# CLOUD COMPUTING ASSIGNMENT – 2

Name: Sanmat Sanjayakumar Payagoudar

SRN: PES1UG20CS385

Section: G

### **TASK - 1:**

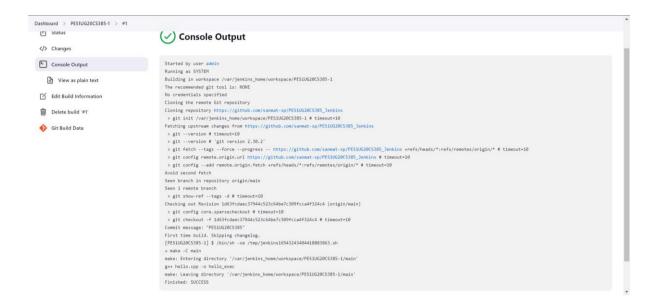
 Screenshot of the running Docker Container after installing Jenkins

```
2023-02-15 08:47:56.598-9809 [id=39] INFO jenkins.InitReactorRunner$IRonAttained: Prepared all plugins
2023-02-15 08:47:56.066-06909 [id=39] INFO jenkins.InitReactorRunner$IRonAttained: Started all plugins
2023-02-15 08:47:56.999-9809 [id=40] INFO jenkins.InitReactorRunner$IRonAttained: Started all plugins
2023-02-15 08:47:56.999-9809 [id=40] INFO jenkins.InitReactorRunner$IRonAttained: started all plugins
2023-02-15 08:47:57.099-9809 [id=40] INFO jenkins.InitReactorRunner$IRonAttained: system config adapted
2023-02-15 08:47:57.099-9809 [id=37] INFO jenkins.InitReactorRunner$IRonAttained: System config adapted
2023-02-15 08:47:57.099-9809 [id=37] INFO jenkins.InitReactorRunner$IRonAttained: Configuration for all jobs updated
2023-02-15 08:47:57.099-9809 [id=60] INFO down.util.Retrierstart: Attempt #I to do the action check updates server

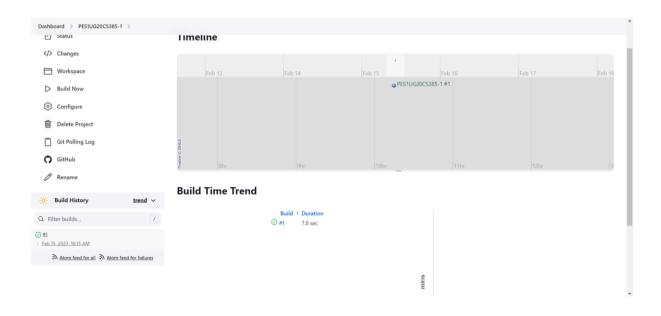
WARNING: An illegal reflective access operation has occurred
WARNING: An illegal reflective access operation has occurred
WARNING: Dise --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of further illegal reflective access operations
WARNING: Use --illegal-access=man to enable marnings of furthe
```

## **TASK - 2:**

1. Picture showing the console output after the build is successful

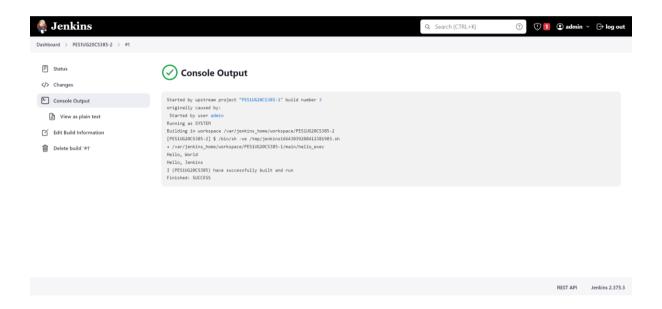


2. Picture showing the Stable state of the task in Build History of Jenkins

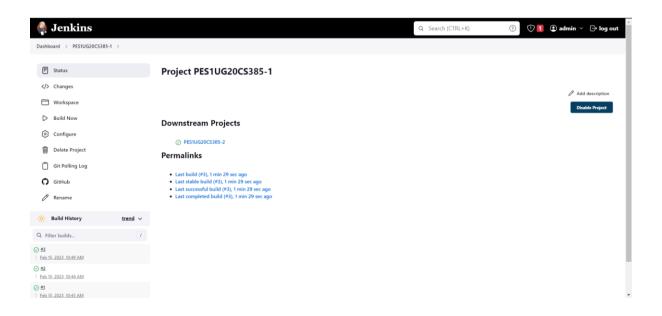


# <u>TASK - 3:</u>

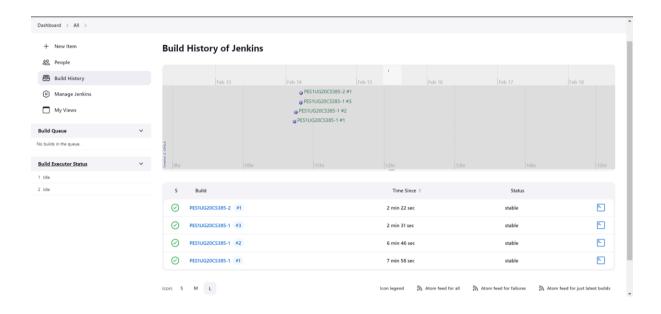
1. Console output of second job



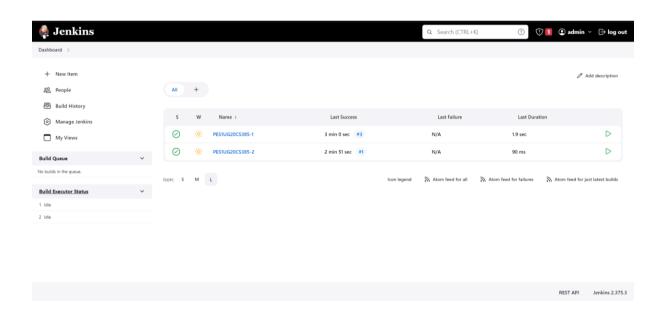
2. Status page of first job



### 3. Build History of Jenkins

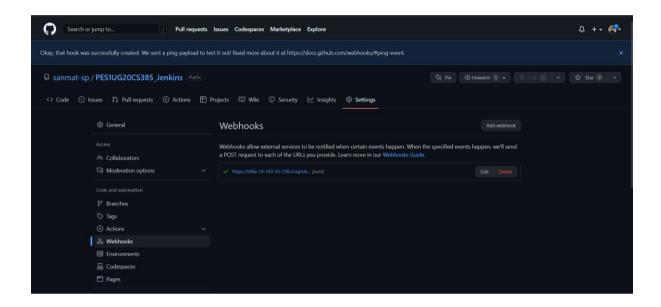


### 4. Jenkins Dashboard

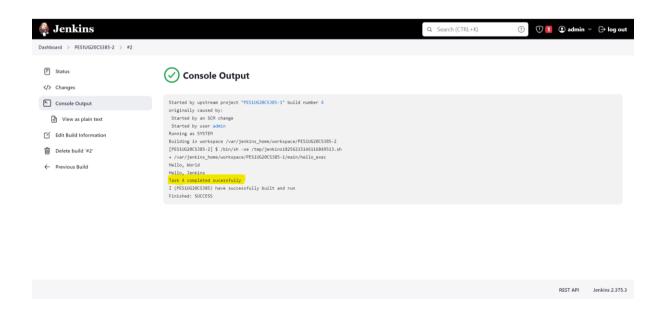


## **TASK - 4:**

1. Webhook added to your GitHub repository



2. Console Output of second job displaying the change made in hello.cpp file



# **TASK - 5:**

1. Code written to create basic pipeline using GitHub repository

```
pipeline {
    agent any

stages {
    stage('Build') {
    steps {
        sh 'g++ -0 385 385.cpp'
        build job: 'PE51UG20CS385-1'
    }

    stage('Test') {
        steps {
            sh './385'
        }

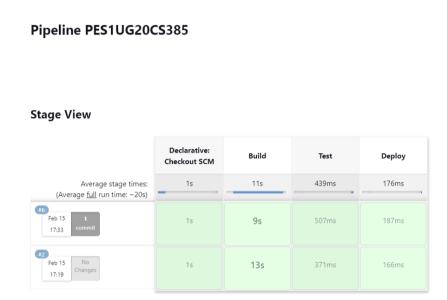
    stage('Deploy') {
        steps {
            echo 'Deployment successfully'
        }

        post {
        failure {
            echo 'Pipeline failed'
        }
     }

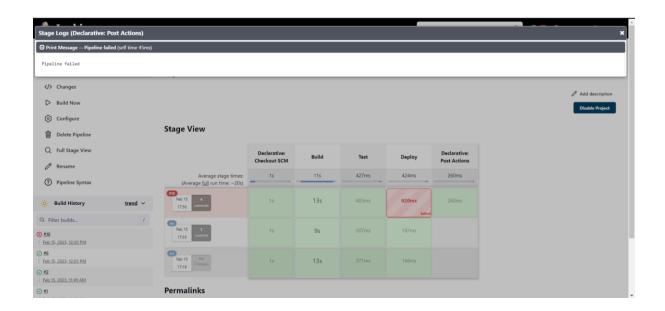
     }

}
```

- 2. Output of working created pipeline, the screenshot should include
  - Stage view / Execution status of pipeline with all stages succeeded



Verify Declarative: Post Actions stage succeed for handling failures



### 3. Console Output of the Pipeline (Successful Pipeline)

- Build and Test stage

```
Commit message: "Update Jenkinsfile"
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
+ g++ -o 385 385.cpp
[Pipeline] build (Building PES1UG20CS385-1)
Scheduling project: PES1UG20CS385-1
Starting building: PES1UG20CS385-1 #13
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
+ ./385
Task 5 completed successfully (PES1UG20CS385)
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
```

- Deployment and Success

```
Deployment successfully

[Pipeline] }

[Pipeline] // stage

[Pipeline] }

[Pipeline] // withEnv

[Pipeline] }

[Pipeline] // node

[Pipeline] End of Pipeline

Finished: SUCCESS
```

4. Link to the created GitHub repository
https://github.com/sanmat-sp/PES1UG20CS385 Jenkins