```
docker ps       =it verifies the docker is installed or not

docker info     = it will provide the information of docker (eg-no of containers)

docker search images    = it will list specific image in docker hub

apt-get update  =we should update when we want to install any software

apt-get install docker.io       =it will install docker

docker images   = it will shows the images lists of containers

docker run -it image    =it verifies the perticular image is exits in the local or
not,if it is exits 'it will create a container for that image',if it is not exits
it pulls the image from the docker hub and create a container on it

exit    =it will exit from that container and container will stop

docker ps       =it will display the running containers

docker ps -a    =it will display all the containers and shows the docker id and
name

docker start cont ID            = it will start the container here we should
specify the id or name
docker stop contid1 contid2     = it will stop the container id's

docker attach ID        = it will redirect u to docker container using

ctrl+p,r        = it will comeout from container without stopping it

docker cp ContainerName:/file1 /tmp     it will copy the file1 from container to
local host system in the given path temp

docker rm con1 con2 con3        = it will remove containers but first we need to
stop the specific container first

docker run -it --name con1 ubuntu       =it will create docker with specific name
we have mentioned using ubuntu image

docker  tag docker.io/username/repsitory:v1.0 docker.io/username/repository:v2.0
=it will create copy of image from the existing image (but giving new tag from v1.0
to 2.0)

docker run -d -rm busybox sleep 1000    =here busybox is a image and here we are
giving are creating image with ditach mode(-d)i.e stopping and removing(-rm) after
running that comnd

docker inspect container        =it will show information of the container (eg ip
address,status)
```

```
docker exec container1 touch /tmp/test.txt      = it will run commands in the
container1 without opening docker which is running

docker logs continer    = it will show the commands which are executing in that
container

cd /var/lib/docker      =all the images stored in the directary

docker run -it --name PortTest -p 9090:80 ubuntu  =it will container with the name
porttest and assain port 9090 to the container

curl http://localhost:80        =it will create

docker rm $(docker ps -a -q)    = it will delete all stoped containers at once

docker rmi $(docker images -q) -f  =it will delete all dockers images

apt-get install vim     =initaially we dont have vi editor in container so we neet
to install it

docker commit container repositoryname/image  =it will commit the specific
container to the repositoryname(it should be ref from dockerhub) and specify any
image name u need

docker login    = enter the username and password

docker push repositoryname/image        = it will push the image

docker run -it repositoryname/image      = it will pull the image

docker network ls       = it will show all type of networks

docker run -it --net xxxx con1 ubuntu   = it will create the container with the
given network type i.e in xxxx= network type bridge,host,none...etc

docker network rm xxxxxx        = it will remove the specific network

ifconfig        = shows network interfaces list( it will show which network type we
have connected)

apt-get install net-tools       = it should install for ifconfig to run

apt install iputils-ping        =it should install for ping to work

docker exec con1 ping 172.17.0.2  =it will connect other container by giving ip
address of the container which we need to connect ip will be found in docker
inspect(it will be connect when the two containers in same network)

docker run -it -v data:/app ubuntu  = it will create the volume here -v indicates
```

volume and data is the volume name and the /app is the directory where the volume was created

docker volume rm volumename   = it will delete the specific volume

docker run -it -v /home/ubuntu:/app ubuntu =here it will copy the data from host machine directory (i.e /home/ubuntu) to the docker volume directory(i.e /app)

docker build -t imagename:dockerfile /directry = this command is to create our own image first we have to create docker file and write the content of what image need to create and and specify the path of docker file and -t is for tag