Module-3: Docker – I Assignment – 4

You have been asked to:

Create a dockerfile with the following specs:

- **Ubuntu container**
- **Apache2 installed**
- **Apache2 should automatically run once the container starts Submit the dockerfile, for assignment completion**

This task can be achieved as follows:

- **Creating file named DockerFile as shown below by applying following commands**

```
root@MTLP-1751:~# sudo nano DockerFile
```

- **Then we need to write commands to be executed as shown below to achieve the task**

```
  GNU nano 6.2                                                    Dockerfile
# Use the official Ubuntu base image
FROM ubuntu:latest

# Install Apache2
RUN apt-get update && \
    apt-get install -y apache2 && \
    apt-get clean && \
    rm -rf /var/lib/apt/lists/*

# Automatically start Apache2 when the container starts
CMD ["apache2ctl", "-D", "FOREGROUND"]

# Expose port 80 to the outside world
EXPOSE 80
```

● **Then build image by using command and run the same automatically will start apache server**

```
root@MTLP-1751:~# ls
DockerFile  Dockerfile  file1.sh  file1.txt  sai
root@MTLP-1751:~# sudo docker build . -t test01
[+] Building 170.9s (6/6) FINISHED
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 376B
 => [internal] load metadata for docker.io/library/ubuntu:latest
 => [1/2] FROM docker.io/library/ubuntu:latest
 => [2/2] RUN apt-get update &&     apt-get install -y apache2 &&     apt-get clean &&     rm -rf /var/lib/apt/lists/*
 => exporting to image
 => => exporting layers
 => => writing image sha256:4eb66f91de802b1db55d45f8d0eece1f66b6256579d644f8b0a06e6fb14e7052
 => => naming to docker.io/library/test01
root@MTLP-1751:~# sudo docker images
REPOSITORY                     TAG       IMAGE ID       CREATED          SIZE
test01                         latest    4eb66f91de80   11 seconds ago   193MB
sairajareddymuli/sairajareddy  latest    a9072a9d2d74   7 days ago       232MB
myimage                        latest    a9072a9d2d74   7 days ago       232MB
sairajareddy/myimage           latest    a9072a9d2d74   7 days ago       232MB
ubuntu                         myimage   c840f2a3bd27   7 days ago       232MB
<none>                         <none>    6feda19911f3   7 days ago       232MB
my_docker_image                latest    8910e5deeb88   7 days ago       232MB
<none>                         <none>    18a84c14d80c   7 days ago       232MB
ubuntu                         latest    e4c58958181a   7 weeks ago      77.8MB
ubuntu                         20.04     bf40b7bc7a11   8 weeks ago      72.8MB
root@MTLP-1751:~# sudo docker run -itd -p 87:80 test01
613c310463c21af7c961ef53c0da0c6f721b5a17e0670191034648b49659afb9
root@MTLP-1751:~# sudo docker run -itd -p 80:80 test01
296fd3500270387ee5459acc52fd453196cc67a3343e59591086303c881d1a5d
```

● **As shown below by visit http://localhost we can achieve the task as shown below.**