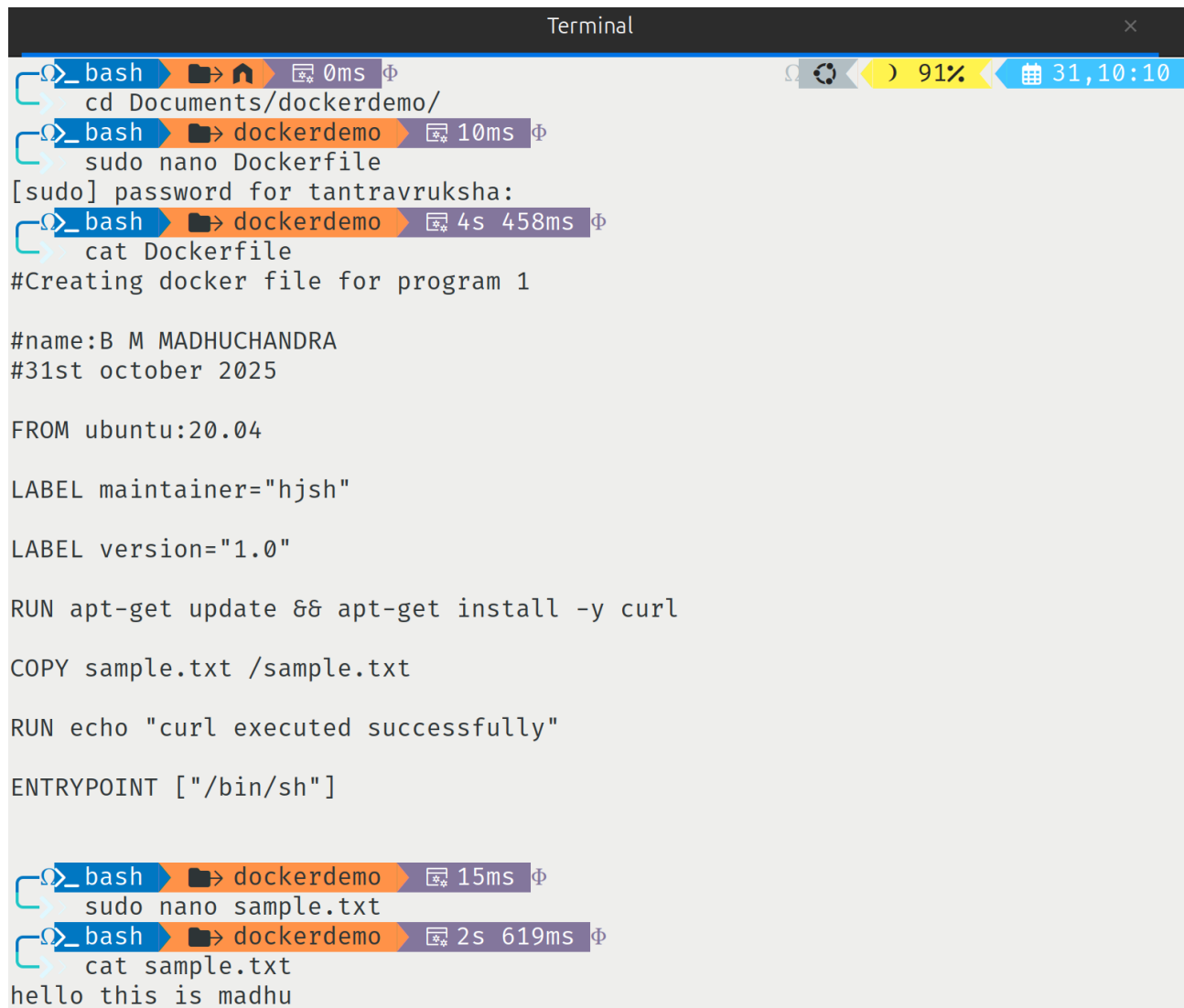


## PROGRAM 1

# Build a Docker Container from a custom Docker File

**Step 1 : Create the following files inside a folder ( DockerFile and sample.txt.txt)**



```
Terminal
_ bash 0ms
cd Documents/dockerdemo/
_ bash 10ms
sudo nano Dockerfile
[sudo] password for tantravruksha:
_ bash 4s 458ms
cat Dockerfile
#Creating docker file for program 1

#name:B M MADHUCHANDRA
#31st october 2025

FROM ubuntu:20.04

LABEL maintainer="hjsh"

LABEL version="1.0"

RUN apt-get update && apt-get install -y curl

COPY sample.txt /sample.txt

RUN echo "curl executed successfully"

ENTRYPOINT ["/bin/sh"]

_ bash 15ms
sudo nano sample.txt
_ bash 2s 619ms
cat sample.txt
hello this is madhu
```

## Step 2 : Open that in a terminal. Run these commands to build and run Docker

```
_bash ➜ dockerdemo 40ms
docker build -t prg1:1.1 .
[+] Building 2.3s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 324B
=> [internal] load metadata for docker.io/library/ubuntu:20.04
=> [internal] load build context
=> => transferring context: 2B
=> [1/4] FROM docker.io/library/ubuntu:20.04@sha256:8feb4d8ca5354def3d8fce243717141ce31e2c428701f6682bd2fafa15388214
=> [internal] load build context
=> => transferring context: 57B
=> CACHED [2/4] RUN apt-get update && apt-get install -y curl
=> CACHED [3/4] COPY sample.txt /sample.txt
=> CACHED [4/4] RUN echo "curl executed successfully"
=> exporting to image
=> => exporting layers
=> => writing image sha256:c578b06e28944a35632bbc5d57196d29f9424d035b478c5e20c05d8539613304
=> => naming to docker.io/library/prg1:1.1
_bash ➜ dockerdemo 2s 501ms
docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
prg1          1.1       c578b06e2894   14 hours ago   147MB
```

## Step 3 : The output of the program

### docker images

```
_bash ➜ dockerdemo 2s 501ms
docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
prg1          1.1       c578b06e2894   14 hours ago   147MB
_bash ➜ dockerdemo 36ms
```

### docker ps/ps -a

```
_bash ➜ dockerdemo 38ms
>> docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS      PORTS          NAMES
74cf68cbdd6b   prg1:1.1  "/bin/sh"               39 seconds ago Exited (0) 26 seconds ago          prg1cont
_bash ➜ dockerdemo 40ms
~~~~
```