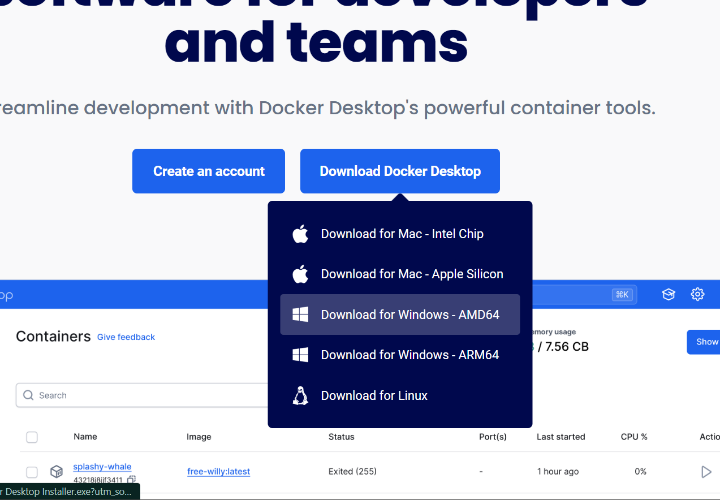
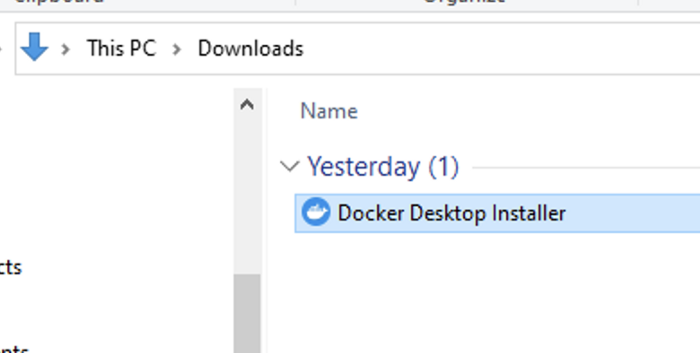
**Docker Commands:**

Step1: Download and install docker for desktop.

The first place to start is the [official Docker website](https://www.docker.com/get-started/) from where we can download Docker Desktop.

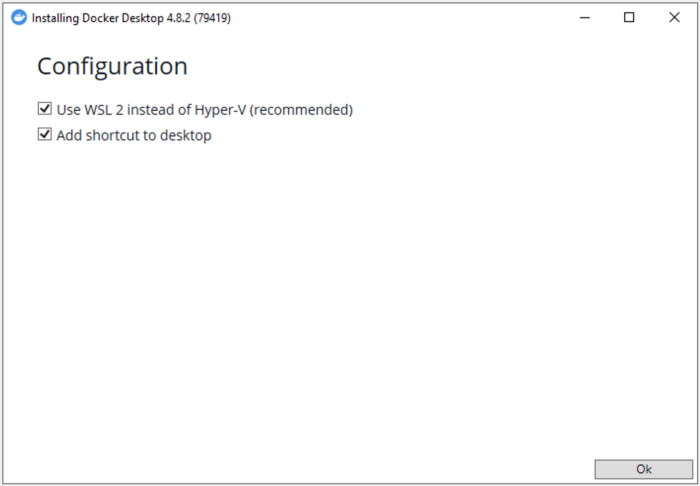


So let’s open the downloaded installer and begin the installation.



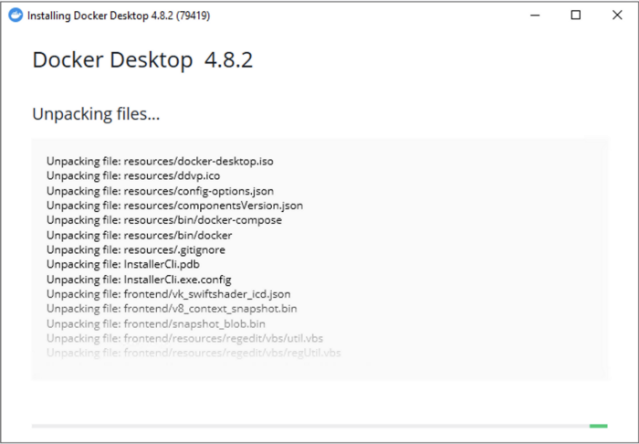
# Step 2: Configuration

To run Linux on Windows, Docker requires a virtualization engine. Docker recommends using WSL 2.



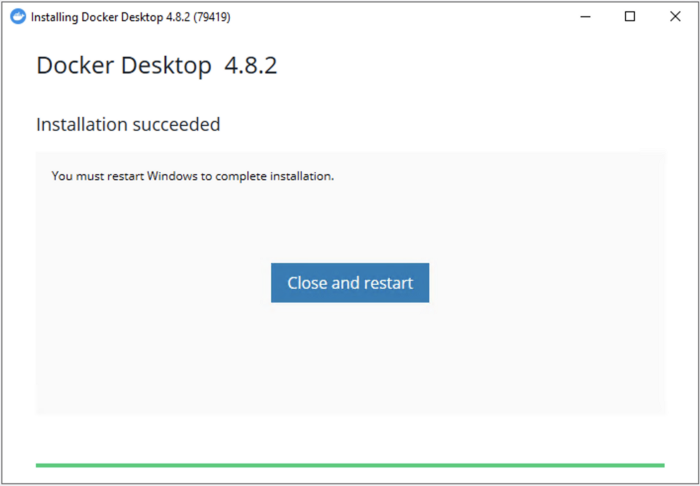
# Step 3: Running the instalation

Click Ok, and wait a bit…



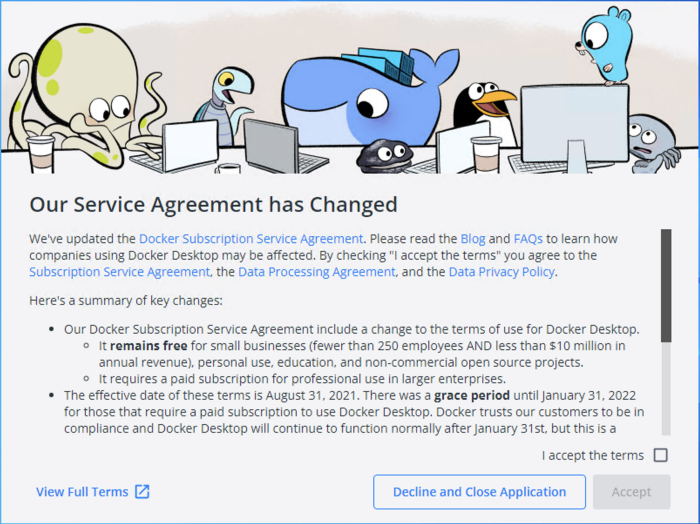
# Step 4: Restart

For Docker to be able to properly register with Windows, a restart is required at this point.



# Step 5: License agreement

After the restart, Docker will start automatically and you should see the window below:



To run the docker just open the docker

Next Go to the command prompt and give command as follows:

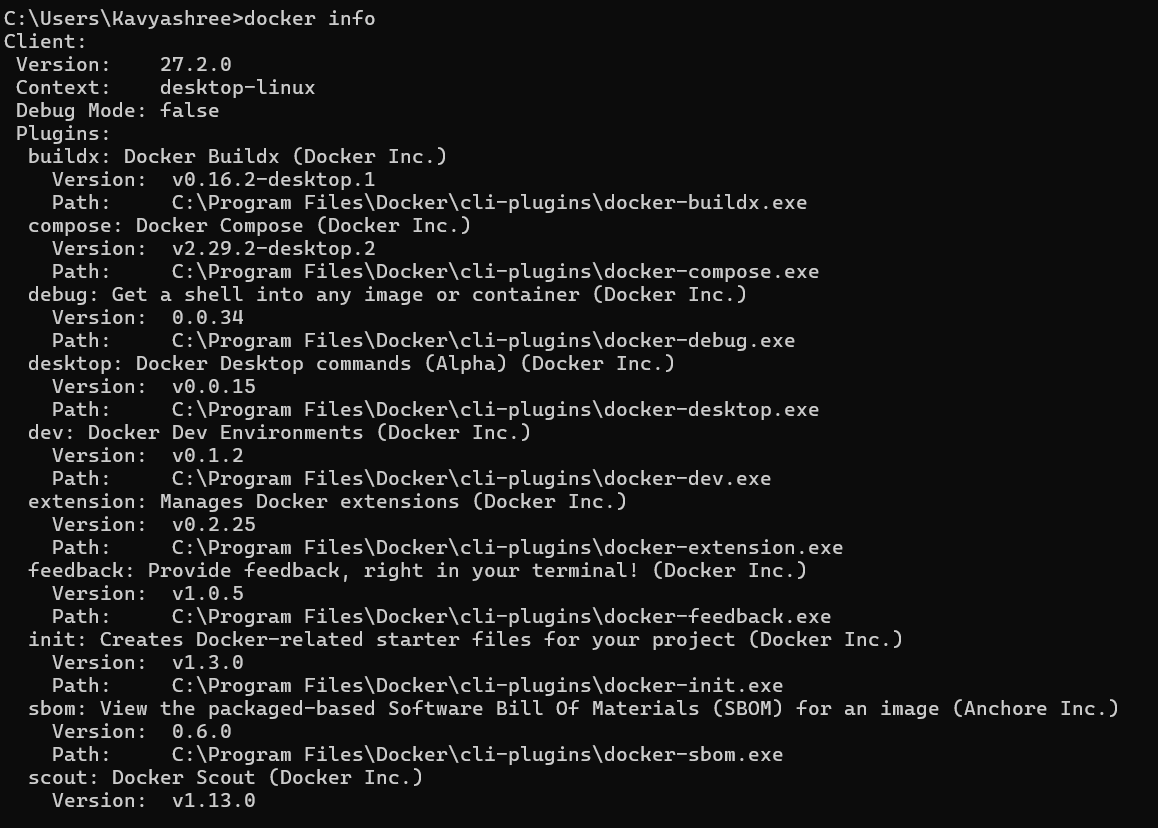
* **To work with Ubuntu:**

**//check the docker version**

docker –v

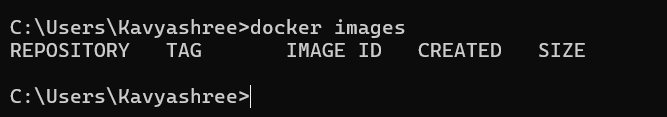


**//to get the docker information**

docker info

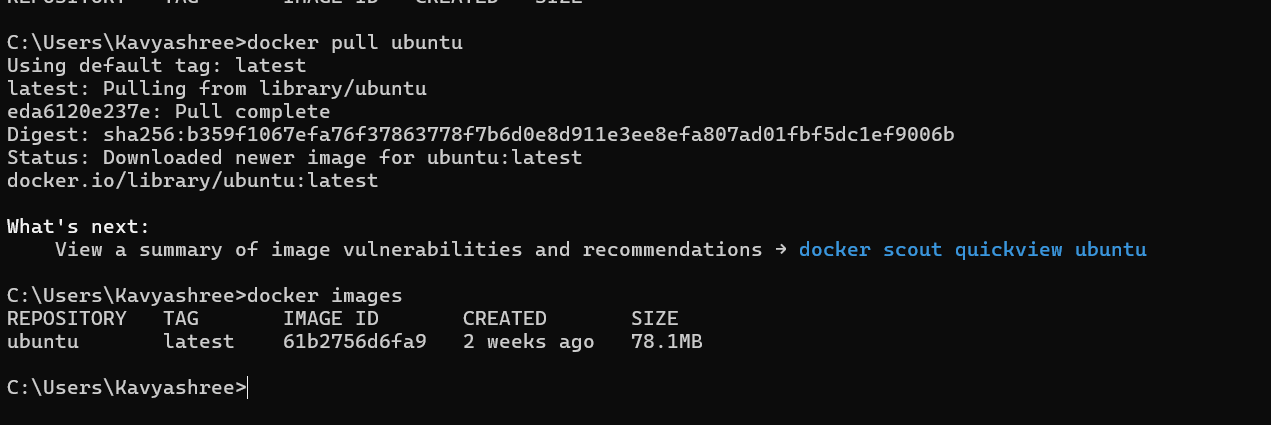
**//to list all Docker images**

docker images



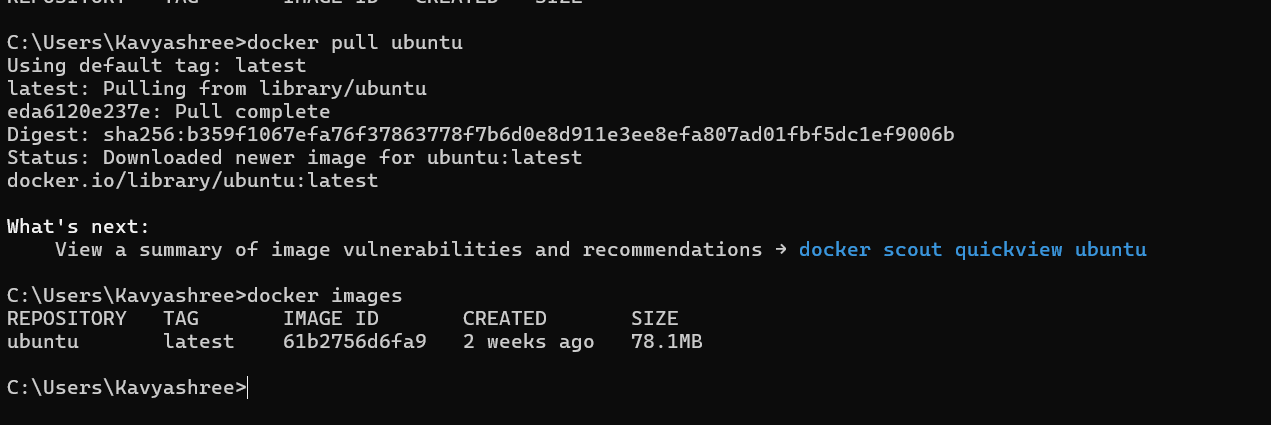
**//to downloads the Ubuntu image from Docker Hub**

docker pull ubuntu



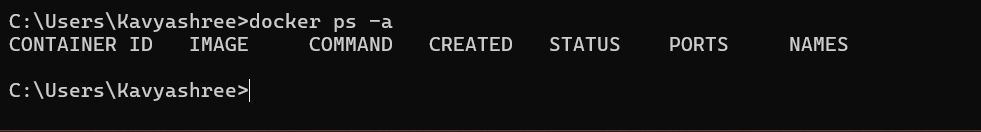
**//to list all Docker images**

docker images



**//to check container list**

docker ps -a



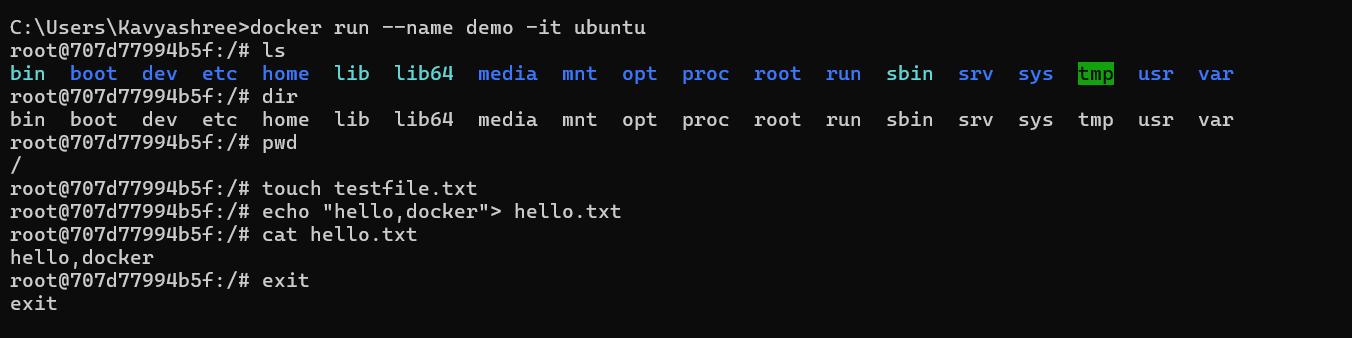
**//to save the image to container**

docker run --name demo –it ubuntu

**>ls**

**>dir**

**>pwd**



**To create a file in ubuntu**

**>touch testfile.txt**

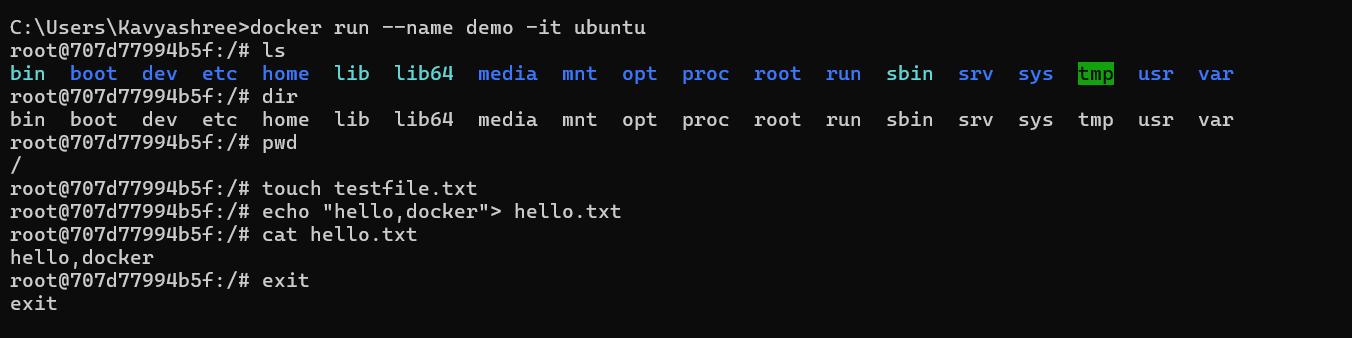
**>mkdir newfolder**

**>echo “hello,docker”>hello.txt**

**>ls**

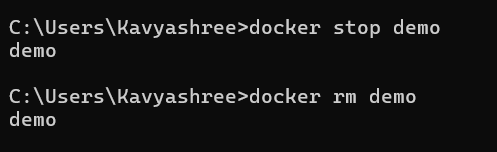
**>cat hello.txt**

Press ctrl+d



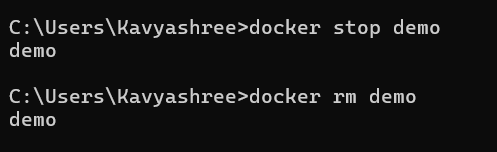
**//to stop the container**

docker stop demo



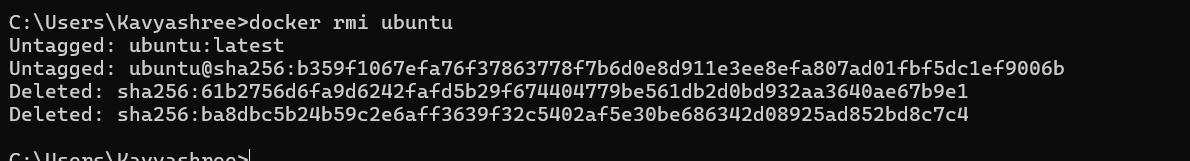
**//to remove the container**

docker rm demo



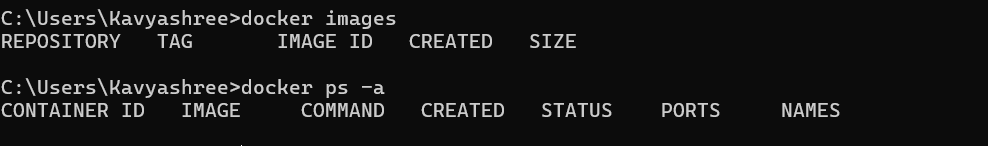
**//to remove docker image**

docker rmi ubuntu



**//to list docker images**

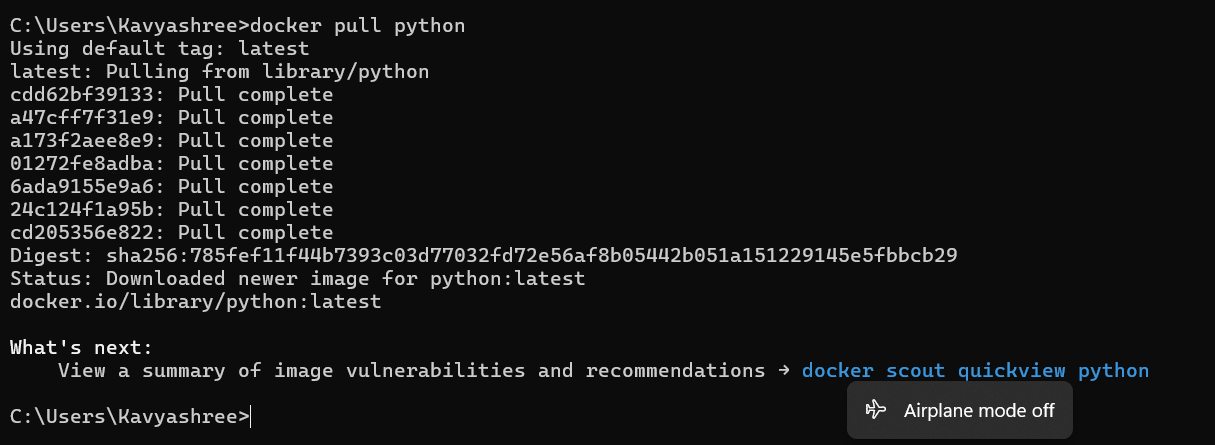
docker images



* **To work with Python:**

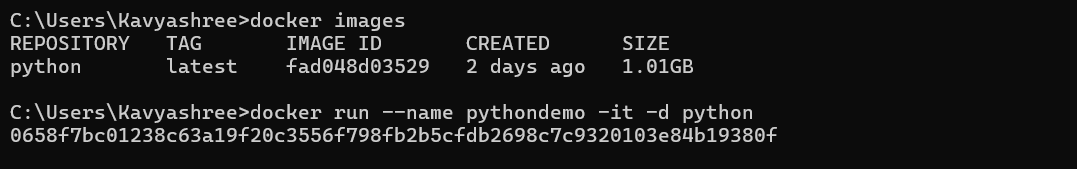
**//to downloads the Python image from Docker Hub**

docker pull python



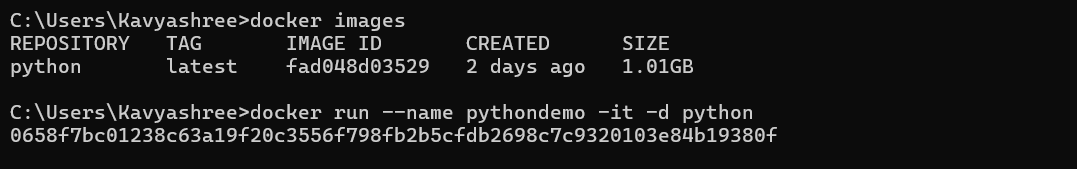
**//to list all Docker images**

docker images



**//to create a container**

docker run --name pythondemo –it –d python



**//to execute python using container & image name**

docker exec –it pythondemo –it –d python

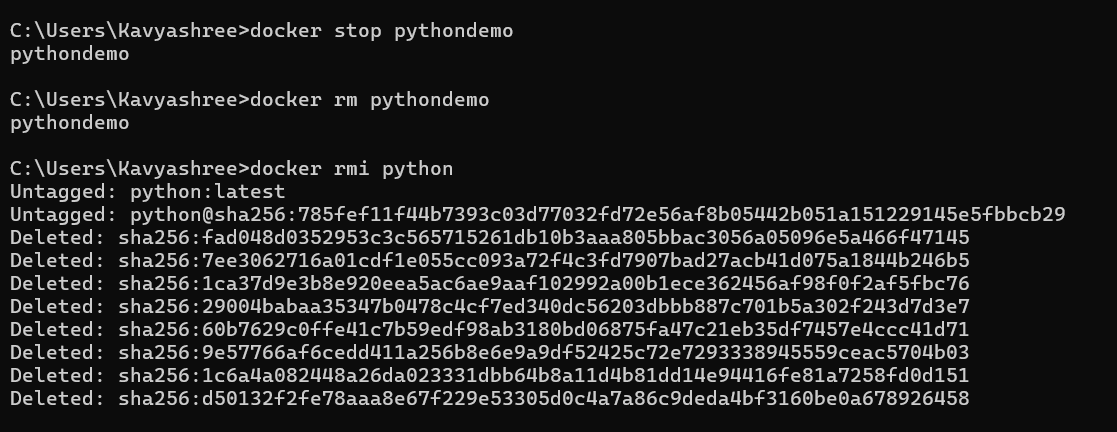


**//to exit**

Press ctrl+d or type exit

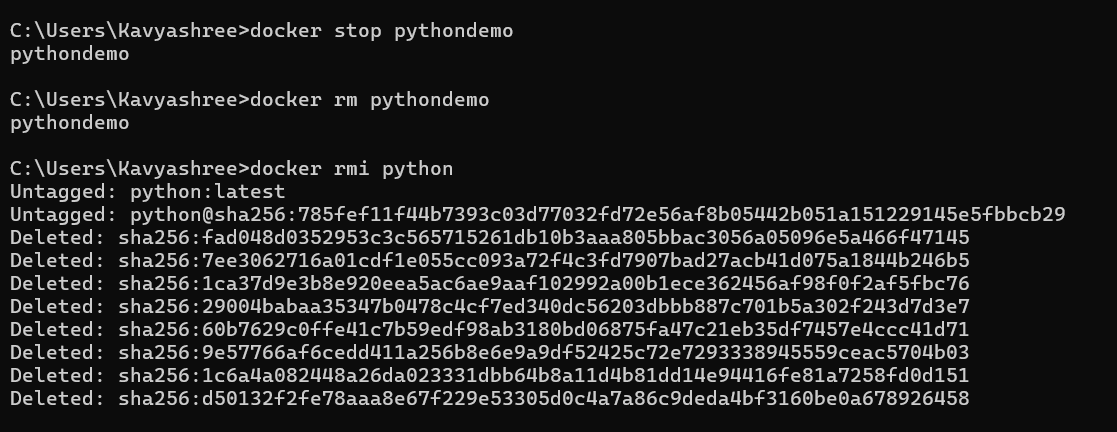
**//to stop the container**

docker stop pythondemo



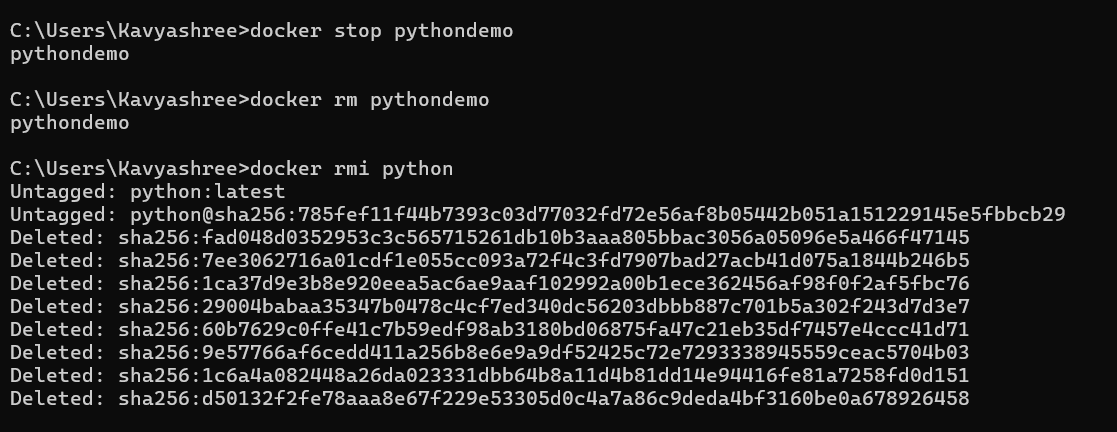
**//to remove the container**

docker rm pythondemo



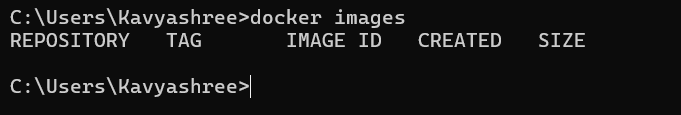
**//to remove the image**

docker rmi python



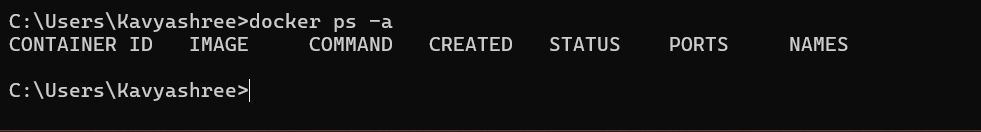
**//to list docker images**

docker images



**//to check container list**

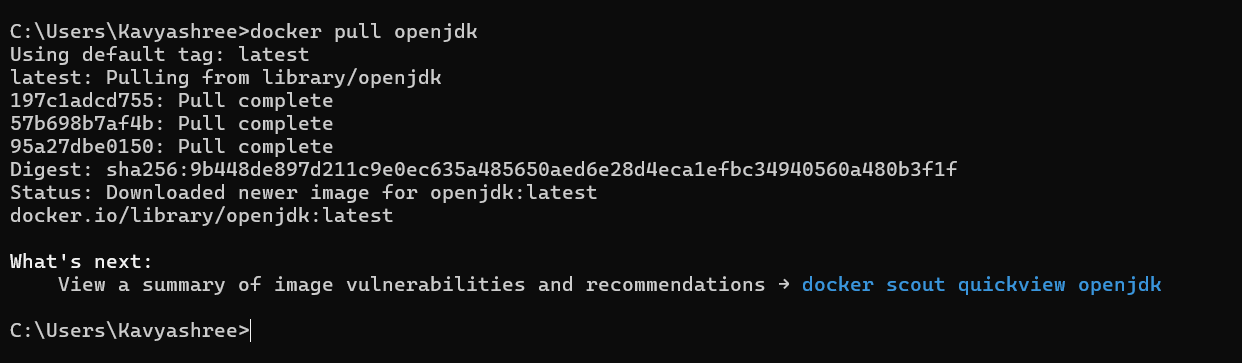
docker ps -a



* **To work with Java:**

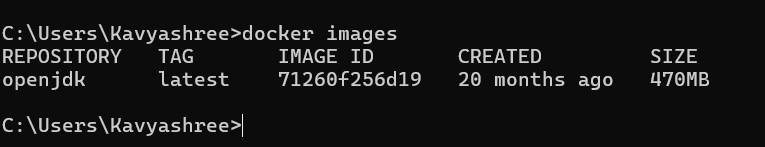
**//to downloads the Java image from Docker Hub**

docker pull openjdk



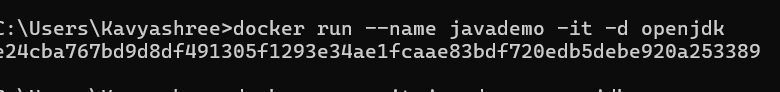
**//to list docker images**

docker images



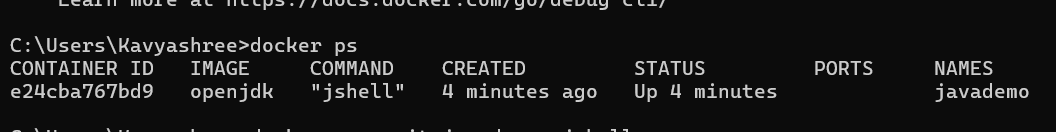
**//to create container**

docker run --name javademo –it –d openjdk



**//to check container list**

docker ps –a

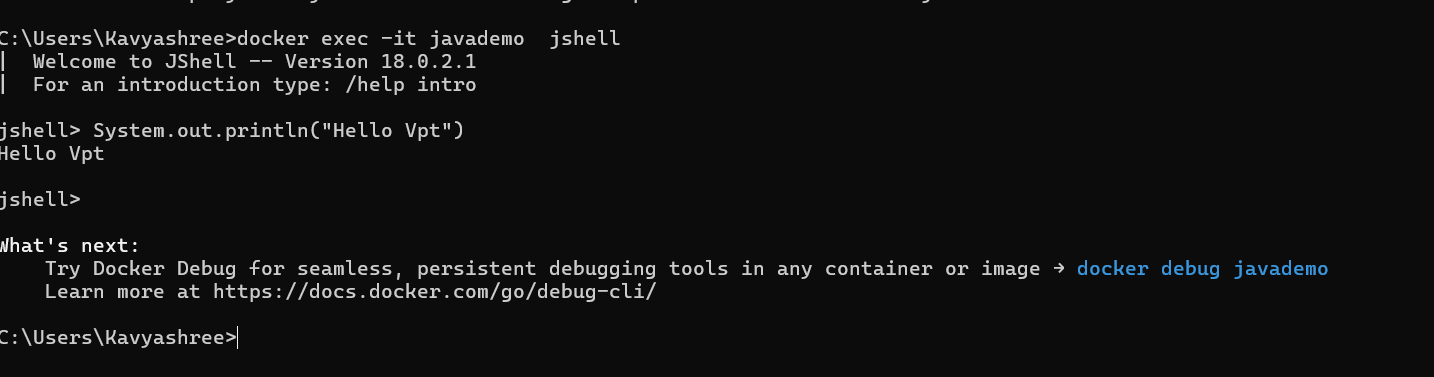


**//to execute the java using container and images**

docker exec –it javademo openjdk jshell

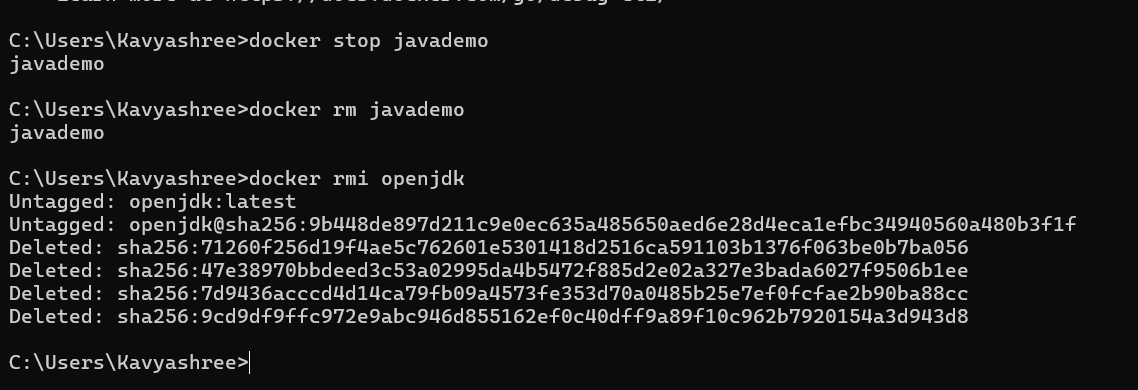
jshell>System.out.println(“hello VPT”)

press cntrl+d



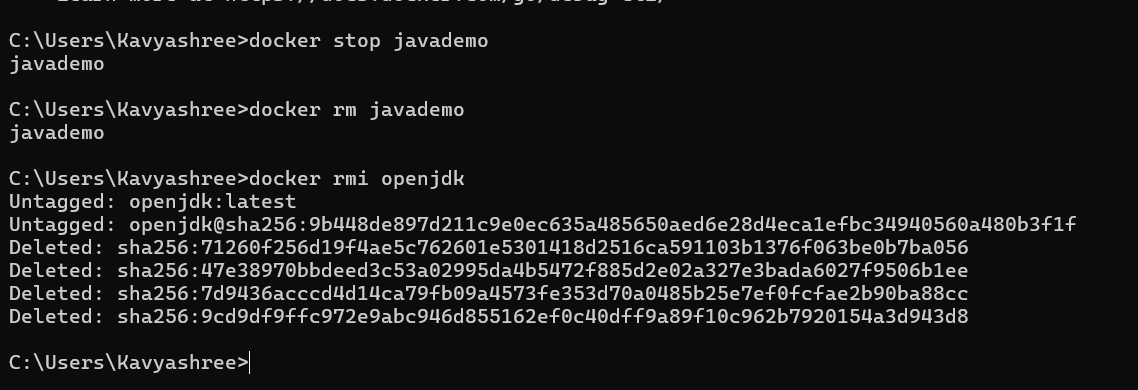
**//to stop the docker container**

docker stop javademo



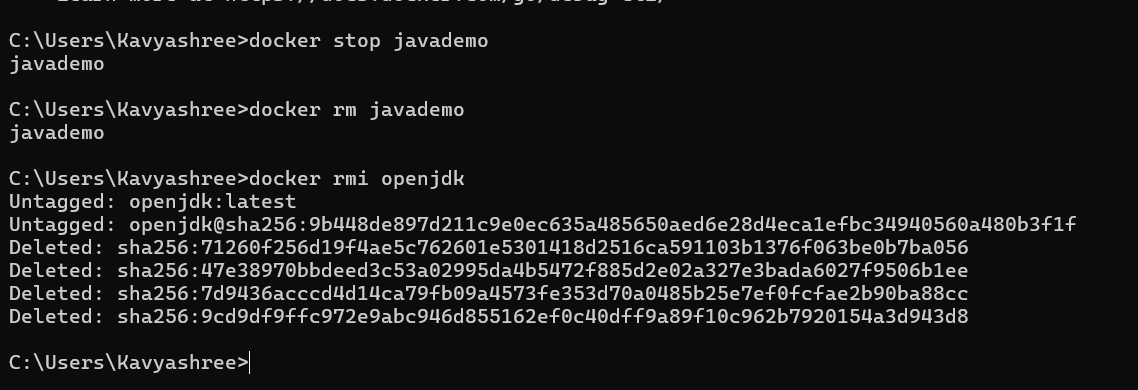
**//to remove the docker container**

docker rm javademo

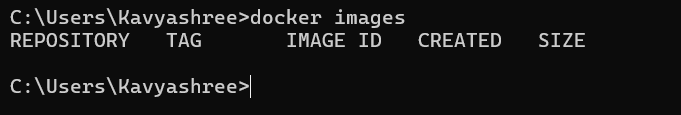


**//to remove the docker image**

docker rmi openjdk

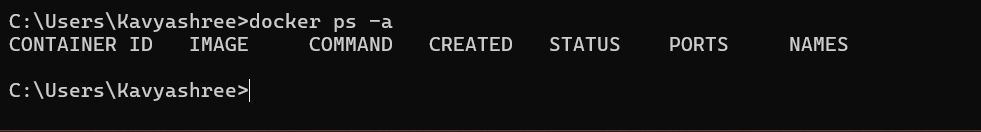


docker images



**//to check container list**

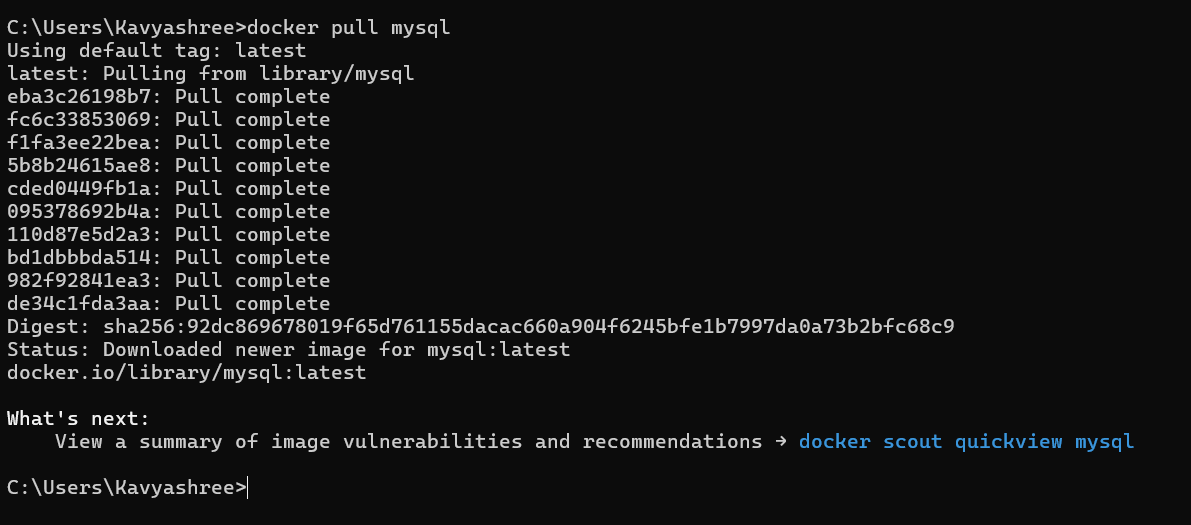
docker ps -a



* **To work with MySQL:**

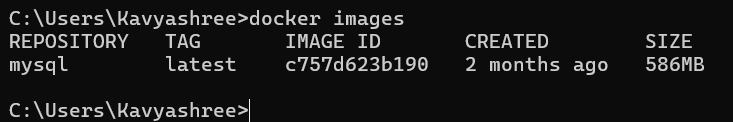
**//to downloads the mysql image from Docker Hub**

docker pull mysql



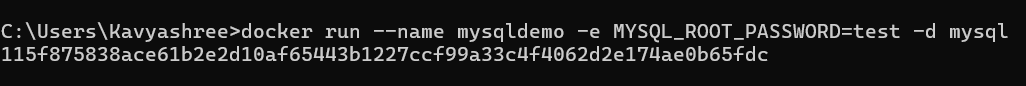
**//to list the docker images**

docker images



**//to set the username and password**

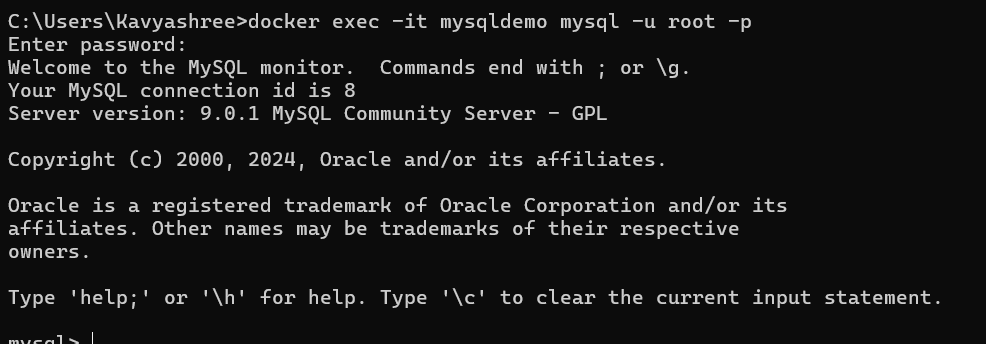
docker run --name mysqldemo –e MYSQL\_ROOT\_PASSWORD=test –d mysql



**//to enter the uername and password**

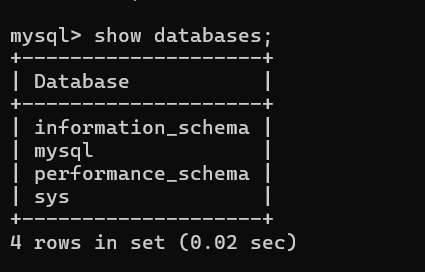
docker exec –it mysqldemo mysql –u root –p

Enter password:test



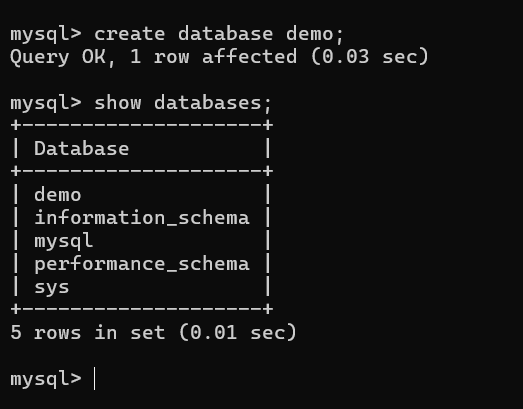
**//give mysql commands**

**mysql>show databases;**



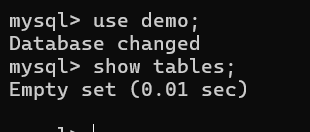
**mysql>create database demo;**

**mysql>show databases;**

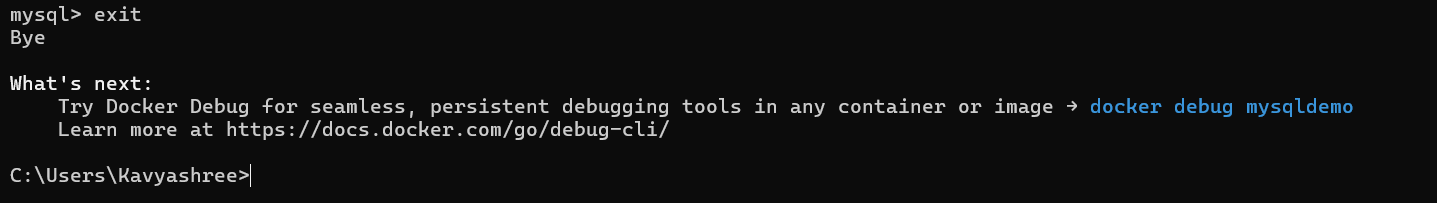


**mysql>use demo;**

**mysql>show tables;**

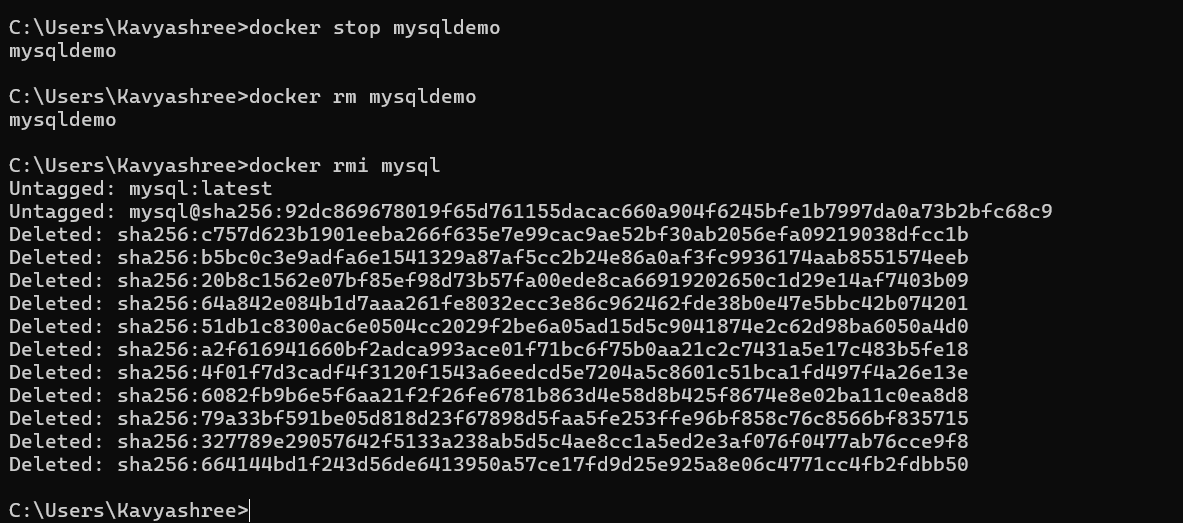


press ctrl+d



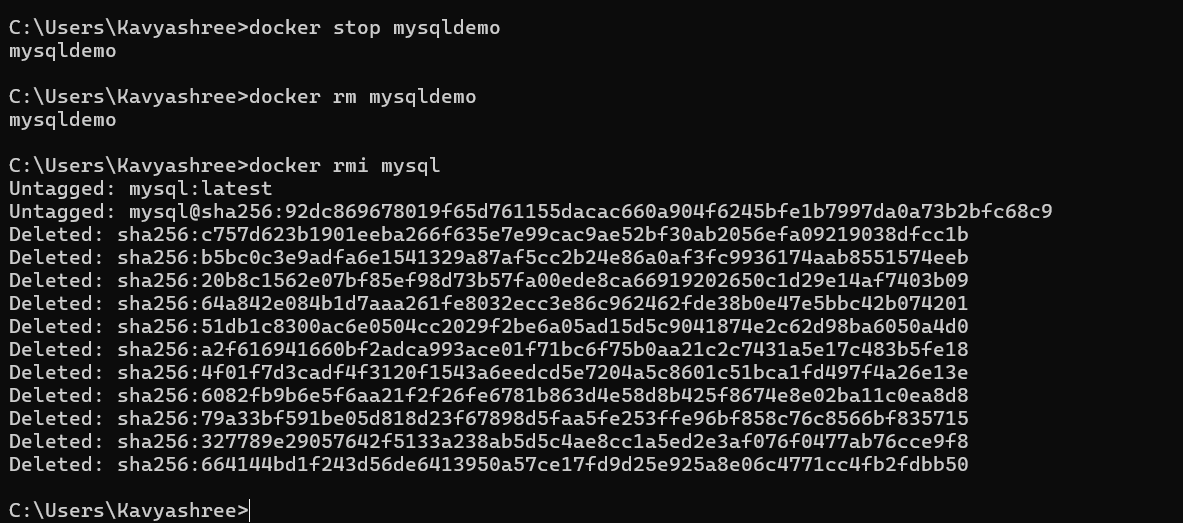
**//to stop docker container**

docker stop mysqldemo



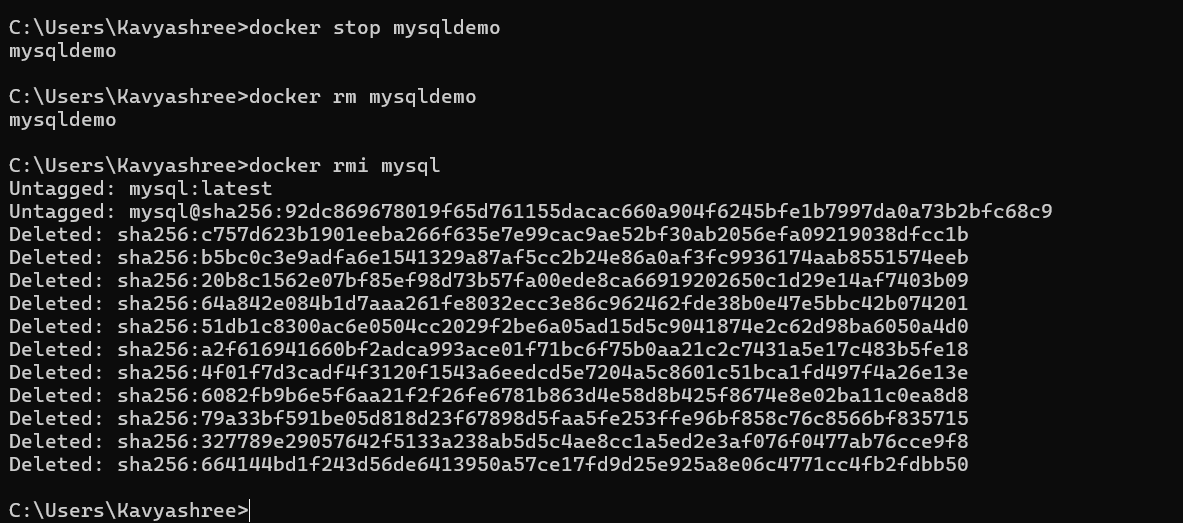
**//to remove docker container**

docker rm mysqldemo

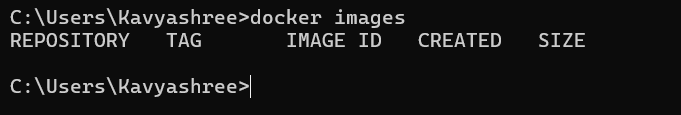


**//to remove docker image**

docker rmi mysql

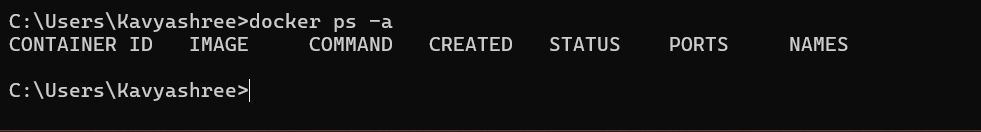


docker images



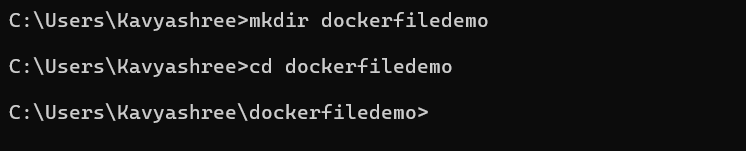
**//to check container list**

docker ps -a

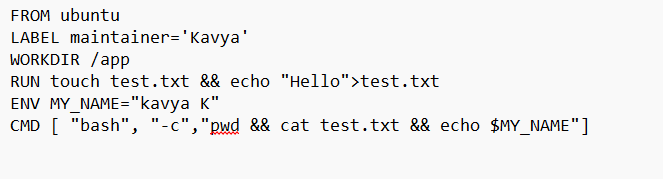


* **//to create docker directory**

mkdir dockerdemofile



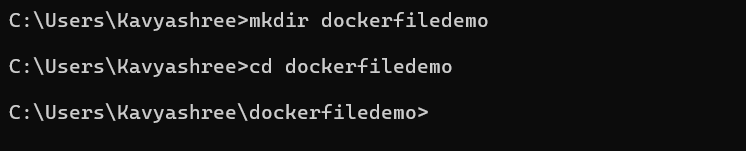
**Next create a dockerfile and the following content**

****

**Then change the file.txt to file🡪**

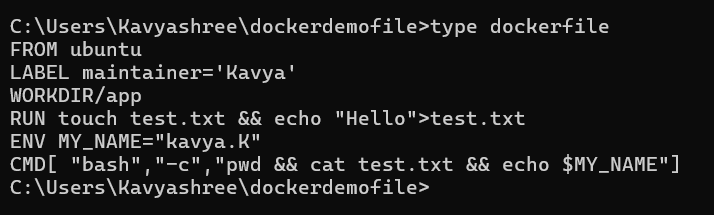
**//to change directory**

cd dockerdemofile



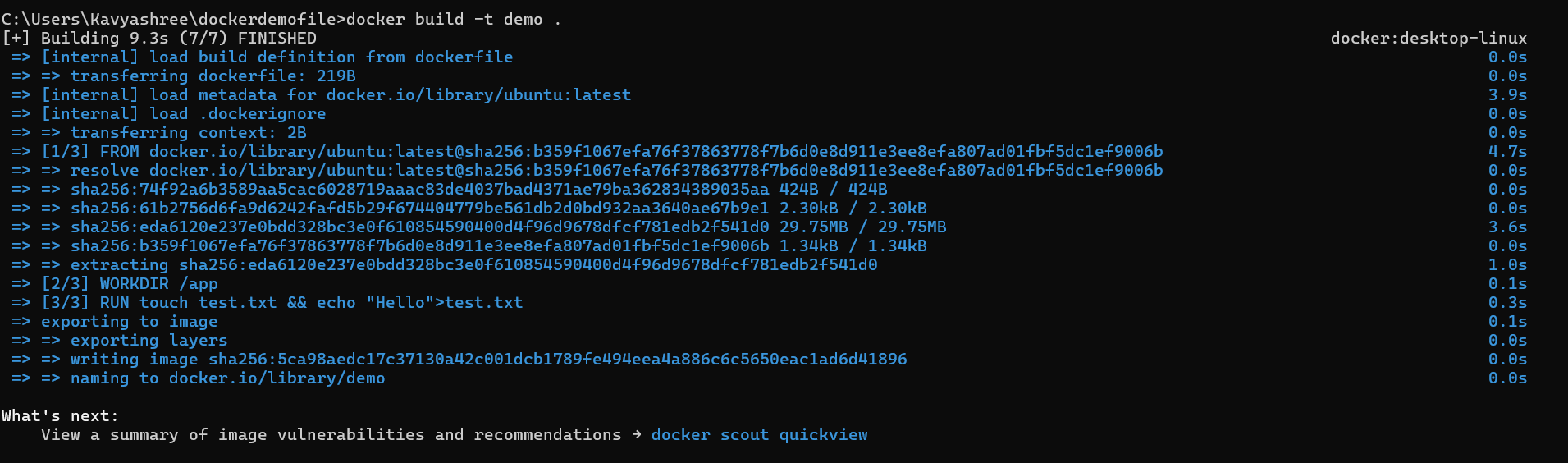
**//to check the location of the file**

type docker

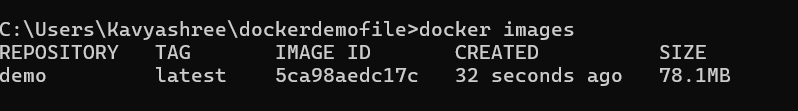


**//create a Docker image from a Dockerfile located in the current directory**

docker build –t demo .

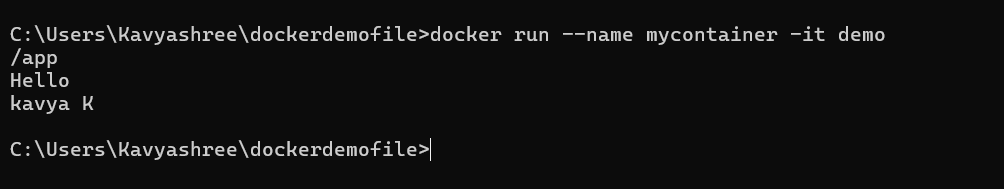


**//to list docker images**

docker images

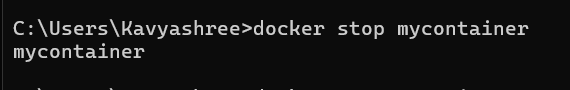
**//to save the images to container**

docker run --name mycontainer –it demo

****

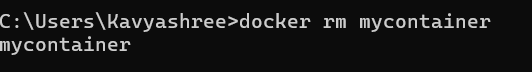
**//to stop the container**

docker stop mycontainer



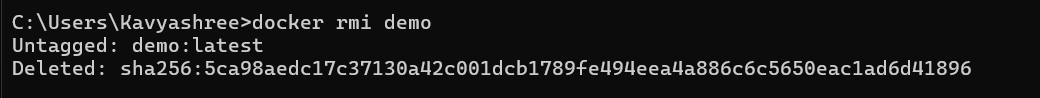
**//to remove the container**

docker rm mycontainer



**//to remove the images**

docker rmi demo



**//to check container list**

docker ps -a

