Do the following steps and compile a written report on how you did that and the outcomes List (or capture) the docker management commands.

docker create

docker start

docker stop

docker restart

docker pause

docker unpause

docker rename

docker rm

docker ps

docker stats

docker top

docker logs

List (or capture) the commands that belong to docker image and what they do.

docker pull	This command is used to pull an image from a Docker registry.	docker pull ubuntu:latest
docker build	This command is used to build a new Docker image from a Dockerfile.	docker build -t my-image.
docker push	This command is used to push a Docker image to a Docker registry.	docker push my-image
docker tag	This command is used to tag a Docker image with a new name or version.	docker tag my-image my- image:latest
docker rmi	This command is used to remove one or more Docker images.	docker rmi my-image

docker images	This command is used to list the Docker images available on the host.	docker images
docker history	This command is used to display the history of a Docker image.	docker history my-image
docker save	This command is used to save a Docker image to a tar archive.	docker save my-image -o my- image.tar
docker load	This command is used to load a Docker image from a tar archive.	docker load -i my-image.tar

How would you get help on docker image Is command?

Docker help image ls

Give two examples of commands that can be run in two ways in docker?

docker ps -a or docker container ls -a: Lists all containers, including stopped ones.

docker run -it [image\_name] or docker run --interactive --tty [image\_name]: Runs a container in interactive mode.

5. List the docker images you have on your machine? Run the command and capture the results.

```
> docker images
REPOSITORY
           TAG
                   IMAGE ID
                                CREATED
                                            SIZE
ubuntu
           latest
                   e34e831650c1
                                2 weeks ago
                                            77.9MB
                   f8c20f8bbcb6
alpine
          latest
                                6 weeks ago
                                            7.38MB
centos
           latest
                   5d0da3dc9764
                                2 years ago
                                            231MB
```

6. List all the containers on your machine. Run the command and capture the results.

```
> docker ps -a
CONTAINER ID
                    IMAGE
                                  COMMAND
                                                      CREATED
                                                                              STATUS
                                                                                                                      PORTS
                                                                                                                                    NAMES
631259b5f502
                                   "/bin/bash"
                                                                              Exited (130) 7 minutes ago
                    centos
                                                      8 minutes ago
                                                                                                                                    container3
                                  "/bin/bash" 8 minutes ago Exited (130) 8 minutes ago
"/bin/bash" 9 minutes ago Exited (0) 8 minutes ago
"/bin/bash" 9 minutes ago Exited (0) 9 minutes ago
"/bin/sh" 10 minutes ago Exited (0) 10 minutes ago
"/bin/bash" 10 minutes ago Exited (0) 10 minutes ago
501604c790e0
                    alpine
                                                                                                                                    container2
5f6e9e99feec
                    ubuntu
                                                                                                                                    new_container_name1
4bee15328eac
                                                                                                                                    container6
                    centos
7c8e697e7dde
                    alpine
                                                                                                                                    container5
be937b0d8ea5
                    ubuntu
                                                                                                                                    container4
```

7. Run 3 containers on your machine with 3 different operating systems in detached mode and in interactive mode.

```
~\OneDrive - BCIT\Desktop on ○ (us-west-1)
8% > docker run -d --name container4 ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
29202e855b20: Pull complete
Digest: sha256:e6173d4dc55e76b87c4af8db8821b1feae4146dd47341e4d431118c7dd060a74
Status: Downloaded newer image for ubuntu:latest
be937b0d8ea50d2b4648749244f47127ce2eac34ee46eb959eaaa89b671e97d5
8% > docker run -d --name container5 alpine
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
661ff4d9561e: Pull complete
Digest: sha256:51b67269f354137895d43f3b3d810bfacd3945438e94dc5ac55fdac340352f48
Status: Downloaded newer image for alpine:latest
7c8e697e7dded17b9bf2684c5d2adcf3cdbb1d80234fcb57d9af945fe7de1376
8% > docker run -d --name container6 centos
Unable to find image 'centos:latest' locally
latest: Pulling from library/centos
ald0c7532777: Pull complete
Digest: sha256:a27fd8080b517143cbbbab9dfb7c8571c40d67d534bbdee55bd6c473f432b177
Status: Downloaded newer image for centos:latest
4bee15328eacf53df5bd58f899395afae868c4ff0c883720a3b469b0509e0fd9
🚺 9% > docker run -it --name container1 ubuntu
root@5f6e9e99feec:/#
root@5f6e9e99feec:/#
```

8. Run any Linux command on a container running in the background.

```
markus@Laptop:/mnt/c/Users/Markus/OneDrive - BCIT/Desktop$ docker exec container1 ls
bin
boot
dev
etc
home
lib
lib32
lib64
libx32
media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
var
```

9. Rename one of the containers to another name.

10. Clean up all containers on your system?

```
markus@Laptop:/mnt/c/Users/Markus/OneDrive - BCIT/Desktop$ docker stop $(docker ps -q)
9a374b89d0c0
markus@Laptop:/mnt/c/Users/Markus/OneDrive - BCIT/Desktop$ docker rm $(docker ps -a -q)
9a374b89d0c0
```