**Pandit Deendayal Energy University, Gandhinagar**

**School of Technology**

**Department of Computer Science & Engineering**

**Cloud Computing Lab (23CP316P)**

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

**Lab 5 Assignment: Working with DOCKER**

**Aim:** Create two dockers with front-end and back-end applications and connect these containers. 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.

○ Make the Container name Static like - my-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 - wordpress-container

○ Set the DB Container Name in Env Variable - WORDPRESS\_DB\_HOST

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

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

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

○ Expose Front-End Container on port 8080/80

○ Access WebSite on LocalHost/HostIP:PORT

