Lab Exercise 6- Docker-Compose file

Objective:

Set up a WordPress environment using Docker Compose, including a MySQL database as the backend.

Prerequisites:

- Docker and Docker Compose installed on your system.

Step 1: Create a docker-compose.yml File

1. In the project directory, create a file named docker-compose.yml.
2. Add the following content to docker-compose.yml:

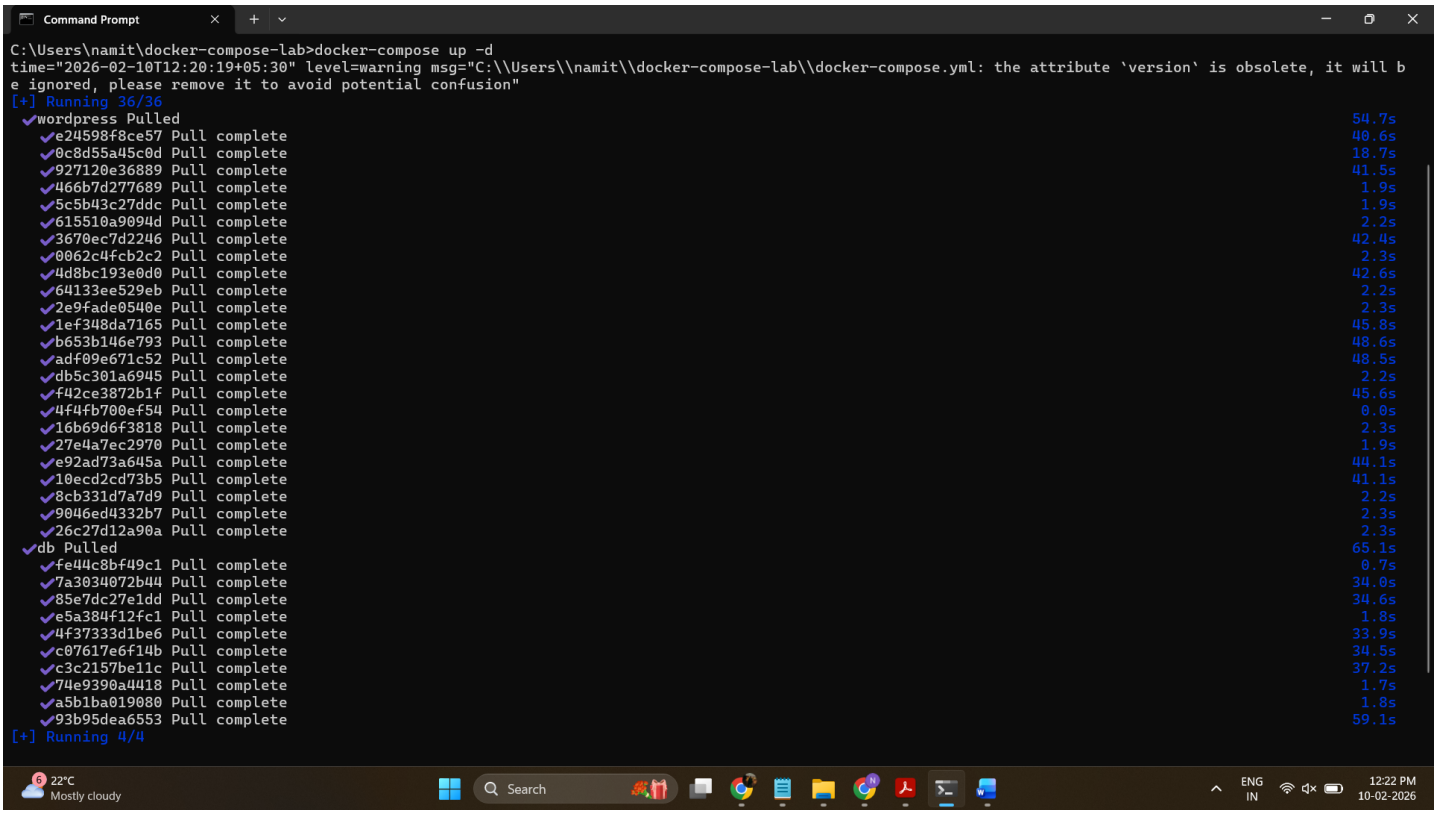
docker-compose.yml

```
version: '3.8'

services:
  wordpress:
    image: wordpress:latest
    ports:
      - "8002:80"
    environment:
      WORDPRESS_DB_HOST: db:3306
      WORDPRESS_DB_USER: wp_user
      WORDPRESS_DB_PASSWORD: wp_pass
      WORDPRESS_DB_NAME: wp_database
    depends_on:
      - db

  db:
    image: mysql:latest
    environment:
      MYSQL_ROOT_PASSWORD: root_password
      MYSQL_DATABASE: wp_database
      MYSQL_USER: wp_user
      MYSQL_PASSWORD: wp_pass
    volumes:
      - db_data:/var/lib/mysql

volumes:
  db_data:
```

Step 2: Start the Containers

1. Run the following command to start the containers:

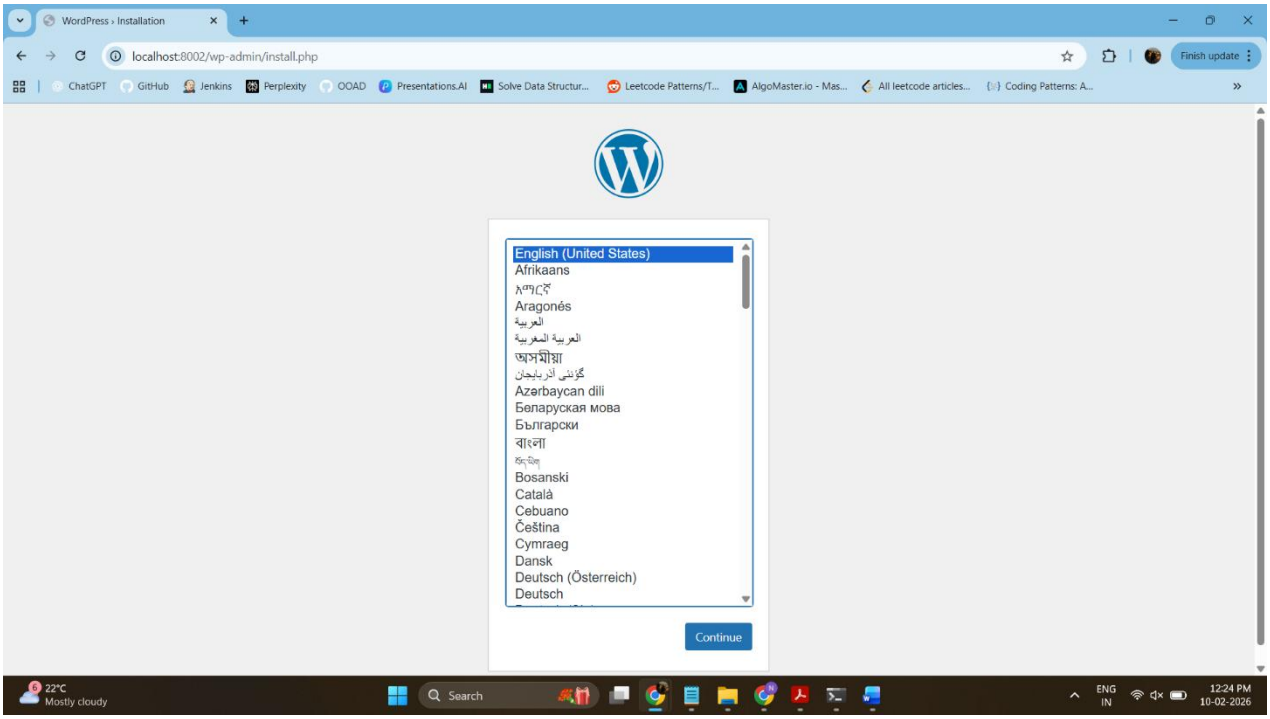
```
docker-compose up -d
```

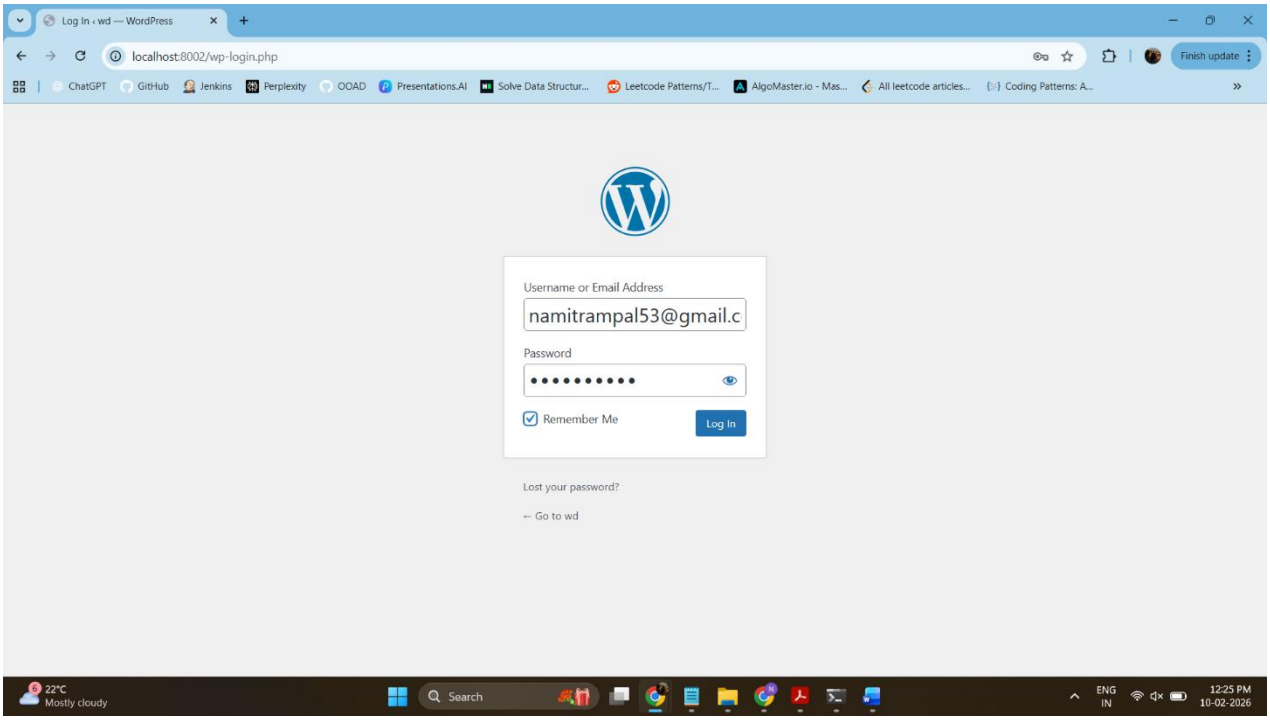


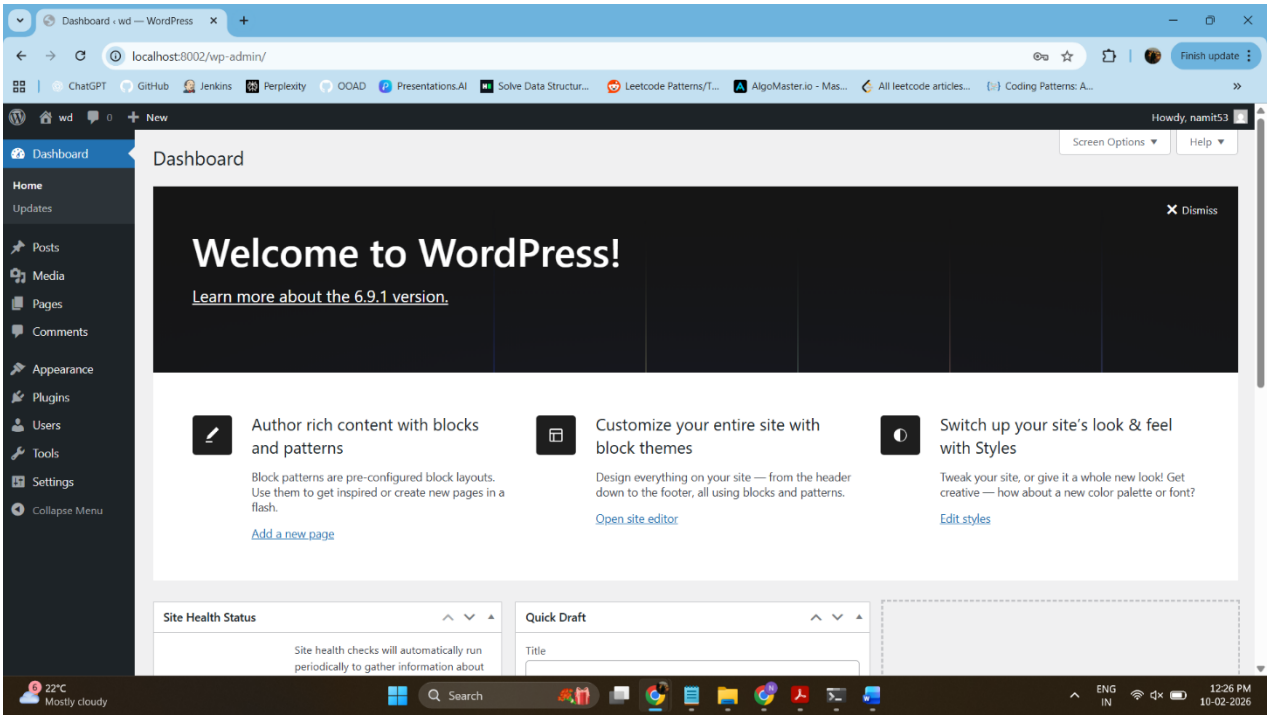
2. Docker Compose will download the necessary images (WordPress and MySQL) and start both services.

Step 4: Access WordPress

1. Open your web browser and go to **http://localhost:8002**
2. Follow the WordPress installation steps to set up your site.


WordPress › Installation
localhost:8002/wp-admin/install.php
Finish update
ChatGPT
GitHub
Jenkins
Perplexity
OOAD
Presentations.AI
Solve Data Structur...
Leetcode Patterns/T...
AlgoMaster.io - Mas...
All leetcode articles...
Coding Patterns: A...
English (United States)
Afrikaans
አማርኛ
Aragonés
العربية
العربية المغربية
অসমীয়া
گؤنئی آذربایجان
Azərbaycan dili
Беларуская мова
Български
বাংলা
Bosanski
Català
Cebuano
Čeština
Cymraeg
Dansk
Deutsch (Österreich)
Deutsch
Continue
22°C
Mostly cloudy
Search
ENG
IN
12:24 PM
10-02-2026


Log In ‹ wd — WordPress
localhost:8002/wp-login.php
Finish update
ChatGPT
GitHub
Jenkins
Perplexity
OOAD
Presentations.AI
Solve Data Structur...
Leetcode Patterns/T...
AlgoMaster.io - Mas...
All leetcode articles...
Coding Patterns: A...
Username or Email Address
namitrampal53@gmail.c
Password
Remember Me
Log In
Lost your password?
← Go to wd
22°C
Mostly cloudy
Search
ENG
IN
12:25 PM
10-02-2026



Step 5: Stop and Remove Containers

To stop the containers and remove the associated resources, run:

```
docker-compose down
```

```
C:\Users\namit\docker-compose-lab>docker-compose down
time="2026-02-10T12:26:59+05:30" level=warning msg="C:\\Users\\namit\\docker-compose-lab\\docker-compose.yml: the attribute `version` is obsolete, it will b
e ignored, please remove it to avoid potential confusion"
[+] Running 3/3
 ✔Container docker-compose-lab-wordpress-1  Removed                                                                                                1.6s
 ✔Container docker-compose-lab-db-1         Removed                                                                                                2.0s
 ✔Network docker-compose-lab_default        Removed                                                                                                0.4s

C:\Users\namit\docker-compose-lab>
```

Explanation of docker-compose.yml:

- **wordpress**: Sets up the WordPress container, mapping port 80 inside the container to port 8002 on your local machine.
- **db**: Sets up the MySQL container with a volume (db_data) for persistent storage.

Additional Notes:

- Modify the environment variables as needed for different configurations.

- To view logs, use docker-compose logs -f.

This setup allows you to quickly start a WordPress site locally and experiment with configurations.