

## Jenkins Task-2

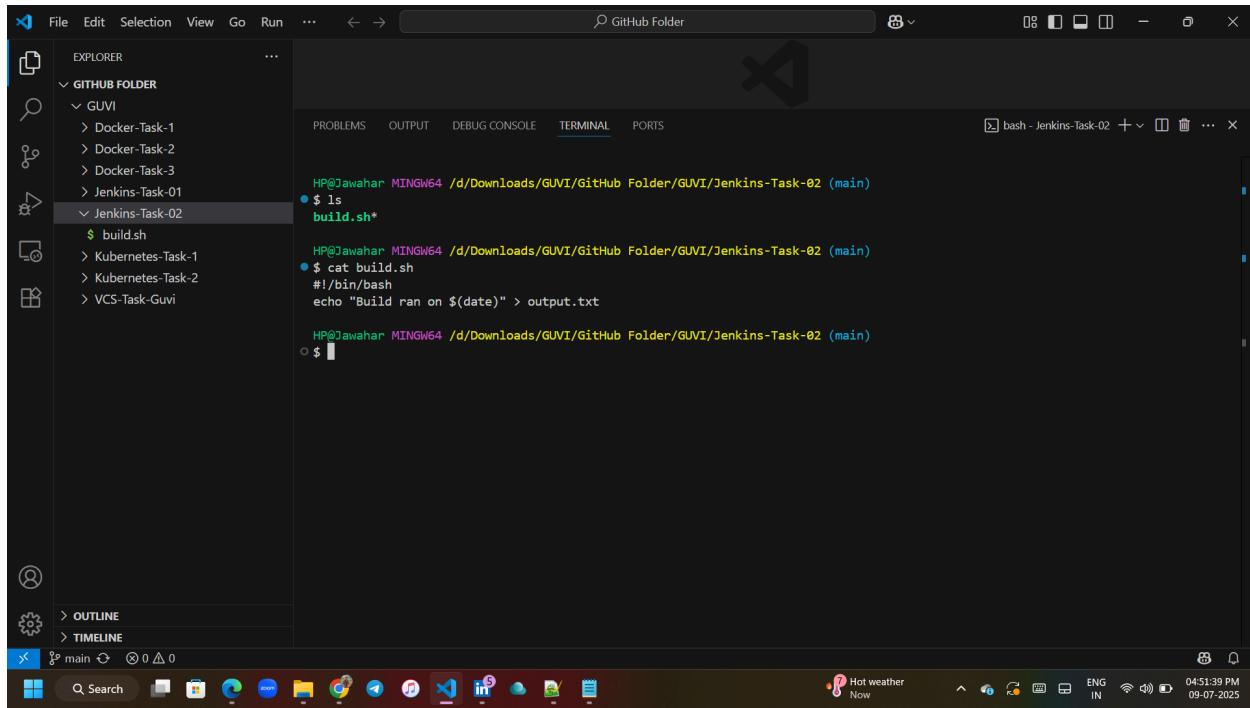
### Task Description:

Create a simple script file and push it to repo. Create a project in Jenkins connected to your GitHub repository. When a commit is made to your repo, automatically build must get triggered from Jenkins and the output must be shared to me via email.

### Screenshot:

#### Drive link :

[https://docs.google.com/document/d/1UGIV\\_4VtkW-8205Qz1DnK5pnplktG3ejNaPAW0pkNUg/edit?usp=sharing](https://docs.google.com/document/d/1UGIV_4VtkW-8205Qz1DnK5pnplktG3ejNaPAW0pkNUg/edit?usp=sharing)



The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. The left sidebar has an 'EXPLORER' view with a tree structure under 'GITHUB FOLDER'. The 'Jenkins-Task-02' folder is expanded, showing sub-folders like 'GUVI', 'Docker-Task-1', 'Docker-Task-2', 'Docker-Task-3', and 'Jenkins-Task-01'. Below these are 'build.sh', 'Kubernetes-Task-1', 'Kubernetes-Task-2', and 'VCS-Task-Guvi'. The main area is a terminal window titled 'bash - Jenkins-Task-02'. It displays the following Jenkins build logs:

```
HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ ls
build.sh*
HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ cat build.sh
#!/bin/bash
echo "Build ran on $(date)" > output.txt
HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$
```

A screenshot of a GitHub repository page for 'GUVI / Jenkins-Task-02 / build.sh'. The repository has 2 lines (2 loc) and 53 Bytes. The code content is:

```
#!/bin/bash
echo "Build ran on $(date)" > output.txt
```

A screenshot of the AWS EC2 Instances page. The instance details are as follows:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
Jenkins-Server	i-077363044cfa9baff	Running	t2.micro	Initializing	View alarms +	us-west-2a	ec2-44-251-140-208.us...	44.251.140.208

44.251.140.208 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

X server Exit

Quick connect...

/home/ubuntu/ Name cache ssh bash\_logout bashrc profile xauthority

```
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/javac to provide /usr/bin/javac (javac) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/javap to provide /usr/bin/javap (javap) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jcmd to provide /usr/bin/jcmd (jcmd) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jdb to provide /usr/bin/jdb (jdb) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jdeps to provide /usr/bin/jdeps (jdeps) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jdeprscan to provide /usr/bin/jdeprscan (jdeprscan) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jfr to provide /usr/bin/jfr (jfr) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jimage to provide /usr/bin/jimage (jimage) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jinfo to provide /usr/bin/jinfo (jinfo) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jlink to provide /usr/bin/jlink (jlink) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jmap to provide /usr/bin/jmap (jmap) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jmod to provide /usr/bin/jmod (jmod) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jps to provide /usr/bin/jps (jps) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jrunscript to provide /usr/bin/jrunscript (jrunscript) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jstack to provide /usr/bin/jstack (jstack) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jstat to provide /usr/bin/jstat (jstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jstalg to provide /usr/bin/jstalg (jstalg) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/serialver to provide /usr/bin/serialver (serialver) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jhsdb to provide /usr/bin/jhsdb (jhsdb) in auto mode
Setting up openjdk-17-jre-amd64 (17.0.15+6~us1~ubuntut124.04) ...
Setting up openjdk-17-jdk-amd64 (17.0.15+6~us1~ubuntut124.04) ...
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jconsole to provide /usr/bin/jconsole (jconsole) in auto mode
Processing triggers for libc-bin (2.39~0ubuntu8.4) ...
Processing triggers for libgdk-pixbuf-2.0-0:amd64 (2.42.10+dfsg-3ubuntu3.1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-28-90:~$ java -version
openjdk version "17.0.15"
OpenJDK Runtime Environment (build 17.0.15+6~Ubuntu~ubuntut124.04)
OpenJDK 64-Bit Server VM (build 17.0.15+6~Ubuntu~ubuntut124.04, mixed mode, sharing)
ubuntu@ip-172-31-28-90:~$
```

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Q. Search

35°C Partly cloudy ENG IN 07:55 PM 09-07-2025

44.251.140.208 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

X server Exit

Quick connect...

/home/ubuntu/ Name cache ssh bash\_logout bashrc profile xauthority

```
Setting up net-tools (2.40-0.1ubuntu4.4) ...
Setting up jenkins (2.304.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /usr/lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-28-90:~$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-28-90:~$ sudo systemctl start jenkins
ubuntu@ip-172-31-28-90:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
   Active: active (running) since Wed 2025-07-09 14:27:01 UTC; 38s ago
     Main PID: 4433 (java)
       Tasks: 41 (limit: 1124)
      Memory: 301.0M (peak: 363.4M)
        CPU: 18.212s
       CGroup: /system.slice/jenkins.service
               └─4433 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Jul 09 14:26:53 ip-172-31-28-90 jenkins[4433]: a11c24a6d0f9432999b5e79fb358923
Jul 09 14:26:53 ip-172-31-28-90 jenkins[4433]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Jul 09 14:26:53 ip-172-31-28-90 jenkins[4433]: ****
Jul 09 14:27:00 ip-172-31-28-90 jenkins[4433]: 2025-07-09 14:27:00.982+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: Completed init
Jul 09 14:27:01 ip-172-31-28-90 jenkins[4433]: 2025-07-09 14:27:01.014+0000 [id=23] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up
Jul 09 14:27:01 ip-172-31-28-90 systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.
Jul 09 14:27:01 ip-172-31-28-90 jenkins[4433]: 2025-07-09 14:27:01.823+0000 [id=47] INFO h.m.DownloadService$Downloadable#load: Obtained the update
Jul 09 14:27:01 ip-172-31-28-90 jenkins[4433]: 2025-07-09 14:27:01.824+0000 [id=47] INFO hudson.util.Retriger#start: Performed the action check
[lines 1-20/20 (END)]
```

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Q. Search

35°C Partly cloudy ENG IN 07:57 PM 09-07-2025

**Getting Started**

# Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

**Administrator password**

**Continue**

**Welcome to Jenkins!**

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

**Start building your software project**

Create a job +

**Set up a distributed build**

Set up an agent

Configure a cloud

**New Item**

**Build History**

**Manage Jenkins**

**My Views**

**Build Queue**  
No builds in the queue.

**Build Executor Status**  
0/2

34°C Partly cloudy

08:07:48 PM  
09-07-2025

**Plugins**

**Download progress**

Preparation	Download Progress
• Checking internet connectivity	Success
• Checking update center connectivity	Success
• Success	Success
Ionicons API	Success
Folders	Success
OWASP Markup Formatter	Success
ASM API	Success
JSON Path API	Success
Structs	Success
Pipeline: Step API	Success
Token Macro	Success
Build Timeout	Success
bouncycastle API	Success

**Global credentials (unrestricted)**

+ Add Credentials

ID	Name	Kind	Description
github-creds	Jawahar1112	SSH Username with private key	
smtp-creds	jawaharjawa1112@gmail.com/*****	Username with password	

REST API Jenkins 2.504.3

The screenshot shows the Jenkins Task 02 configuration page. In the 'Triggers' section, the 'GitHub hook trigger for GITScm polling' option is selected. Other options like 'GitHub Branches', 'GitHub Pull Requests', 'Poll SCM', and 'Trigger builds remotely' are available but not selected.

**Configure**

**Triggers**

- GitHub Branches
- GitHub Pull Requests ?
- GitHub hook trigger for GITScm polling ?
- Poll SCM ?
- Trigger builds remotely (e.g., from scripts) ?

**Pipeline**

Define your Pipeline using Groovy directly or pull it from source control.

**Definition**

Pipeline script from SCM

SCM ?

Save Apply

The screenshot shows the Jenkins Task 02 configuration page. In the 'Repository' section, a repository URL is set to `https://github.com/Jawahar112/GUVI.git` and a credential named 'Jawahar112' is selected. There is also an 'Advanced' button and a 'Add Repository' button.

**Configure**

**Pipeline**

Repositories ?

Repository URL ?  
https://github.com/Jawahar112/GUVI.git

Credentials ?  
Jawahar112

+ Add

Advanced ▾

Add Repository

Branches to build ?

Save Apply

The screenshot shows a code editor interface with the following details:

- File Path:** GUVI > Jenkins-Task-02 > Jenkinsfile
- Code Content (Jenkinsfile):**

```
1 pipeline {
4   stages {
19 }
20
21
22   post {
23     success {
24       emailext(
25         to: 'jawaharjawa1112@gmail.com',
26         subject: "Build #${BUILD_NUMBER} Successful",
27         body: "Jenkins build completed successfully.\nProject: ${JOB_NAME}\nBuild: #${BUILD_NUMBER}",
28         attachLog: true
29     )
30
31     failure {
32       emailext(
33         to: 'jawaharjawa1112@gmail.com',
34         subject: "Build #${BUILD_NUMBER} Failed",
35         body: "Jenkins build failed.\nProject: ${JOB_NAME}\nBuild: #${BUILD_NUMBER}",
36         attachLog: true
37     )
38   }
39 }
40 }
```

- Editor Status Bar:** Jawahar1112 (11 minutes ago) Ln 29, Col 6 Spaces: 2 UTF-8 CRLF ( Groovy 08:54:39 PM 09-07-2025

The screenshot shows a code editor interface with the following details:

- File Path:** GUVI > Jenkins-Task-02 > Jenkinsfile
- Code Content (Jenkinsfile):**

```
1 pipeline {
```

- Terminal Output:**

```
HP@Jawahar MINGW64 ~/d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ git add Jenkinsfile

HP@Jawahar MINGW64 ~/d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ git commit -m "Fix Jenkinsfile syntax"
[main 5719e14] Fix Jenkinsfile syntax
 1 file changed, 2 insertions(+), 2 deletions(-)

HP@Jawahar MINGW64 ~/d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 426 bytes | 426.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Jawahar1112/GUVI.git
    7418bae..5719e14 main -> main

HP@Jawahar MINGW64 ~/d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ ls -ltr
total 6
-rwxr-xr-x 1 HP 197121 55 Jul  9 16:50 build.sh*
-rw-r--r-- 1 HP 197121 82 Jul  9 20:48 README.md
-rw-r--r-- 1 HP 197121 936 Jul  9 20:54 Jenkinsfile
```

- Editor Status Bar:** Jawahar1112 (11 minutes ago) Ln 29, Col 6 Spaces: 2 UTF-8 CRLF ( Groovy 08:58:30 PM 09-07-2025

The screenshot shows a Jenkins pipeline stage view. On the left, there's a sidebar with various pipeline management options like 'Configure', 'Delete Pipeline', 'Full Stage View', 'Stages', 'Rename', 'Pipeline Syntax' (which is currently selected), and 'GitHub Hook Log'. Below this is a 'Builds' section with a 'Filter' input and a list of recent builds: #10 (3:48 PM), #9 (3:32 PM), and #8 (2:59 PM). The main area is titled 'Stage View' and displays a table comparing 'Declarative: Checkout SCM' (3s), 'Build' (637ms), 'Archive Output' (195ms), and 'Declarative: Post Actions' (17s) across three stages. Each stage row includes a timestamp (Jul 09 21:18, 21:02, 21:01), a 'No Changes' status indicator, and a '1 commit' badge for stage #8.

	Declarative: Checkout SCM	Build	Archive Output	Declarative: Post Actions
#10 Jul 09 21:18	591ms	753ms	295ms	316ms
#9 Jul 09 21:02	537ms	735ms	207ms	20s
#8 Jul 09 21:01	654ms	784ms	265ms	20s
#7				

The screenshot shows a Windows desktop environment with the Visual Studio Code application open. The title bar reads "GitHub Folder". The left sidebar has icons for Explorer, GitHub, Search, and Settings. The main area shows a file tree under "GITHUB FOLDER" with "Jenkinsfile" selected. A terminal tab is active, displaying the following Jenkinsfile execution:

```
To https://github.com/Jawahar1112/GUVI.git  
5719e14..d230bb8 main -> main  
  
HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)  
● $ echo "Trigger at $(date)" >> README.md  
  
HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)  
● $ git add README.md  
warning: in the working copy of 'Jenkins-Task-02/README.md', LF will be replaced by CRLF the next time Git touches it  
  
HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)  
● $ git commit -m "Trigger Jenkins"  
[main 4bd82e] Trigger Jenkins  
1 file changed, 1 insertion(+)  
  
HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)  
● $ git push  
Enumerating objects: 7, done.  
Counting objects: 100% (7/7), done.  
Delta compression using up to 12 threads  
Compressing objects: 100% (4/4), done.  
Writing objects: 100% (4/4), 448 bytes | 440.00 KiB/s, done.  
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)  
remote: Resolving deltas: 100% (1/1), completed with 1 local object.  
To https://github.com/Jawahar1112/GUVI.git  
d230bb8..4bd82e main -> main  
  
HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)  
● $
```

Dashboard > Jenkins Task 02 >

Full Stage View

Stages

Rename

Pipeline Syntax

GitHub Hook Log

Builds

Filter

Today

- #11 3:51 PM
- #10 3:48 PM
- #9 3:32 PM
- #8 3:31 PM
- #7 3:27 PM

Average stage times: (full run time: ~13s)

Declarative: Checkout SCM	Build	Archive Output	Declarative: Post Actions
2s	651ms	191ms	15s
#11 Jul 09 21:21 1 commit	695ms	751ms	161ms
#10 Jul 09 21:18 No Changes	591ms	753ms	295ms
#9 Jul 09 21:02 No Changes	537ms	735ms	207ms
#8 Jul 09 21:01 1 commit	654ms	784ms	265ms
#7 Jul 09 21:00 1 commit	654ms	784ms	265ms

44.251.140.208:8080/job/jenkins%20Task%2002/multi-pipeline-graph

File Edit Selection View Go Run ... ← → ⌘ GitHub Folder

EXPLORER

GITHUB FOLDER

- GUVI
- Docker-Task-1
- Docker-Task-2
- Docker-Task-3
- Jenkins-Task-01
- Jenkins-Task-02
  - build.sh
  - Jenkinsfile
  - README.md
- Kubernetes-Task-1
- Kubernetes-Task-2
- VCS-Task-GUVI

Jenkinsfile README.md

GUVI > Jenkins-Task-02 > README.md

1 Trigger at Wed, Jul 9, 2025 8:27:39 PM

2 Trigger at Wed, Jul 9, 2025 8:48:01 PM

3 Trigger at Wed, Jul 9, 2025 9:21:23 PM

4

main ↻ ⌘ 0 △ 0

Ln 1, Col 1 Spaces: 4 UTF-8 LF {} Markdown

30°C Mostly clear

ENG IN 09:22:01 PM 09-07-2025

The screenshot shows a terminal window titled "GitHub Folder" running on a Windows operating system. The terminal is displaying a series of git commands being run on a Jenkins task. The commands include pushing changes, adding files, committing, and compressing the repository. The terminal output is as follows:

```
Trigger at Wed. Jul 9. 2025 8:27:39 PM
$ git push
Everything up-to-date

HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ echo "Trigger at $(date)" >> README.md

HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ git add README.md
warning: in the working copy of 'Jenkins-Task-02/README.md', LF will be replaced by CRLF the next time Git touches it

HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ git commit -m "Trigger Jenkins"
[main 191c7f3] Trigger Jenkins
1 file changed, 2 insertions(+)

HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 448 bytes | 448.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Jawahar1112/GUVI.git
 4bd882e..191c7f3 main -> main

HP@Jawahar MINGW64 /d/Downloads/GUVI/GitHub Folder/GUVI/Jenkins-Task-02 (main)
```

The terminal interface includes standard Windows icons in the taskbar and a status bar at the bottom showing weather (30°C Mostly clear), language (ENG IN), and date/time (09-07-2025).

Dashboard > Jenkins Task 02 >

Full Stage View

Stages

Rename

Pipeline Syntax

GitHub Hook Log

Builds

Filter

Today

- #12 3:53 PM
- #11 3:51 PM
- #10 3:48 PM
- #9 3:32 PM
- #8 3:31 PM

	Declarative: Checkout SCM	Build	Archive Output	Declarative: Post Actions
#12 Jul 09 21:23	1 commit	584ms	721ms	177ms
#11 Jul 09 21:21	1 commit	695ms	751ms	161ms
#10 Jul 09 21:18	No Changes	591ms	753ms	295ms
#9 Jul 09 21:02	No Changes	537ms	735ms	207ms
#8				20s

Dashboard > Jenkins Task 02 > #12

```
[Pipeline] echo
↳ Archiving output.txt
[Pipeline] archiveArtifacts
Archiving artifacts
[Pipeline]
[Pipeline] // dir
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] emailext
Sending email to: jawaharjawa1112@gmail.com
Not sent to the following valid addresses: jawaharjawa1112@gmail.com
[Pipeline]
[Pipeline] // stage
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```