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SRN: PES2UG21CS315

SEC:6F

Assignment 4(a)

TASK1

1.screenshot of the running Docker Container after installing Jenkins

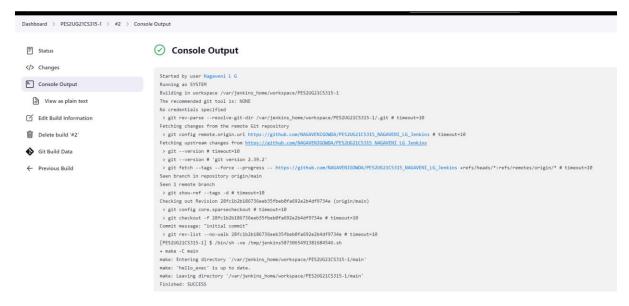
```
SC.\Users\Prafa\Dom\index\Dem\index\Dem\index\Dem\index\ins\lab-main\Dockerfile> docker run -p 8090:8080 -p 50002:50000 -it jenkins:PE52UG2ICS315

Running from: /usr\share/jenkins.bose/war
2024-03-05 13:46:35.122+0000 [id=1]
2024-03-05 13:46:35.122+0000 [id=1]
2024-03-05 13:46:31.1719+0000 [id=1]
2024-03-05 13:46:31.1719+0000 [id=1]
2024-03-05 13:46:31.271+0000 [id=1]
2024-03-05 13:46:31.261+0000 [id=2]
2024-03-05 13:46:31.261+0000 [id=2]
2024-03-05 13:46:31.261+0000 [id=3]
2024-03-05 13:46:31.261+0000 [id=3]
2024-03-05 13:46:48.271+0000 [id=3]
2024-03-05 13:46:48
```

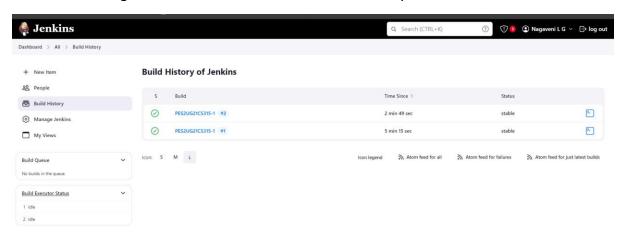
```
2024—03-05 13:55:19.99496080 [id=37] INFO push-80080 [id=61] INFO hudson.lifecycle.lifecycle@ondeady: Jenkins is fully up and running hudson.tasks.Maven.MavenInstaller 2024—03-05 13:55:19.99496080 [id=61] INFO hudson.lifecycle.lifecycle@ondeadsleEload: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller 2024—03-05 13:55:19.99496080 [id=61] INFO hudson.pugnifManager#install.Starting installation of a batch of 21 plugins plus their dependencies hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of ionicons-api for plugin cloudbees-folder hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of form.pugnifHanger#installs.Starting installation of a batch of 21 plugins plus their dependencies hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of ionicons-api for plugin cloudbees-folder hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of form.path-api for plugin build-timeout hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of structs for plugin build-timeout hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of structs for plugin token-macro hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of structs for plugin token-macro hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of portions-api hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of gson-api for plugin trilead-api hudson.edel.UpdateSiteSPlugin#deploy: Adding dependent install of gson-api for plugin shc-credentials-binding sport properties adding dependent install of gson-api for plugin insteramper hudson.edel.UpdateSiteSPlugin#deploy: Adding de
```

Task 2

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

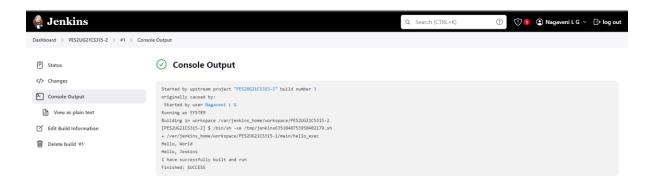


2. Picture showing the Stable state of the task in Build History of Jenkins

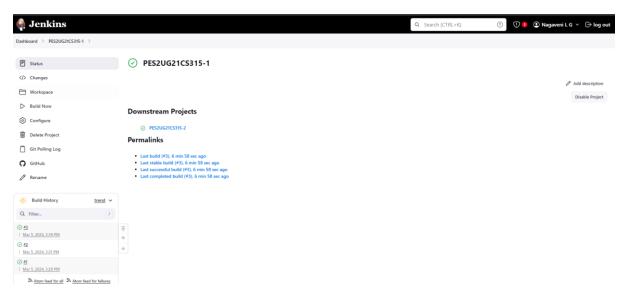


Task3

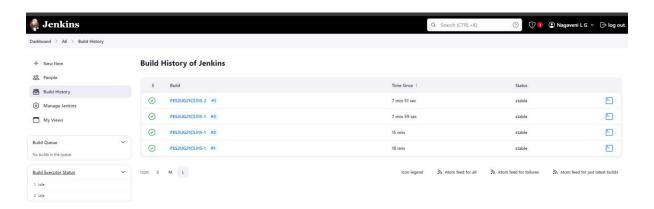
1. Console output of second job



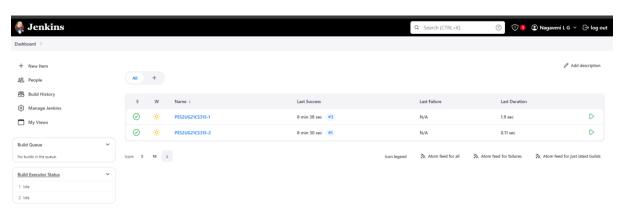
2.Status page of first job



3.Build History of Jenkins

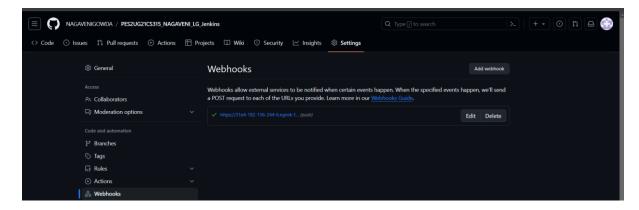


4. Jenkins Dashboard

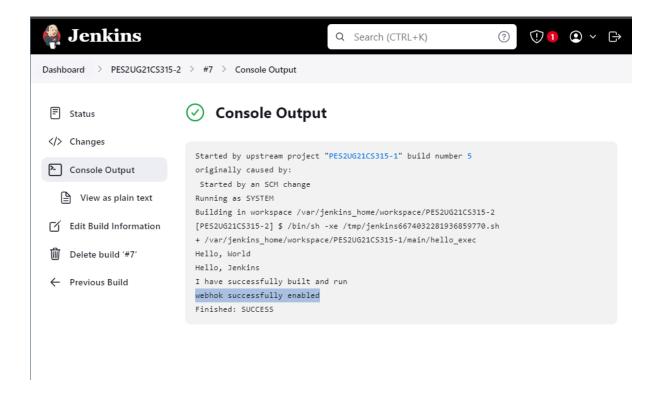


TASK 4

1. Webhook added to your GitHub repository



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

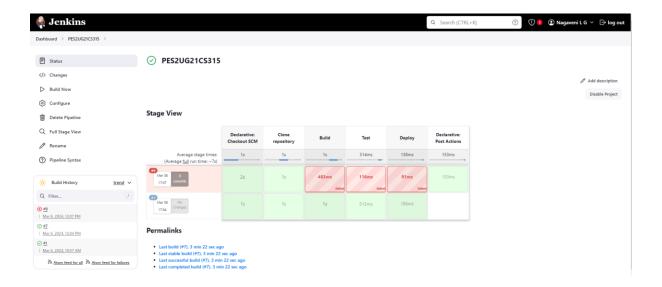


TASK 5

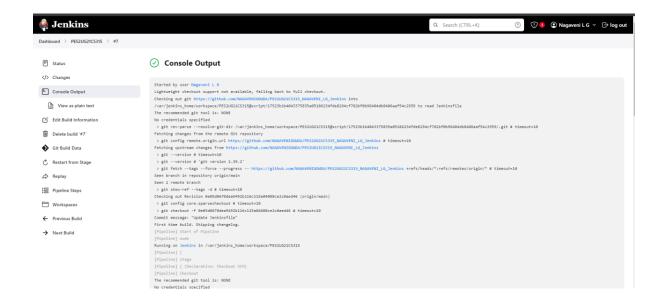
1.Code/script written to create basic pipeline using GitHub repository

```
PES2UG21CS315 NAGAVENI LG Jenkins /
                                                                        in main
  Edit
                      Code 55% faster with GitHub Copilot
          Preview
         pipeline{
          agent any
          stages {
              stage('Clone repository'){
                steps{
                checkout([$class: 'GitSCM',
                branches:[[name:'*/main']],
                userRemoteConfigs :[[url:'https://github.com/NAGAVENIGOWDA/PES2UG21CS315_NAGAVENI_LG_Jenkins.git']]])
             stage('Build'){
              steps{
               sh 'g++ main/hello.cpp -o output'
             stage('Test'){
              steps {
                sh './output'
             stage('Deploy'){
              steps{
                echo 'deploy'
          post{
             failure{
              error '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 for handling failures.



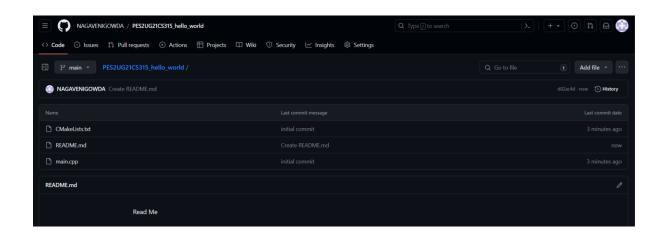
3. Console Output of the Pipeline



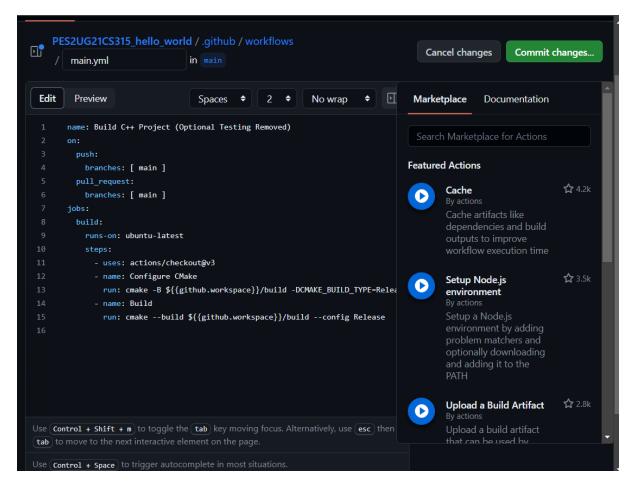
4.https://github.com/NAGAVENIGOWDA/PES2UG21CS315 NAGAVENI LG Jenkins/tree/main

Assignment - 4(b)

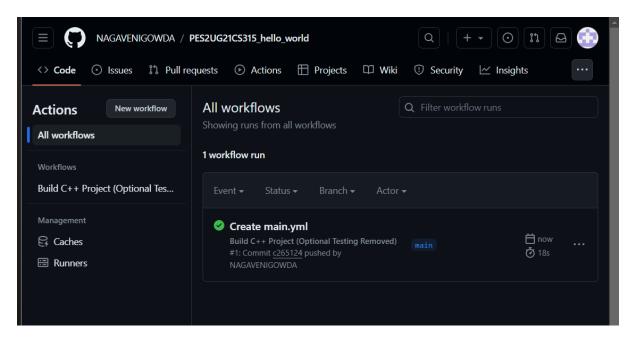
(a) Take a screenshot of the repository in the manner given below after the two files have been uploaded onto the repository and name it (a)



(b) Take a screenshot of the code after it has been pasted onto the workflow and name it (b)



(c). Take a screenshot as given below indicating that the build is successful and name it (c)



(d) Take a screenshot as given below after making the change in the main.cpp file and name it (d)

```
PES2UG21CS315_hello_world / main.cpp in main Cancel changes Commit changes...

Edit Preview Spaces $\display$ 4 $\display$ No wrap $\display$

#include <iostream>

int main()

{

5     std::cout << "Hello, world! this is PES2UG21CS315\" << std::endl;

6     return 0;

7  }

8
```

(e) Take a screenshot of the status of the build after it has passed and name it (e)

