

ASSIGNMENT 9

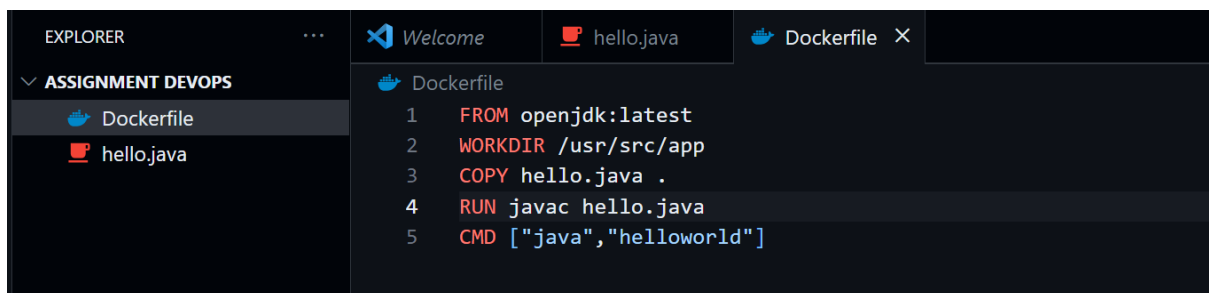
IT_41_Himanshu Shukla

Build a Docker image and push it to Docker Hub. Pull it on another system. Create and run a new container from an image.

Step1: create java file and dockerfile and keep them in same folder

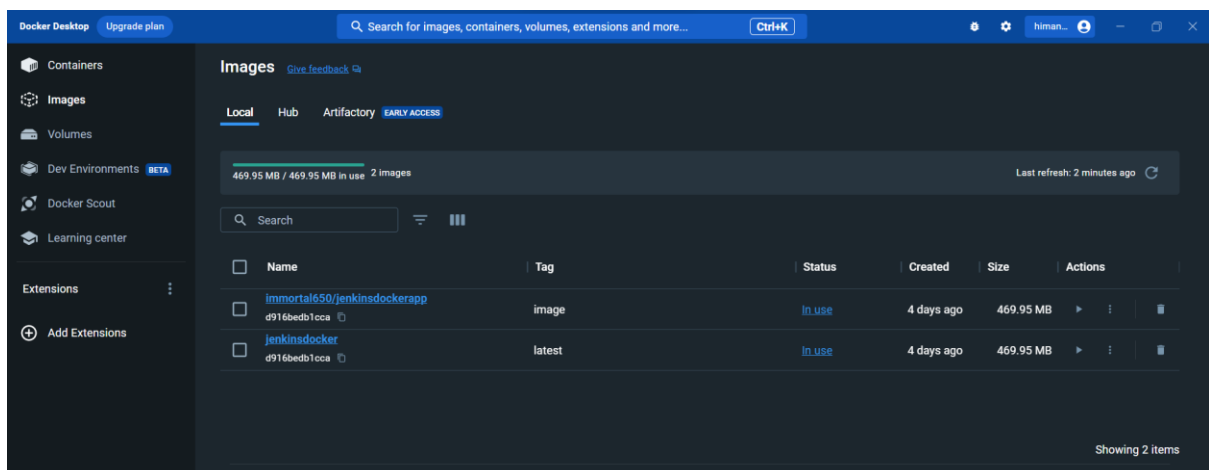


```
1 class helloworld {  
    Run | Debug  
2     public static void main(String args[]) {  
3         System.out.println("Hello world");  
4     }  
5 }
```



```
1 FROM openjdk:latest  
2 WORKDIR /usr/src/app  
3 COPY hello.java .  
4 RUN javac hello.java  
5 CMD ["java","helloworld"]
```

Step 2 :Open the docker desktop and logged in with your account and remember the user n



Step 3:Open the cmd where your Dockerfile and hello.java files are located and build it

```
C:\Windows\System32\cmd.e
Microsoft Windows [Version 10.0.22621.2715]
(c) Microsoft Corporation. All rights reserved.

E:\Blockchain\Assignment devops>docker build -t himanshuhs02/java1-docker .
[+] Building 8.3s (10/10) FINISHED
=> [internal] load .dockerignore                                docker:default 0.1s
=> => transferring context: 28                                  0.0s
=> [internal] load build definition from Dockerfile             0.4s
=> => transferring dockerfile: 146B                             0.4s
=> [internal] load metadata for docker.io/library/openjdk:latest 5.6s
=> [auth] library/openjdk:pull token for registry-1.docker.io  0.0s
=> CACHED [1/4] FROM docker.io/library/openjdk:latest@sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc3494 0.0s
=> [internal] load build context                                0.1s
=> => transferring context: 155B                                 0.0s
=> [2/4] WORKDIR /usr/src/app                                  0.1s
=> [3/4] COPY hello.java .                                     0.0s
=> [4/4] RUN javac hello.java                                   2.0s
=> exporting to image                                           0.1s
=> => exporting layers                                           0.1s
=> => writing image sha256:73ecfc8387a621768f28b3a6258a3cadd7f8163cf889f2757efd4940efa9672 0.0s
=> => naming to docker.io/himanshuhs02/java1-docker           0.0s
```

Step 4:Login to docker

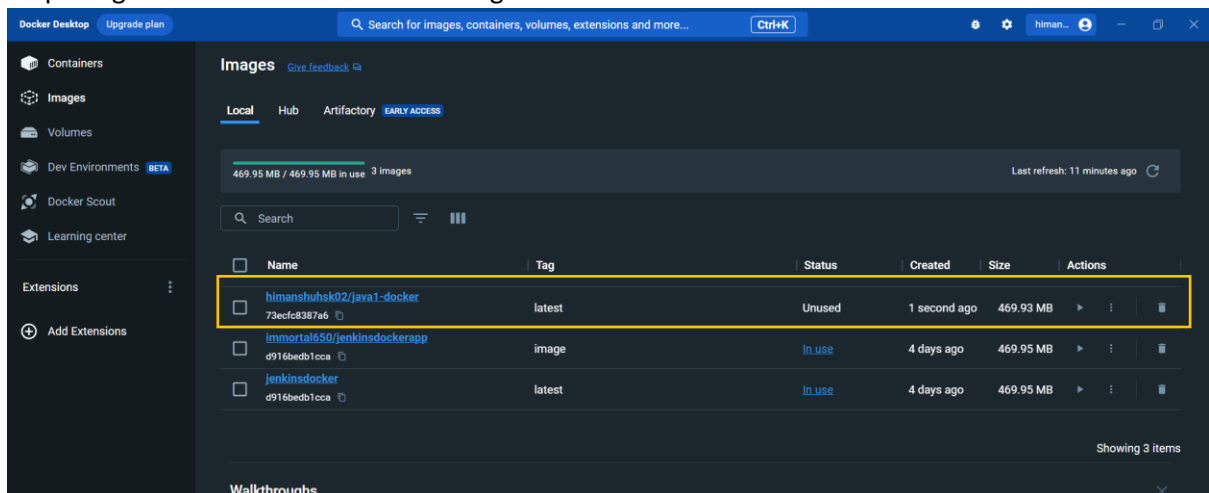
```
E:\Blockchain\Assignment devops>docker login
Authenticating with existing credentials...
Login Succeeded

E:\Blockchain\Assignment devops>
```

Step 5:push to docker hub

```
E:\Blockchain\Assignment devops>docker push himanshuhs02/java1-docker
Using default tag: latest
The push refers to repository [docker.io/himanshuhs02/java1-docker]
db4844bbbea9: Pushed
839d9376ebcf: Pushed
58382286883c: Pushed
56285d9a7760: Layer already exists
077bfff59ce57: Layer already exists
9cd9df9ffc97: Layer already exists
latest: digest: sha256:46b34c3595e09c0cafb2e783ac7b62666108d0d8b791f95b84d036cab1a4c993 size: 1575
```

Step 6:login to docker and check the image



Step 7:run the image which is now pushed

