Assignment-09-Docker.

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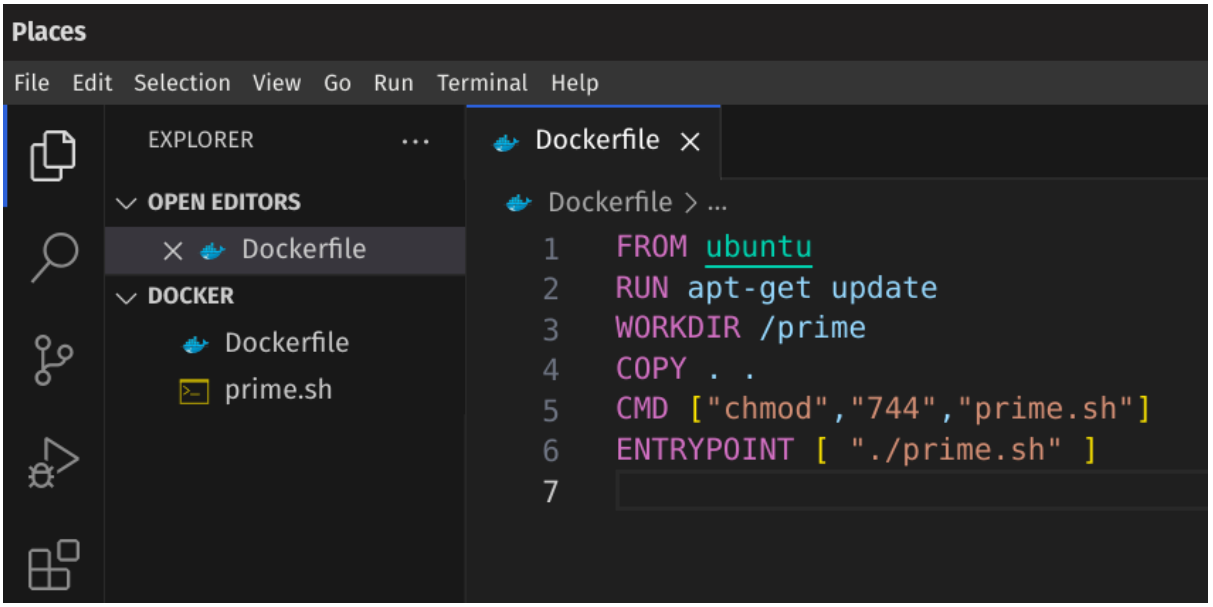
My Procedure

Step 1: Created a docker file →Dockerfile

1. Pull the prime.sh code from github.
2. Now go to the directory and create a Dockerfile.
3. In the Dockerfile make an ENTRYPOINT for the prime.sh



A Dockerfile under Docker Folder has been Created.

Step 2: Building an image from the Dockerfile

1. Go to the Docker folder.
2. Now the [sudo docker build -t prime-image .] cmd has been run.

Check the existing images:

```
sakib@The-Silly-Sultan:~/Docker$ sudo docker images
REPOSITORY   TAG       IMAGE ID       CREATED        SIZE
nodeapp      latest    7ce0d5ce3563   3 hours ago    1.12GB
mongo        latest    9576663f05bb   2 weeks ago    736MB
sakib@The-Silly-Sultan:~/Docker$
```

Create the image:

```
sakib@The-Silly-Sultan:~/Docker$ sudo docker build -t prime-image .
[+] Building 3.3s (10/10) FINISHED
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 151B
 => [internal] load metadata for docker.io/library/ubuntu:latest
 => [auth] library/ubuntu:pull token for registry-1.docker.io
 => [1/4] FROM docker.io/library/ubuntu@sha256:aabed3296a3d45cede1dc866a24476c4d7e093aa806263c27ddaadbdce3c1054
 => [internal] load build context
 => => transferring context: 179B
 => CACHED [2/4] RUN apt-get update
 => CACHED [3/4] WORKDIR /prime
 => CACHED [4/4] COPY . .
 => exporting to image
 => => exporting layers
 => => writing image sha256:29168fb2629ac99b353ee846f4b3b0c9b8e9e44b9eb310300a6f7dc80a3bd0bb
 => => naming to docker.io/library/prime-image
sakib@The-Silly-Sultan:~/Docker$
```

Check the images again:

```
sakib@The-Silly-Sultan:~/Docker$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED          SIZE
prime-image   latest    29168fb2629a   16 minutes ago   122MB
nodeapp       latest    7ce0d5ce3563   3 hours ago      1.12GB
mongo         latest    9576663f05bb   2 weeks ago      736MB
sakib@The-Silly-Sultan:~/Docker$
```

Step 3: Creating a container from the prime-image

1. sudo docker run -it - -name prime-app prime-image bash
2. sudo docker ps –all → to check the container

Run the container:

```
sakib@The-Silly-Sultan:~/Docker$ sudo docker run -it --name prime-app prime-image bash
Enter Any Number:
```

Prime app Working:

```
sakib@The-Silly-Sultan:~/Docker$ sudo docker start prime-app
prime-app
sakib@The-Silly-Sultan:~/Docker$ sudo docker attach prime-app
5
Prime
sakib@The-Silly-Sultan:~/Docker$ sudo docker start prime-app
prime-app
sakib@The-Silly-Sultan:~/Docker$ sudo docker attach prime-app
10
Not Prime
sakib@The-Silly-Sultan:~/Docker$
```

Container Has been created:

```
sakib@The-Silly-Sultan:~/Docker$ sudo docker ps --all
CONTAINER ID   IMAGE         COMMAND                  CREATED             STATUS                          PORTS     NAMES
7582b4e1f4db   prime-image   "./prime.sh bash"        6 minutes ago       Exited (0) About a minute ago             prime-app
2ada3e389b01   nodeapp       "docker-entrypoint.s…"   About an hour ago   Exited (137) 55 minutes ago               app
7e6590e70046   mongo         "docker-entrypoint.s…"   3 hours ago         Exited (0) 54 minutes ago                 mongodb
sakib@The-Silly-Sultan:~/Docker$
```

Thanks

End of the Assignment.