

School of Computer Science, Engineering and Applications(SCSEA)
B.C.A. TY (CCSA)
Subject : Containers and Orchestration (P)

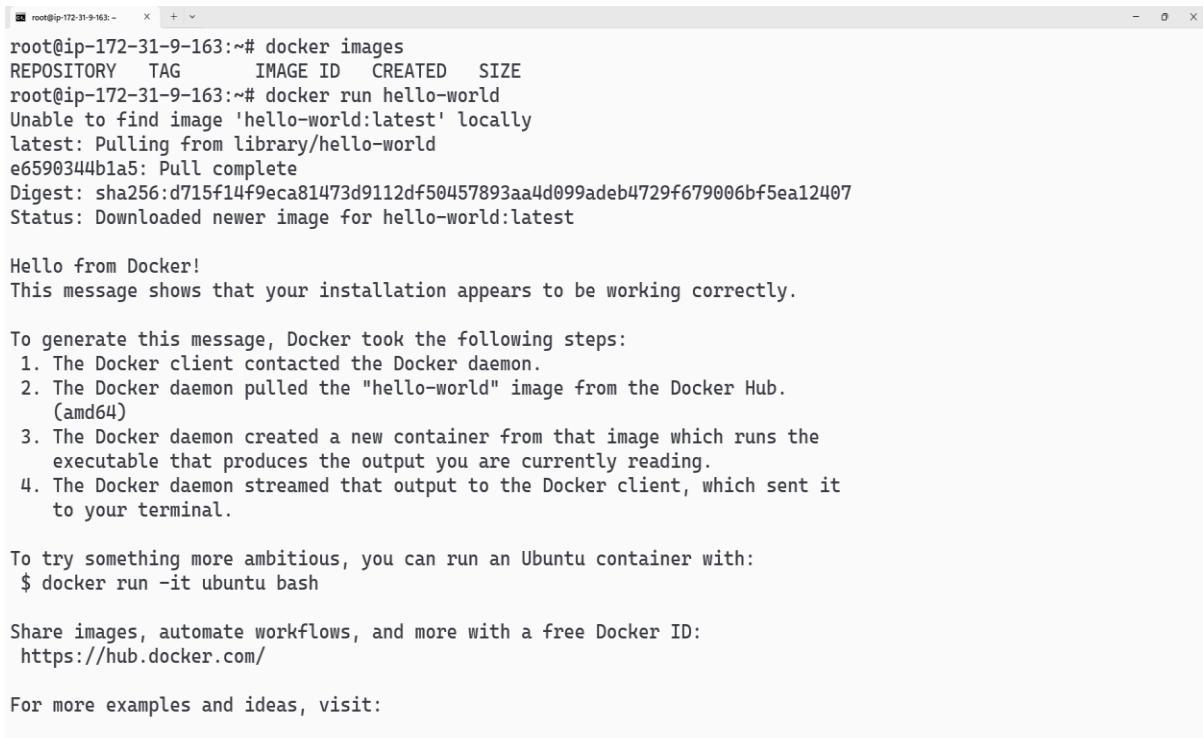
Name of the Student: **Prakhar Anil Sharma** **PRN: 20220801121**

Title of Practical: **Run and Verify a hello world Docker Container: Observe Output and Container State**

Step 1] To Pull one image and run it and observe the output :

Enter the following commands –

- **docker images .**
- **docker run hello-world .**
- **docker images .**



```
root@ip-172-31-9-163:~# docker images
REPOSITORY TAG          IMAGE ID      CREATED      SIZE
root@ip-172-31-9-163:~# docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
e6590344b1a5: Pull complete
Digest: sha256:d715f14f9eca81473d9112df50457893aa4d099adeb4729f679006bf5ea12407
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
```

Step 6] Verify Container output and creation :

To verify container output and creation, run the below commands-

- **docker container ls .**

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- docker container ls -a .

```
root@ip-172-31-9-163:~# docker images
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root@ip-172-31-9-163:~# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
hello-world    latest    74cc54e27dc4   4 days ago    10.1kB
root@ip-172-31-9-163:~# docker container ls
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
root@ip-172-31-9-163:~# docker container ls -a
CONTAINER ID   IMAGE     COMMAND   CREATED        STATUS      PORTS   NAMES
ce7b18ea5e99   hello-world  "/hello"   About a minute ago  Exited (0) About a minute ago  stupefied_banzai
root@ip-172-31-9-163:~#
```