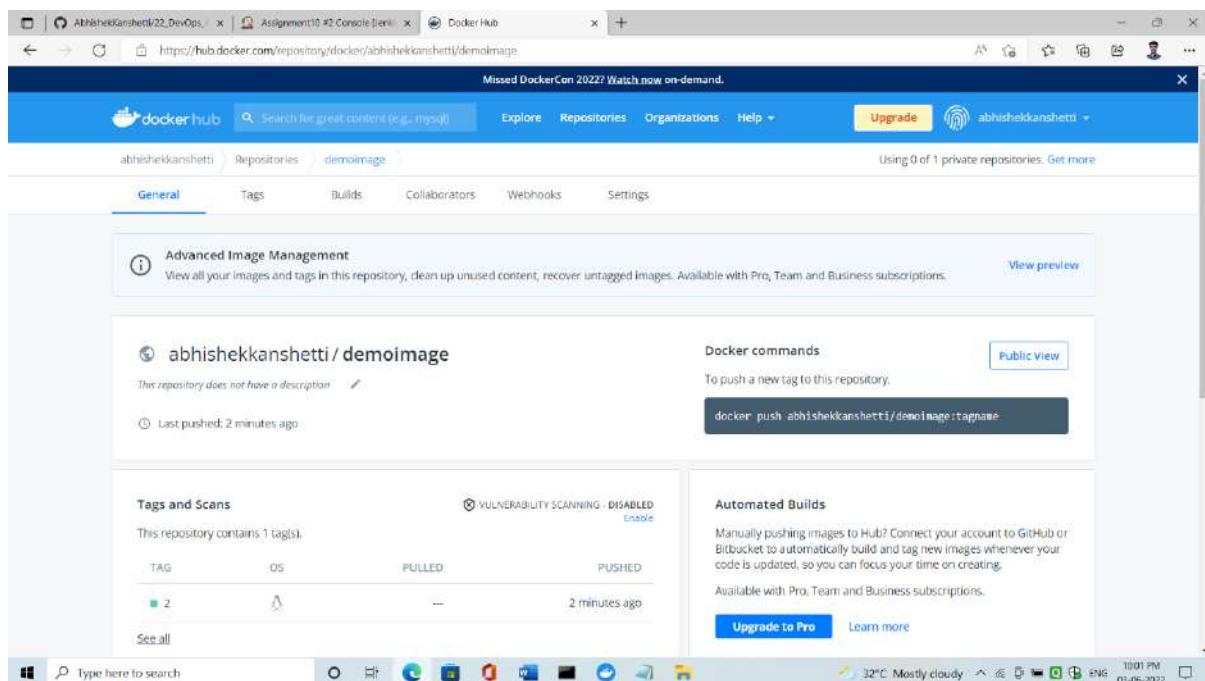
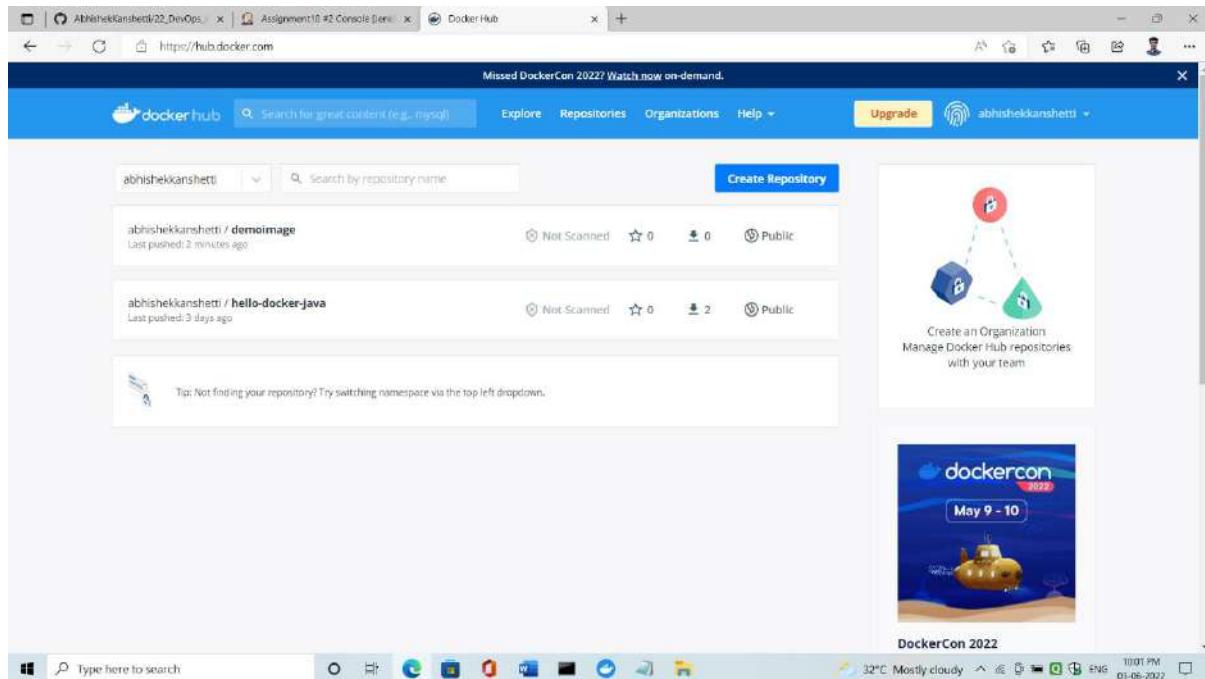
Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Here we can see our Docker Image is Pushed to Docker Hub as below: -



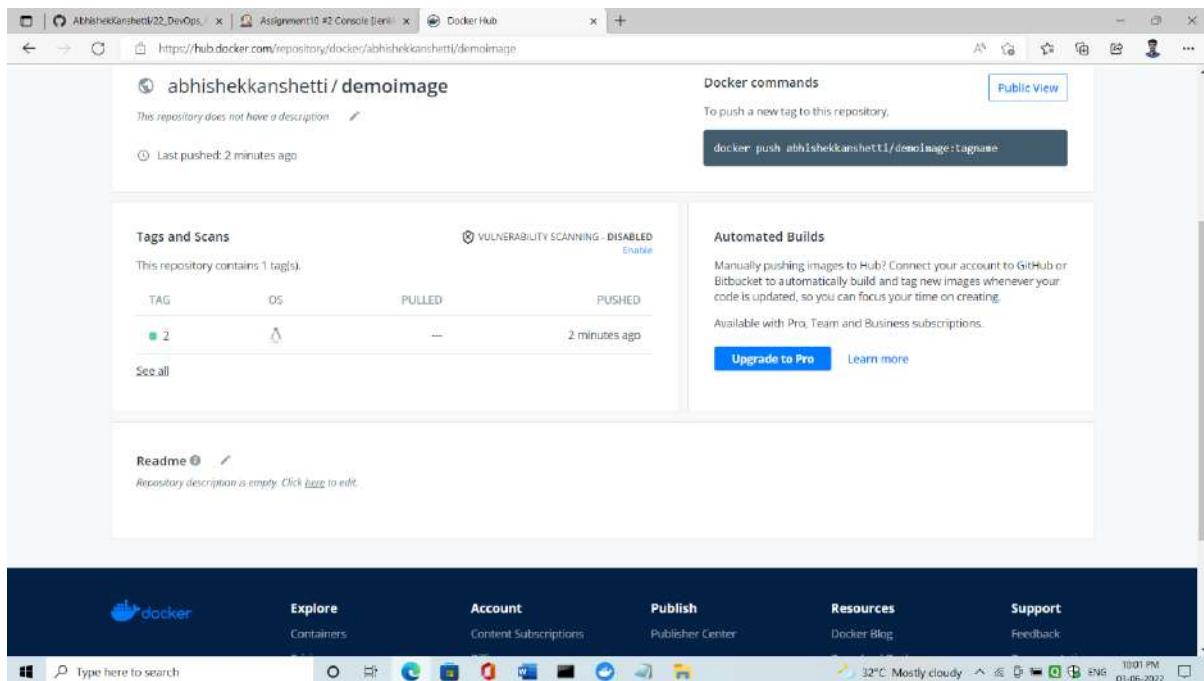
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Name: Abhishek Basavraj Kanshetti

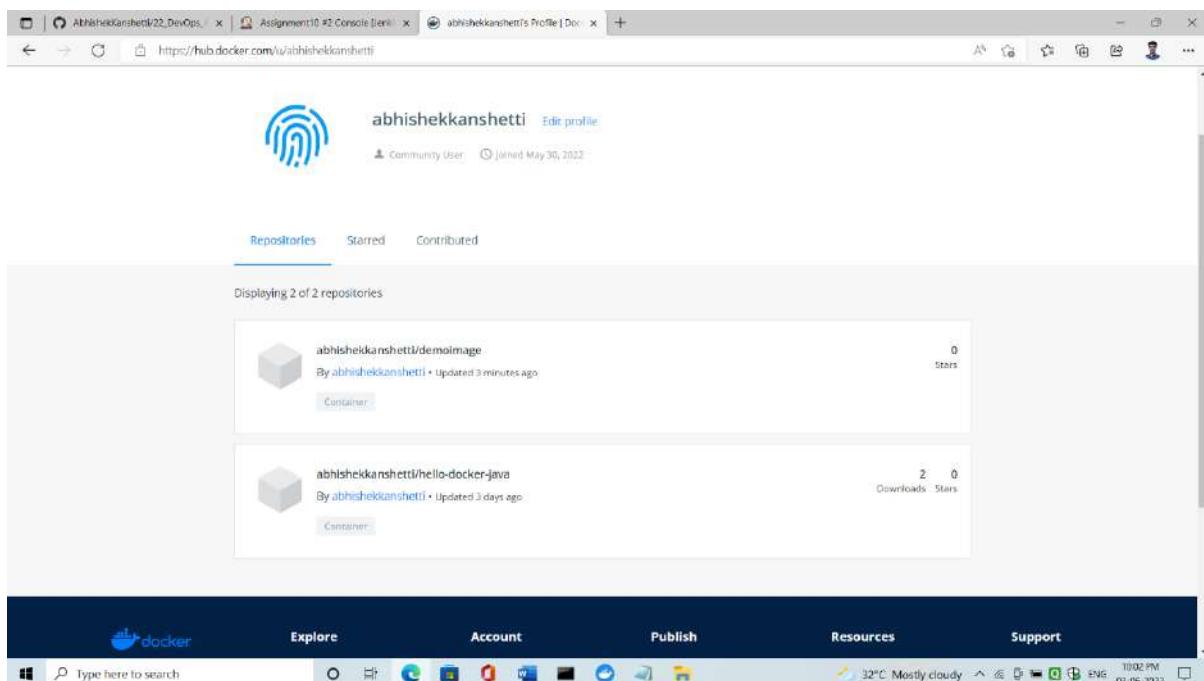
Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



The screenshot shows the Docker Hub interface for the repository `abhishekkanshetti/demoimage`. The repository page includes sections for Docker commands, Tags and Scans, and Automated Builds. A terminal window at the bottom shows the command `docker push abhishekkanshetti/demoimage:tagname`.



The screenshot shows the Docker Hub user profile for `abhishekkanshetti`. It displays two repositories: `abhishekkanshetti/demoimage` and `abhishekkanshetti/hello-docker-java`.

Repository	Owner	Last Updated	Stars
<code>abhishekkanshetti/demoimage</code>	<code>abhishekkanshetti</code>	3 minutes ago	0
<code>abhishekkanshetti/hello-docker-java</code>	<code>abhishekkanshetti</code>	3 days ago	2

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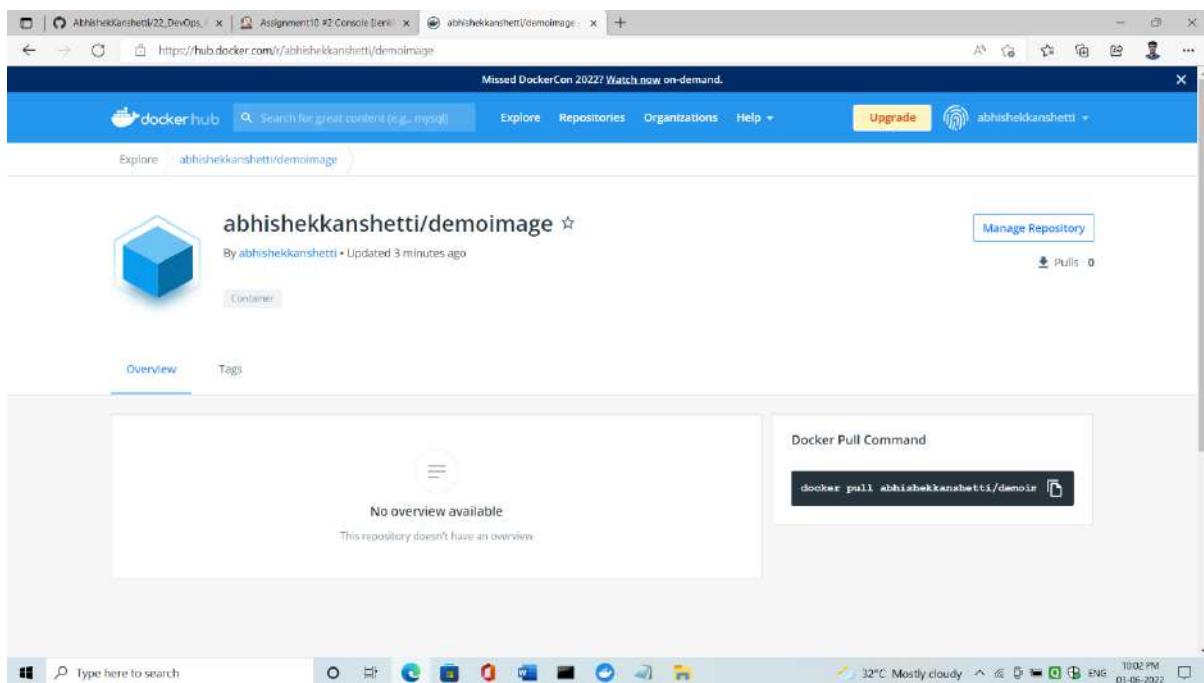
Name: Abhishek Basavraj Kanshetti

Roll No: 22

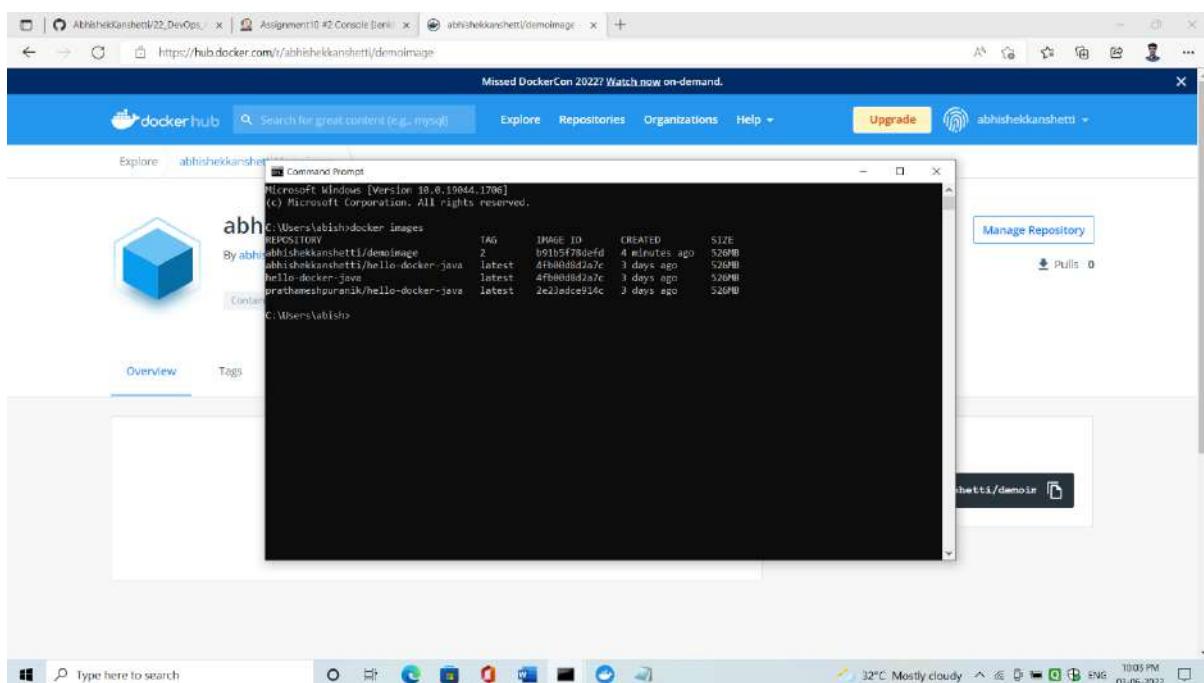
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Public View as below: -



Now we will Pull our Docker Image as below: -



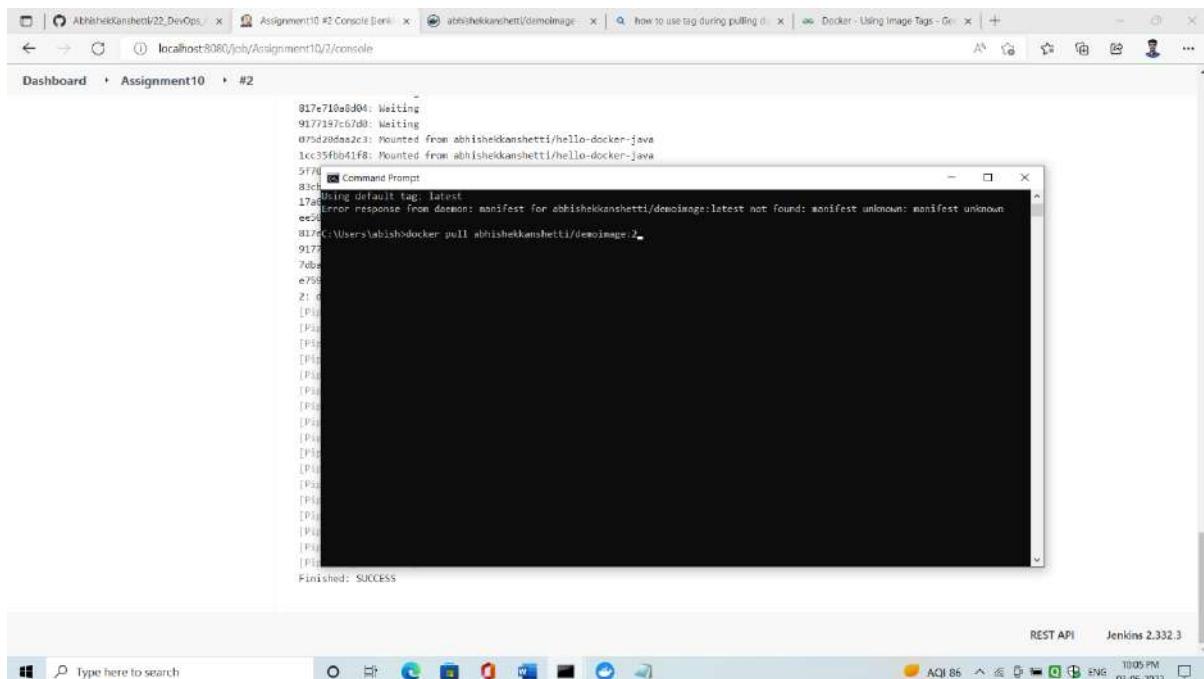
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Name: Abhishek Basavraj Kanshetti

Roll No: 22

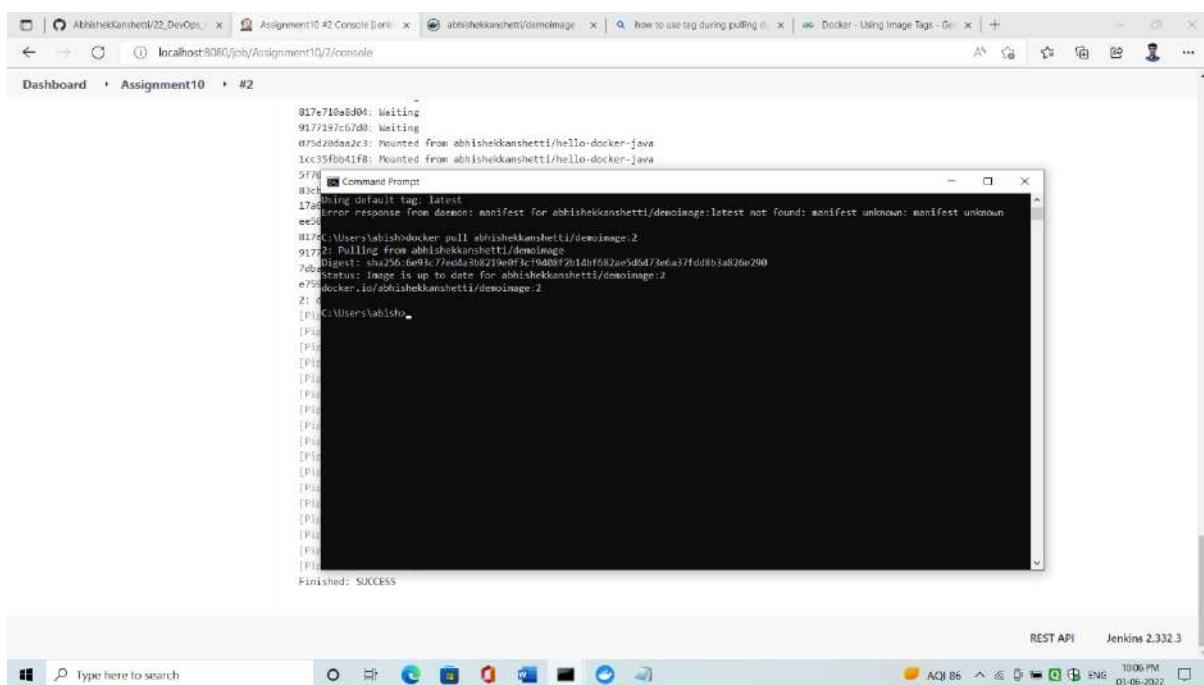
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.



A screenshot of a Windows desktop environment. At the top, there's a taskbar with several open browser tabs. One tab shows the Jenkins dashboard for a job named 'Assignment10'. Below the taskbar is a standard Windows Start menu. In the center of the screen is a Command Prompt window with a black background and white text. The text in the window shows the command 'docker pull abhishekkanshetti/demoimage:2' being run, followed by a series of status messages from Docker regarding image pulling and manifest retrieval. The command concludes with 'Finished: SUCCESS'.

Image is pulled and Our Image is Up to date as follow: -



A screenshot of a Windows desktop environment, similar to the one above. It shows a taskbar with multiple browser tabs, including the Jenkins dashboard for 'Assignment10'. The central part of the screen features a Command Prompt window with a black background and white text. This window displays the same 'docker pull' command and its execution details as the previous screenshot. The output ends with 'Finished: SUCCESS'. The system tray at the bottom right shows the date and time as '03-06-2022 10:05 PM'.

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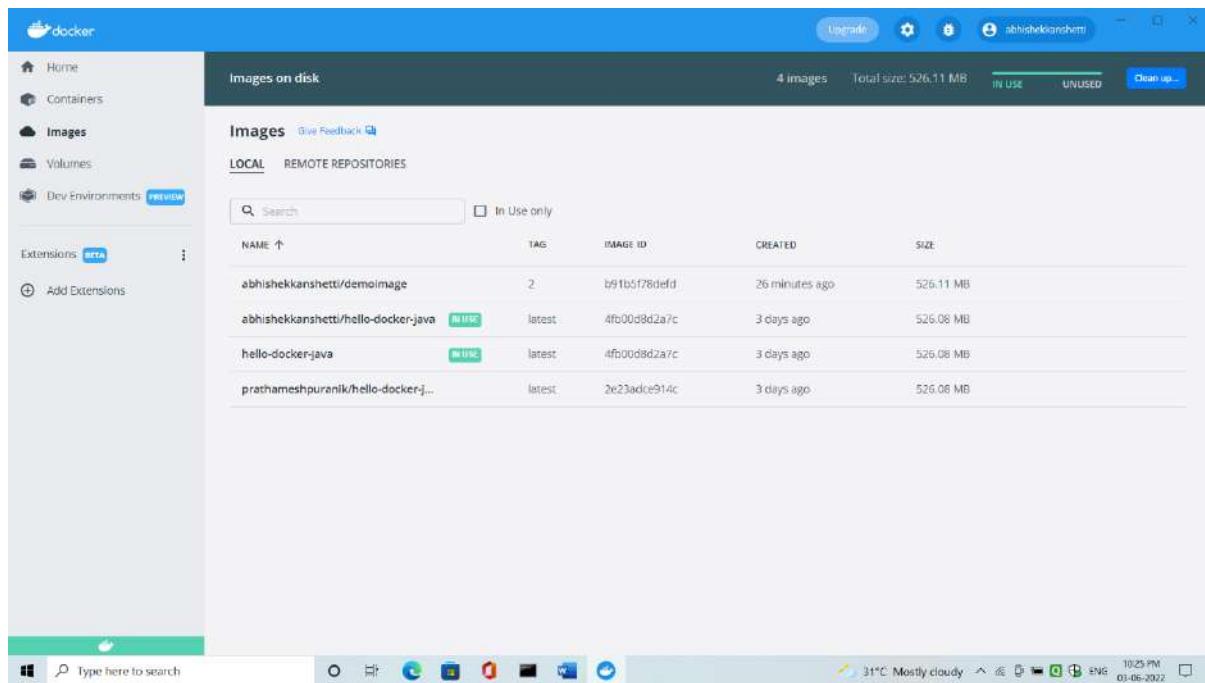
Name: Abhishek Basavraj Kanshetti

Roll No: 22

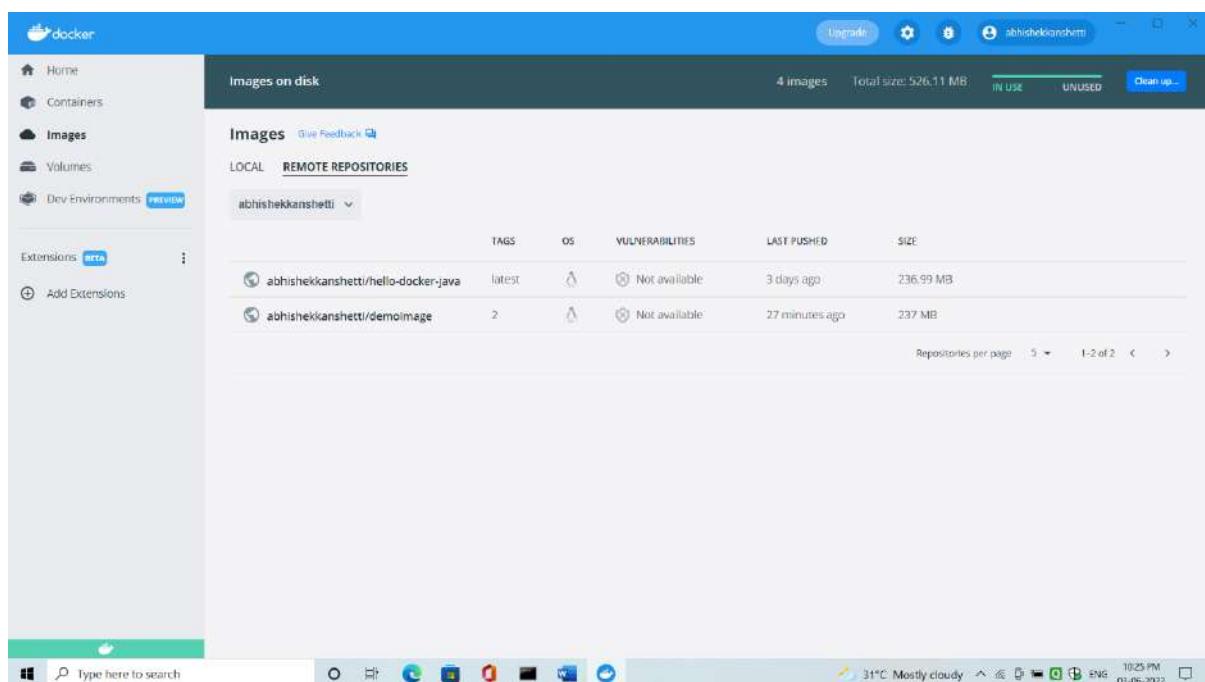
ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

In Image we can see, Pulled image on local machine as follow:-



In Images we can see our images on Remote Repositories as follow:-



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Name: Abhishek Basavraj Kanshetti

Roll No: 22

ASSIGNMENT NO: 10

Title: Create a Jenkins pipeline to build and push Docker Image.

Now we will run our docker Image as follow to get Output as below: -

