Date: 04-02-26
INT332

Create a Docker volume named studentdata.

- Run an Ubuntu container and mount studentdata at /student.

- Create a file inside the container and verify it persists after container deletion.

- Attach the same volume to another container and verify the file exists.

- Demonstrate data sharing between two containers using a shared volume.

- Show that deleting a container does NOT delete the volume data.

Commands:

docker volume create studentdata

```
sumitkumarmehta@sumits-MacBook-Air ~ % docker volume create studentdata
studentdata
```

docker volume ls

```
sumitkumarmehta@sumits-MacBook-Air ~ % docker volume ls
DRIVER    VOLUME NAME
local     24ae62000e576bf2dde5991327774e10dff1cd0b93a0c213a743825bab330aef
local     studentdata
```

docker run -it -v studentdata:/student --name my_new_container ubuntu

```
sumitkumarmehta@sumits-MacBook-Air ~ % docker run -it -v studentdata:/student --name my_new_container ubuntu bash
root@8da9ea523cb4:/# ls
bin  boot  dev  etc  home  lib  media  mnt  opt  proc  root  run  sbin  srv  student  sys  tmp  usr  var
root@8da9ea523cb4:/#


sumitkumarmehta@sumits-MacBook-Air ~ % docker run -it -v studentdata:/student --name my_new_container ubuntu bash
root@8da9ea523cb4:/# ls
bin  boot  dev  etc  home  lib  media  mnt  opt  proc  root  run  sbin  srv  student  sys  tmp  usr  var
root@8da9ea523cb4:/# cd student
root@8da9ea523cb4:/student# echo "hello from new_container" > file.txt
root@8da9ea523cb4:/student# ls
file.txt
root@8da9ea523cb4:/student#
```