	Hope Foundation's **Finolex Academy of Management and Technology, Ratnagiri** **Information Technology Department**

Subject name: DevOps Lab			Subject Code: ITL803
Class	BE IT	Semester – VIII (CBCGS)	Academic year: 2019-20
Name of Student		**QUIZ Score :**	
Roll No		Assignment/Experiment No.	04

Title: Install and Configure Docker for creating containers of different operating systems image

1.Course objectives applicable

LOB3. To understand Docker to build, ship and run containerized images

2. Course outcomes applicable:

LO2 -.Analyze & Illustrate the Containerization of OS images and deployment of applications over Docker

3. Learning Objectives:

1. Understand the docker technology
2. To know the building the images

4. Practical applications of the assignment/experiment: To automate the several tasks such as automatic building the code ,deploying the code and notifying the developer about build status via sms/email etc

5. Prerequisites:

1. Familiar with Linux os
2. Internet Access
3. Docker Hub account

6. Hardware Requirements:

1. Internet Access with Browser
2. Access to root privileges on fedora 30

7. Software Requirements:

Docker installed on fedora 30

8. Quiz Questions (if any): (Online Exam will be taken separately batchwise, attach the certificate/ Marks obtained)

1. What is docker?
2. What is the containerization?
3. What are the benefits of docker?

9. Experiment/Assignment Evaluation:

Sr. No.	Parameters	Marks obtained	Out of
1	Technical Understanding (Assessment may be done based on Q & A **or** any other relevant method.) Teacher should mention the other method used -		6
2	Neatness/presentation		2
3	Punctuality		2
Date of performance (DOP)		**Total marks obtained**	**10**
Date of checking (DOC)		**Signature of teacher**	

11. Installation Steps / Performance

Steps – `$uname -r`

```
4.16.5-300.fc28.x86_64
```

`sudo dnf config-manager --add-repo`
`https://download.docker.com/linux/fedora/docker-ce.repo`

```
sudo dnf makecache
```

```
$ sudo dnf install docker
```

To start the Docker service use:

```
$sudo systemctl start docker
```

```
 sudo systemctl enable docker
```