Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
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(Religious Jain Minority)

Department of Information Technology

Oral/Practical examination

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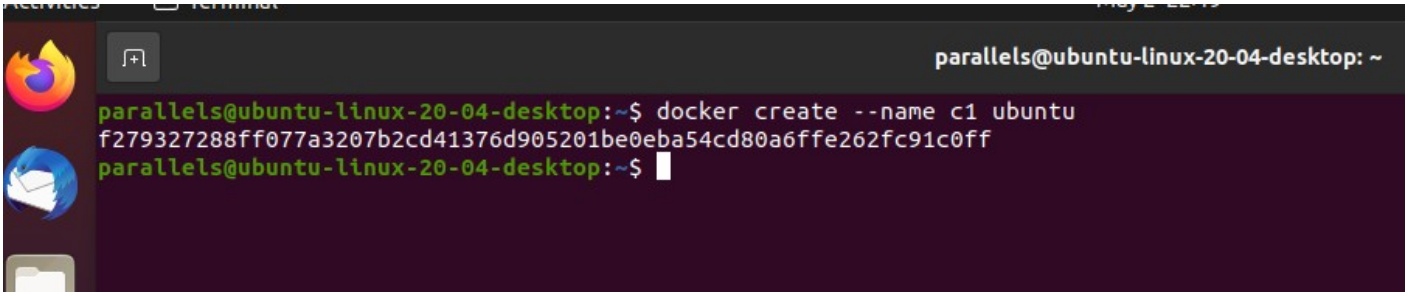
Class / Branch: SE IT/Div-A	Subject: DevOps Lab

Exp 3 : Docker install and implement all docker life cycle commands with any example, docker terminologies, docker swarm, Kubernetes differences, etc

Create Containers

Using the **docker create** command will create a new Docker container with the specified docker image

```
$ docker create --name <container name> <image name>
```



Run Container

The **docker run** command will do the work of both "**docker create**" and "**docker start**" command. This command will create a new container and run the image in the newly created container.

```
$ docker run -it --name <container name> <image name>
```

Pause Container

If we want to pause the processes running inside the container, we can use the "**docker pause**" command.

```
$ docker pause <container name>
```

```
parallels@ubuntu-linux-20-04-desktop:~$ docker pause c2
c2
```

Stop Container

Stopping a running Container means to stop all the processes running in that Container. Stopping does not mean killing or ending the process.

```
$ docker stop <container name>
```

```
parallels@ubuntu-linux-20-04-desktop:~$ docker stop c2
c2
parallels@ubuntu-linux-20-04-desktop:~$
```

Delete Container

Removing or deleting the container means destroying all the processes running inside the container and then deleting the Container. It's preferred to destroy the container, only if present in the stopped state instead of forcefully destroying the running container.

```
$ docker rm <container name>
```

```
parallels@ubuntu-linux-20-04-desktop:~$ docker rm c1
c1
parallels@ubuntu-linux-20-04-desktop:~$ docker rm c2
c2
parallels@ubuntu-linux-20-04-desktop:~$
```

Kill Container

We can kill one or more running containers.

`$ docker kill <container name>`

```
parallels@ubuntu-linux-20-04-desktop:~$ docker kill c1
c1
parallels@ubuntu-linux-20-04-desktop:~$
```

To check running docker

$ docker ps

```
parallels@ubuntu-linux-20-04-desktop:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED          STATUS          PORTS     NAMES
f63f098863b4   ubuntu    "bash"    28 seconds ago   Up 27 seconds             c2
parallels@ubuntu-linux-20-04-desktop:~$
```