EXP.NO : 7B DATE : 04.10.23	DOCKER BASIC COMMANDS

AIM:

     To implement the Docker basic commands.

COMMANDS:

#CHECKING THE DOCKER VERSION

```
C:\Users\hkris\Downloads>docker --version
Docker version 24.0.6, build ed223bc
```

#UPDATE THE DOCKER

```
C:\Users\HP>wsl --update
Checking for updates.
The most recent version of Windows Subsystem for Linux is already installed.
```

#PULL THE MONGO INTO THE DOCKER

```
C:\Users\hkris\Downloads>docker pull mongo
Using default tag: latest
latest: Pulling from library/mongo
Digest: sha256:26549961b7dd23ea104ad9ba0c30abec6689fda873070de9fdd2cad304af671d
Status: Image is up to date for mongo:latest
docker.io/library/mongo:latest

What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview mongo
```

#DOCKER IMAGE

```
C:\Users\hkris\Downloads>docker images
REPOSITORY       TAG        IMAGE ID        CREATED          SIZE
mongo            latest     3be86e9501b0    26 hours ago     748MB
mongo-express    latest     627439b12ef2    38 hours ago     247MB
```

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#RUN THE MANGO

```
C:\Users\hkris\Downloads>docker run mongo
{"t":{"$date":"2023-10-04T09:15:11.813+00:00"},"s":"I",  "c":"CONTROL",  "id":23285,   "ctx":"main","msg":"Automatically disabling TLS
-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
{"t":{"$date":"2023-10-04T09:15:11.816+00:00"},"s":"I",  "c":"NETWORK",  "id":4915701, "ctx":"main","msg":"Initialized wire specificati
spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":21},"incomingInternalClient":{"minWireVersion":0,"maxWireVersion":
":{"minWireVersion":6,"maxWireVersion":21},"isInternalClient":true}}}
{"t":{"$date":"2023-10-04T09:15:11.821+00:00"},"s":"I",  "c":"NETWORK",  "id":4648601, "ctx":"main","msg":"Implicit TCP FastOpen unavai
```

#TO SHOW THE CONTAINERS

```
C:\Users\hkris\Downloads>docker ps
CONTAINER ID    IMAGE      COMMAND     CREATED     STATUS     PORTS      NAMES
```

#TO RUN THE SERVER IN DETACH MODE

```
C:\Users\hkris\Downloads>docker run -d mongo
1f4a1173a25a1a4721957cc6b9edb46956982510e25605c6f70b8bd1f8608424
```

```
C:\Users\hkris\Downloads>docker ps
CONTAINER ID   IMAGE    COMMAND          CREATED         STATUS        PORTS      NAMES
1f4a1173a25a   mongo    "docker-entrypoint.s…"  13 seconds ago   Up 12 seconds  27017/tcp  quizzical_stonebraker
```

#START AND STOP THE CONTAINER

```
C:\Users\hkris\Downloads>docker stop 1f4a1173a25a
1f4a1173a25a

C:\Users\hkris\Downloads>docker start 1f4a1173a25a
1f4a1173a25a
```

#TO VIEW THE DEBUGS IN CONTAINER

```
C:\Users\hkris\Downloads>docker logs 1f4a1173a25a
{"t":{"$date":"2023-10-04T09:26:58.354+00:00"},"s":"I",  "c":"CONTROL",  "id":23285,   "
-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
{"t":{"$date":"2023-10-04T09:26:58.354+00:00"},"s":"I",  "c":"NETWORK",  "id":4915701, "
spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":21},"incomingIntern
":{"minWireVersion":6,"maxWireVersion":21},"isInternalClient":true}}}
{"t":{"$date":"2023-10-04T09:26:58.356+00:00"},"s":"I",  "c":"NETWORK",  "id":4648601, "
 FastOpen is required, set tcpFastOpenServer, tcpFastOpenClient, and tcpFastOpenQueueSiz
```

```
C:\Users\hkris\Downloads>docker logs quizzical_stonebraker
{"t":{"$date":"2023-10-04T09:26:58.354+00:00"},"s":"I",  "c":"CONTROL"
-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
{"t":{"$date":"2023-10-04T09:26:58.354+00:00"},"s":"I",  "c":"NETWORK"
spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":2
":{"minWireVersion":6,"maxWireVersion":21},"isInternalClient":true}}}
{"t":{"$date":"2023-10-04T09:26:58.356+00:00"},"s":"I",  "c":"NETWORK"
```

#ASSIGN THE NAME FOR THE CONTAINER
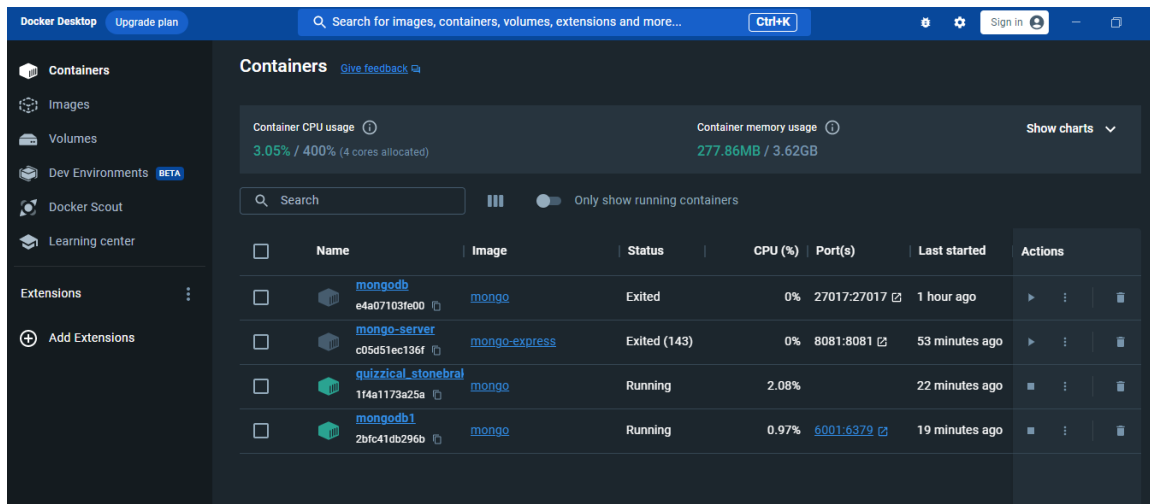
```
C:\Users\hkris\Downloads>docker run -d -p6001:6379 --name mongodb1 mongo
2bfc41db296b728b3a30a128897eb6dc82031332160099968e3c4cd2cc118c2b
```

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```
C:\Users\hkris\Downloads>docker ps
CONTAINER ID   IMAGE    COMMAND                CREATED          STATUS          PORTS                                 NAMES
2bfc41db296b   mongo    "docker-entrypoint.s…" 7 seconds ago    Up 6 seconds    27017/tcp, 0.0.0.0:6001->6379/tcp     mongodb1
1f4a1173a25a   mongo    "docker-entrypoint.s…" 5 minutes ago    Up 3 minutes    27017/tcp                             quizzical_stonebraker
```

#DELETING

```
C:\Users\hkris\Downloads>docker exec -it 2bfc41db296b /bin/bash
root@2bfc41db296b:/# ls
bin    docker-entrypoint-initdb.d  lib     media  root  sys
boot   etc                         lib32   mnt    run   tmp
data   home                        lib64   opt    sbin  usr
dev    js-yaml.js                  libx32  proc   srv   var
root@2bfc41db296b:/# pwd
/
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
_=/usr/bin/env
OLDPWD=/
root@2bfc41db296b:/# exit
exit
```

OUTPUT:

Preparation	30	
Lab Performance	30	
Report	40	
Total	100	
Initial of Faculty		

RESULT:

Thus ,the implementation of Docker basic command has been completed and executed successfully.

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