

# TASK 1

**Step 1:** Open Jenkins and click "**New Item.**"

**Step 2:** Enter a project name and select "**Freestyle Project,**" then click **OK.**

**Step 3:** In the **General** tab, scroll down to the "**Build**" section.

**Step 4:** Click "**Add build step**" → "**Execute shell.**"

**Step 5:** Enter your shell commands in the provided text box.

**Step 6:** Click "**Save**" to apply the changes.

**Step 7:** On the project page, click "**Build Now**" to start the job.

**Step 8:** The build status will appear in the **Build History** (left-side panel).

**Step 9:** Click on the latest build (#1, #2, etc.) and select "**Console Output**" to view logs and results.

The screenshot shows the Jenkins web interface. The browser address bar indicates the URL is `localhost:8080/job/Task%20-%201/1/console`. The Jenkins header is visible with the logo and the name 'Jenkins'. Below the header, the breadcrumb navigation shows 'Dashboard > Task - 1 > #1 > Console Output'. On the left sidebar, the 'Console Output' option is selected. The main content area displays the console output for build #1, which is titled 'Console Output' with a green checkmark icon. The output text is as follows:

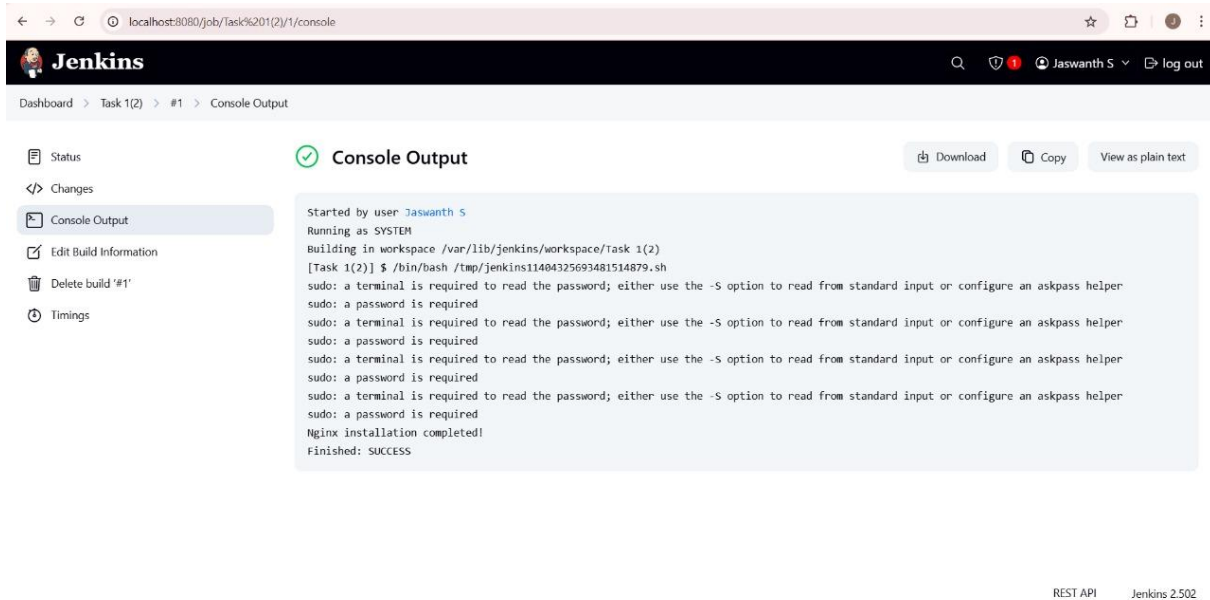
```
Started by user 'jaswanth S'
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Task - 1
[Task - 1] $ /bin/sh -xe /tmp/jenkins5323559796131017060.sh
+ echo "Hello, World!"
"Hello, World!"
Finished: SUCCESS
```

At the top right of the console output area, there are three buttons: 'Download', 'Copy', and 'View as plain text'.

# TASK 1

## Command:

echo "Hello, World!"



The screenshot shows the Jenkins web interface at localhost:8080. The breadcrumb trail is Dashboard > Task 1(2) > #1 > Console Output. The left sidebar contains links for Status, Changes, Console Output (selected), Edit Build Information, Delete build '#1', and Timings. The main area displays the 'Console Output' for build #1 of Task 1(2), which is in a successful state. The output text is as follows:

```
Started by user Jaswanth S
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Task 1(2)
[Task 1(2)] $ /bin/bash /tmp/jenkins11404325693481514879.sh
sudo: a terminal is required to read the password; either use the -S option to read from standard input or configure an askpass helper
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sudo: a password is required
Nginx installation completed!
Finished: SUCCESS
```

At the bottom right of the console output area, there are links for 'Download', 'Copy', and 'View as plain text'. The footer of the Jenkins interface shows 'REST API' and 'Jenkins 2.502'.

## Command:

#!/bin/bash

sudo apt update

sudo apt install -y nginx

sudo systemctl start nginx

sudo systemctl enable nginx

echo "Nginx installation completed!"