Assignment – 6

Create a user case where: Create a docker volume: codemind_volume. Map it within container name: codemind_container1 to a location: /opt/log/. Get some data generated [touch [1..3].txt] inside container on location: /opt/log/. Validate this data is getting copied in docker volume host's path. Remove container name: codemind_container1. Run a new container name: codemind_container1 with mapping of volume: codemind_volume. Test and validate that data from previous container is getting reflected in the new container via this volume mapping.

```
bhushan@ubuntu:~$ docker volume create codemind_volume
codemind_volume
bhushan@ubuntu:~$ docker run -it --name codemind_container1 -v codemind_volume:/opt/log/ ubuntu:latest
root@02e8f7b56d3f:/# touch /opt/log/{1..3}.txt
root@02e8f7b56d3f:/# cd /opt/log/
root@02e8f7b56d3f:/opt/log# ls
1.txt  2.txt  3.txt
root@02e8f7b56d3f:/opt/log# exit
exit
bhushan@ubuntu:~$ docker volume inspect codemind_volume
[
    {
        "CreatedAt": "2023-03-31T00:41:23-07:00",
        "Driver": "local",
        "Labels": {},
        "Mountpoint": "/var/lib/docker/volumes/codemind_volume/_data",
        "Name": "codemind_volume",
        "Options": {},
        "Scope": "local"
    }
]
bhushan@ubuntu:~$ docker rm codemind_container1
codemind_container1
bhushan@ubuntu:~$ docker run -it --name codemind_container1 -v codemind_volume:/opt/log/ ubuntu:latest
root@b1023c08af45:/# cd /opt/log/
root@b1023c08af45:/opt/log# ls
1.txt  2.txt  3.txt
root@b1023c08af45:/opt/log# exit
exit
bhushan@ubuntu:~$
```

Point 1: Create a docker volume: codemind_volume.

```
bhushan@ubuntu:~$ docker volume create codemind_volume
codemind_volume
```

Point 2: Map it within container name: codemind_container1 to a location: /opt/log/. Get some data generated [touch [1..3].txt] inside container on location: /opt/log/. Validate this data is getting copied in docker volume host's path.

```
bhushan@ubuntu:~$ docker run -it --name codemind_container1 -v codemind_volume:/opt/log/ ubuntu:latest
root@02e8f7b56d3f:/# touch /opt/log/{1..3}.txt
root@02e8f7b56d3f:/# cd /opt/log/
root@02e8f7b56d3f:/opt/log# ls
1.txt  2.txt  3.txt
root@02e8f7b56d3f:/opt/log# exit
exit
```

Point 3: Remove container name: codemind_container1.

```
bhushan@ubuntu:~$ docker volume inspect codemind_volume
[
    {
        "CreatedAt": "2023-03-31T00:41:23-07:00",
        "Driver": "local",
        "Labels": {},
        "Mountpoint": "/var/lib/docker/volumes/codemind_volume/_data",
        "Name": "codemind_volume",
        "Options": {},
        "Scope": "local"
    }
]
bhushan@ubuntu:~$ docker rm codemind_container1
codemind_container1
```

Point 4: Run a new container name: codemind_container1 with mapping of volume: codemind_volume. Test and validate that data from previous container is getting reflected in the new container via this volume mapping.