

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.**"

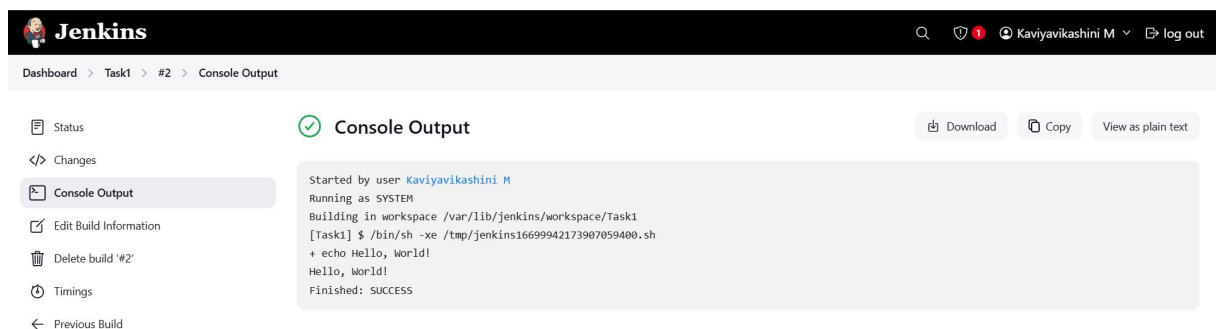
Step 5: Enter your shell commands in the provided text box.

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.

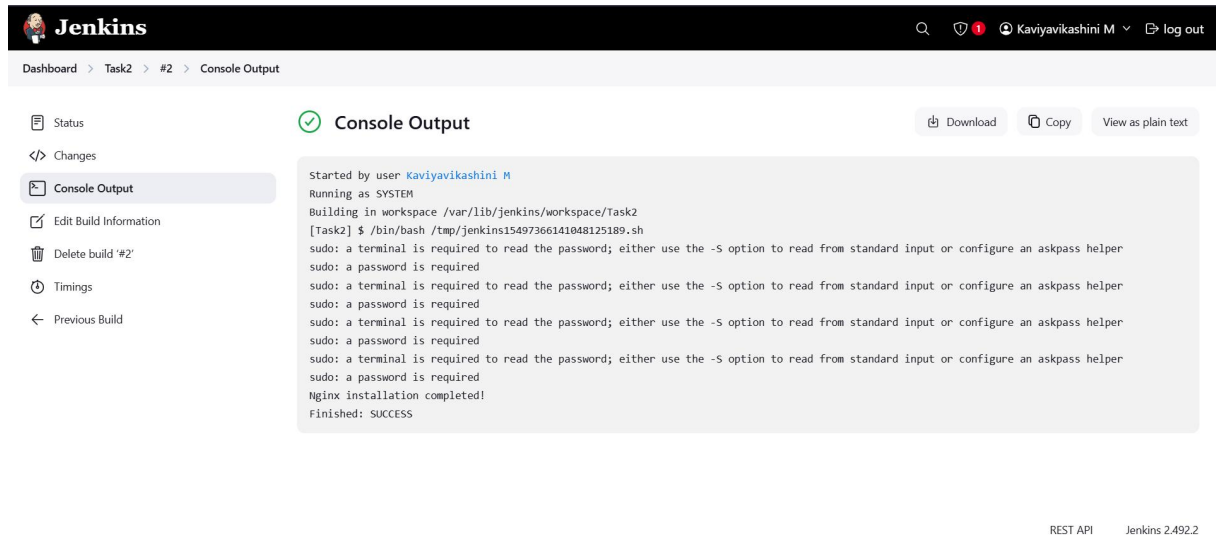


The screenshot shows the Jenkins web interface. At the top is the Jenkins logo and navigation links. Below the header, the breadcrumb trail reads "Dashboard > Task1 > #2 > Console Output". On the left sidebar, there is a list of links: "Status", "Changes", "Console Output" (which is highlighted), "Edit Build Information", "Delete build '#2'", "Timings", and "Previous Build". The main content area is titled "Console Output" with a green checkmark icon. It contains the following text: "Started by user Kaviyavikashini M", "Running as SYSTEM", "Building in workspace /var/lib/jenkins/workspace/Task1", "[Task1] \$ /bin/sh -xe /tmp/jenkins16699942173907059400.sh", "+ echo Hello, World!", "Hello, World!", and "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. The top navigation bar includes the Jenkins logo, a search icon, a shield icon with a red exclamation mark, the user name 'Kaviyavikashini M', and a 'log out' link. The breadcrumb trail is 'Dashboard > Task2 > #2 > Console Output'. On the left sidebar, the 'Console Output' option is selected. The main content area displays the console output for 'Task2' with a green checkmark icon and the title 'Console Output'. Above the output text are buttons for 'Download', 'Copy', and 'View as plain text'. The console output text is as follows:

```
Started by user Kaviyavikashini M
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Task2
[Task2] $ /bin/bash /tmp/jenkins15497366141048125189.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
sudo: a password is required
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sudo: a password is required
Nginx installation completed!
Finished: SUCCESS
```

At the bottom right of the page, the text 'REST API' and 'Jenkins 2.492.2' is visible.

Command:

```
#!/bin/bash

sudo apt update

sudo apt install -y nginx

sudo systemctl start nginx

sudo systemctl enable nginx

echo "Nginx installation completed!"
```