

## Prac-02

**Demonstrate how to build a Docker image using Ubuntu and execute an echo command when the container runs**

```
PS C:\Users\narut> cd dockerfile_prac1
PS C:\Users\narut\dockerfile_prac1> notepad dockerfile
PS C:\Users\narut\dockerfile_prac1> ren dockerfile.txt dockerfile
```

**Step1:** Create a directory

**Step2:** Create a file named as dockerfile using notepad/nano

**Step3:** Paste the content given below

```
# Base image

FROM ubuntu:latest

# Metadata

LABEL maintainer="Student Demo"

# Avoid interactive prompts

ENV DEBIAN_FRONTEND=noninteractive

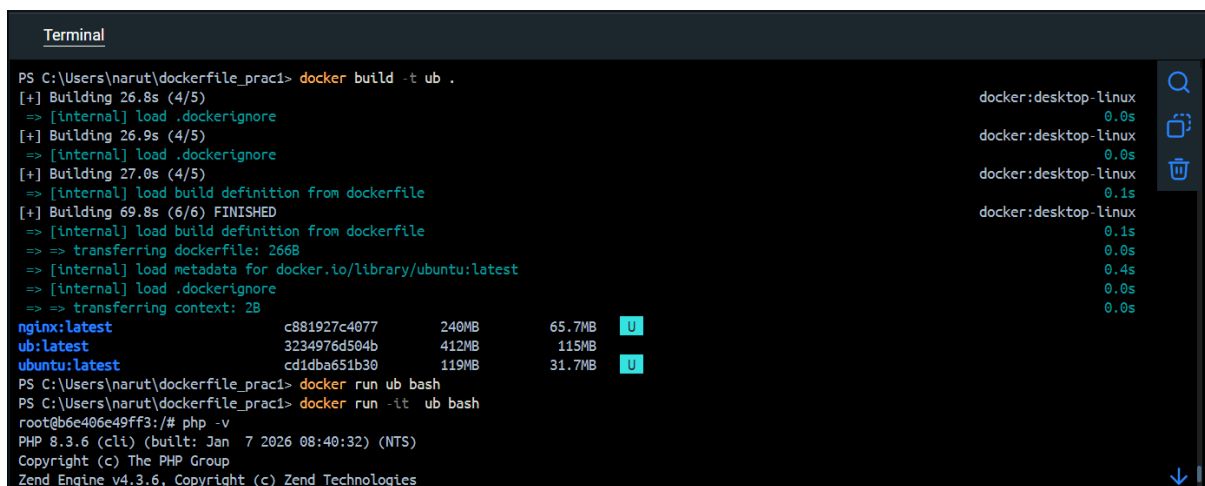
# Install required packages

RUN apt update && apt install -y php nano && rm -rf /var/lib/apt/lists/*

# Print message when container runs

CMD ["echo", "Hello Students"]
```

**Step4:** Rename the txt the file in dockerfile



```
Terminal
PS C:\Users\narut\dockerfile_prac1> docker build -t ub .
[+] Building 26.8s (4/5)
=> [internal] load .dockerignore
=> [internal] load .dockerignore
[+] Building 26.9s (4/5)
=> [internal] load .dockerignore
=> [internal] load build definition from dockerfile
[+] Building 27.0s (4/5)
=> [internal] load build definition from dockerfile
[+] Building 69.8s (6/6) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 266B
=> [internal] load metadata for docker.io/library/ubuntu:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
docker:desktop-linux 0.0s
docker:desktop-linux 0.0s
docker:desktop-linux 0.0s
docker:desktop-linux 0.1s
docker:desktop-linux 0.1s
docker:desktop-linux 0.0s
docker:desktop-linux 0.4s
docker:desktop-linux 0.0s
docker:desktop-linux 0.0s
nginx:latest c881927c4077 240MB 65.7MB U
ub:latest 3234976d504b 412MB 115MB
ubuntu:latest cd1dbae651b30 119MB 31.7MB U
PS C:\Users\narut\dockerfile_prac1> docker run ub bash
PS C:\Users\narut\dockerfile_prac1> docker run -it ub bash
root@b0e406e49ff3:/# php -v
PHP 8.3.6 (cli) (built: Jan 7 2026 08:40:32) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.3.6, Copyright (c) Zend Technologies
```

**Step5:** Build the image

**Step6:** Get inside the container

**Step7:** Verify the php installation