**Pandit Deendayal Energy University, Gandhinagar**

**School of Technology**

**Department of Computer Science & Engineering**

**Cloud Computing Lab (20CP322P)**

**B. Tech. -Computer Science & Engineering (Sem-VI)**

**Lab 8 Assignment: Working with DOCKER - COMPOSE**

**Aim: Re-Do the problem of Lab 5 using docker compose. Also do assign a static IP address to WordPress container using subnetting.**

Create two docker containers with front-end and back-end applications and connect these containers using docker compose. The details of the containers are given below:

Web Application - Front-End + Back-End Application

○ MariaDB - Back-End (one container)

○ Wordpress - Front-End (different container)

Execute MariaDB Container First.

○ Container name Static like – ROLL\_NUMBER-mariadb-container

○ Set the DB Root password using Env Variable - MARIADB\_ROOT\_PASSWORD

○ Set the DB Username using Env Variable - MARIADB\_USER

○ Set the DB password using Env Variable - MARIADB\_PASSWORD

○ Set the DB Name using Env Variable - MARIADB\_DATABASE

Execute Wordpress Container -

○ Make the Container name Static like – ROLL\_NUMBER\_WORDPRESS-CONTAINER

○ DB Container Name - ROLL\_NUMBER\_WORDPRESS\_DB\_HOST

○ DB Name in Env Variable - WORDPRESS\_DB\_NAME

○ DB User in Env Variable - WORDPRESS\_DB\_USER

○ DB password in Env Variable - WORDPRESS\_DB\_PASSWORD

○ Expose Front-End Container on port 8080/80

○ Access WebSite on LocalHost/HostIP:PORT