ASSIGNMENT – 4

Assignment Date	28 October 2022
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Maximum Marks	2 Mark

Question-1

Pull an image from Dockers hub and run it in Dockers playground.

SOLUTION:

STEP: 1

Login to Dockers hub and get an image

STEP: 2

- **Open Dockers playground**
- **Login with Dockers**

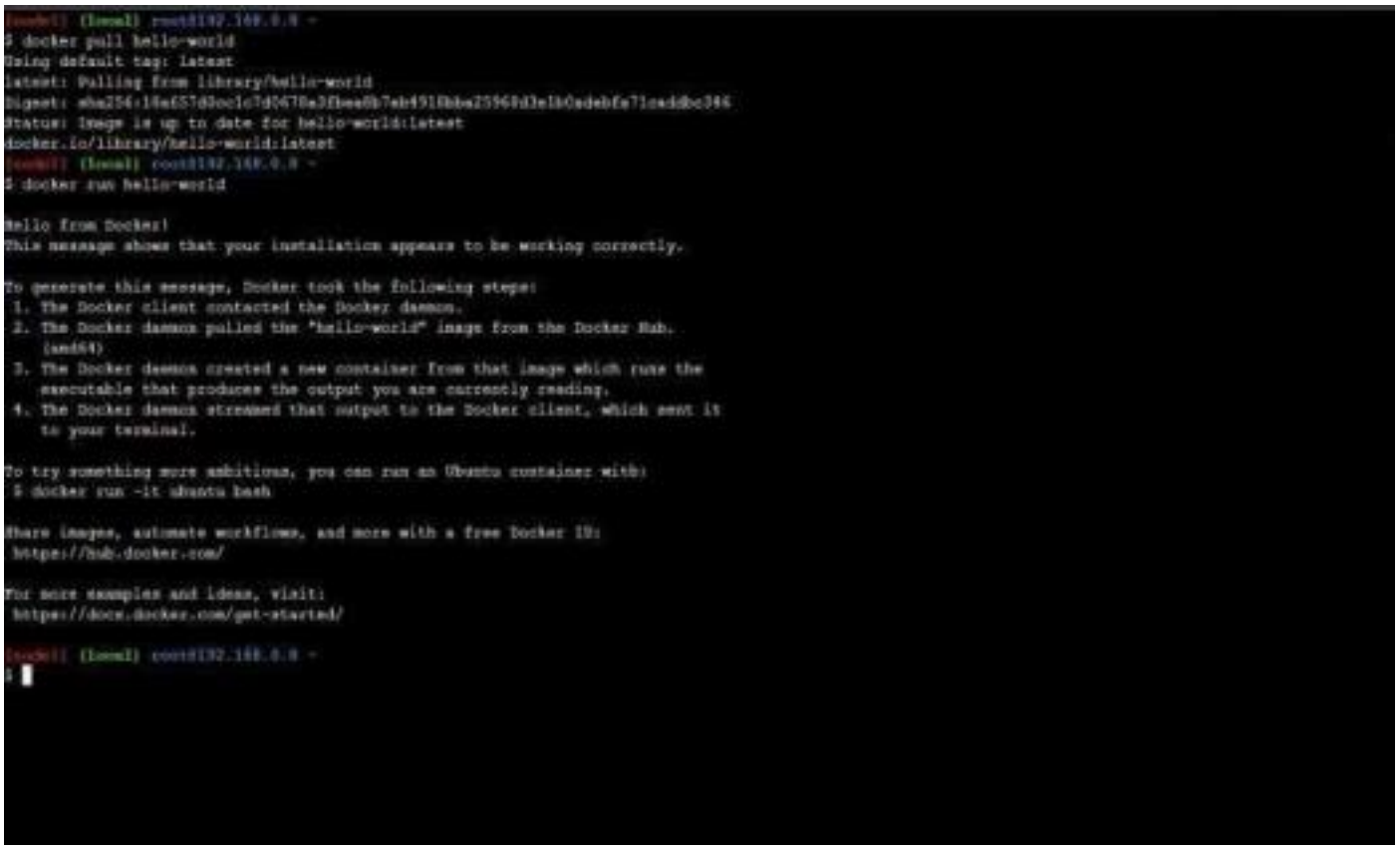
- **Create new instance**

STEP: 3

In the command prompt run the following:

$ **docker pull hello-world**

$ **docker run hello-world**



QUESTION 2:

Create a Dockers file and deploy it in Dockers desktop application SOLUTION:

STEP: 1

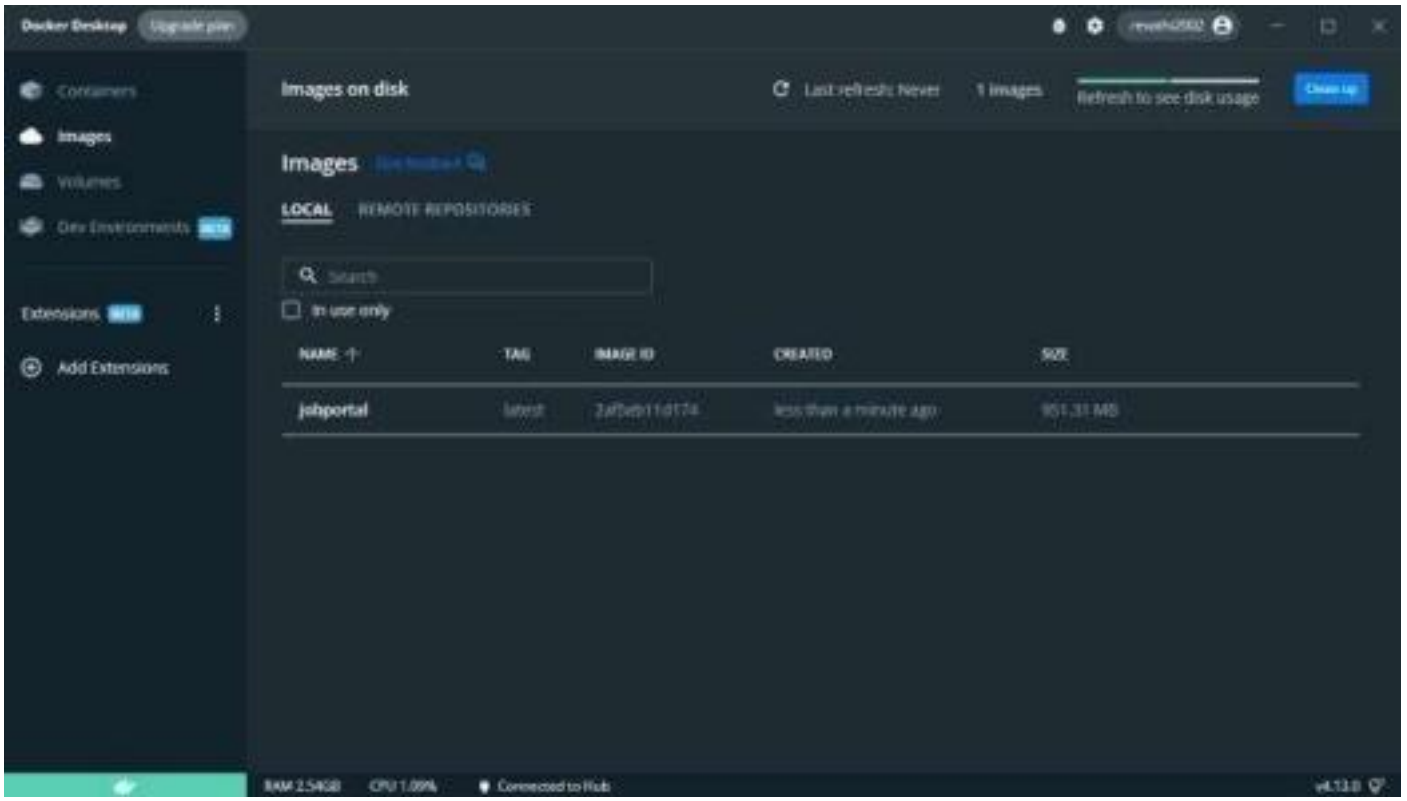
- **Create a flask application**
- **Create a Dockerfile in the same folder**

STEP: 2

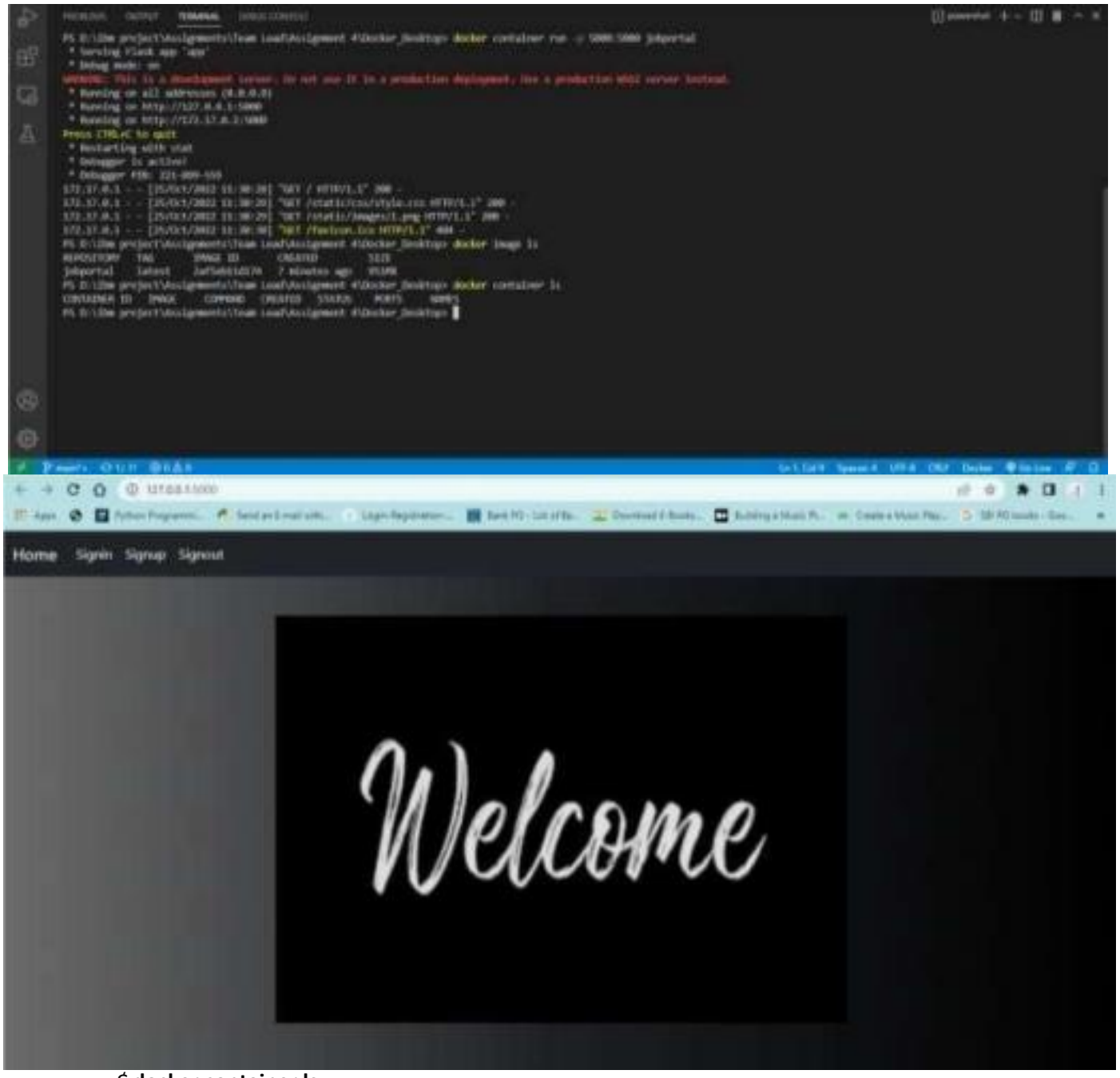
Run the following commands to deploy it in docker desktop

$ **docker build –t jobportal**

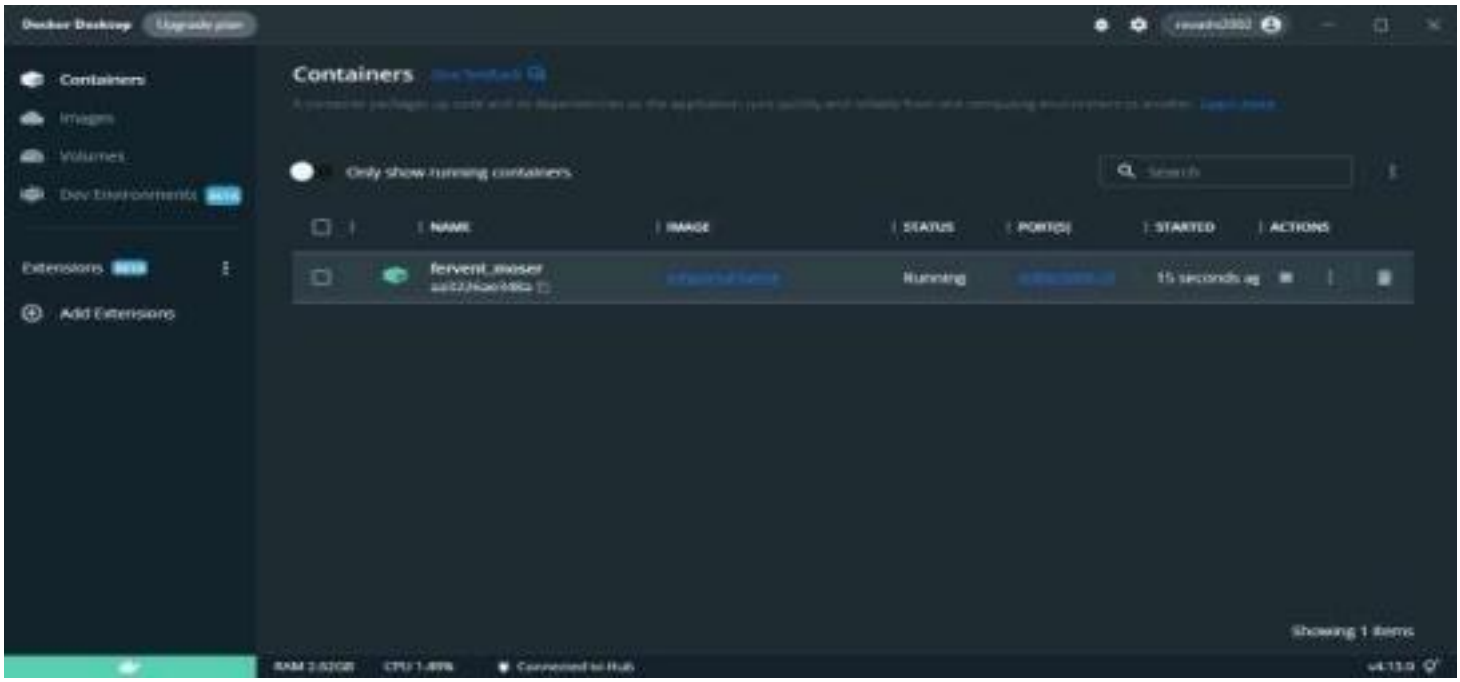
$ **docker image ls**



$ **docker container run –p 5000:5000 jobportal**

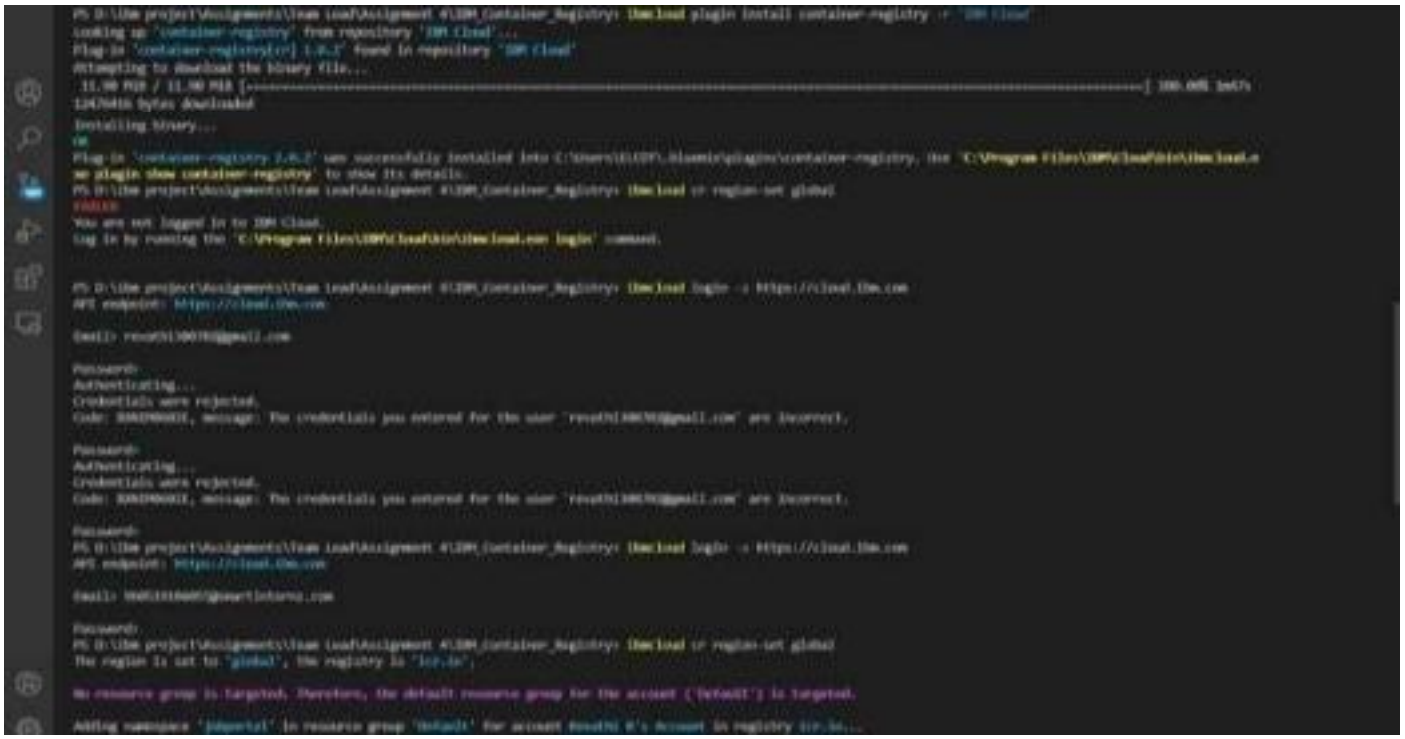


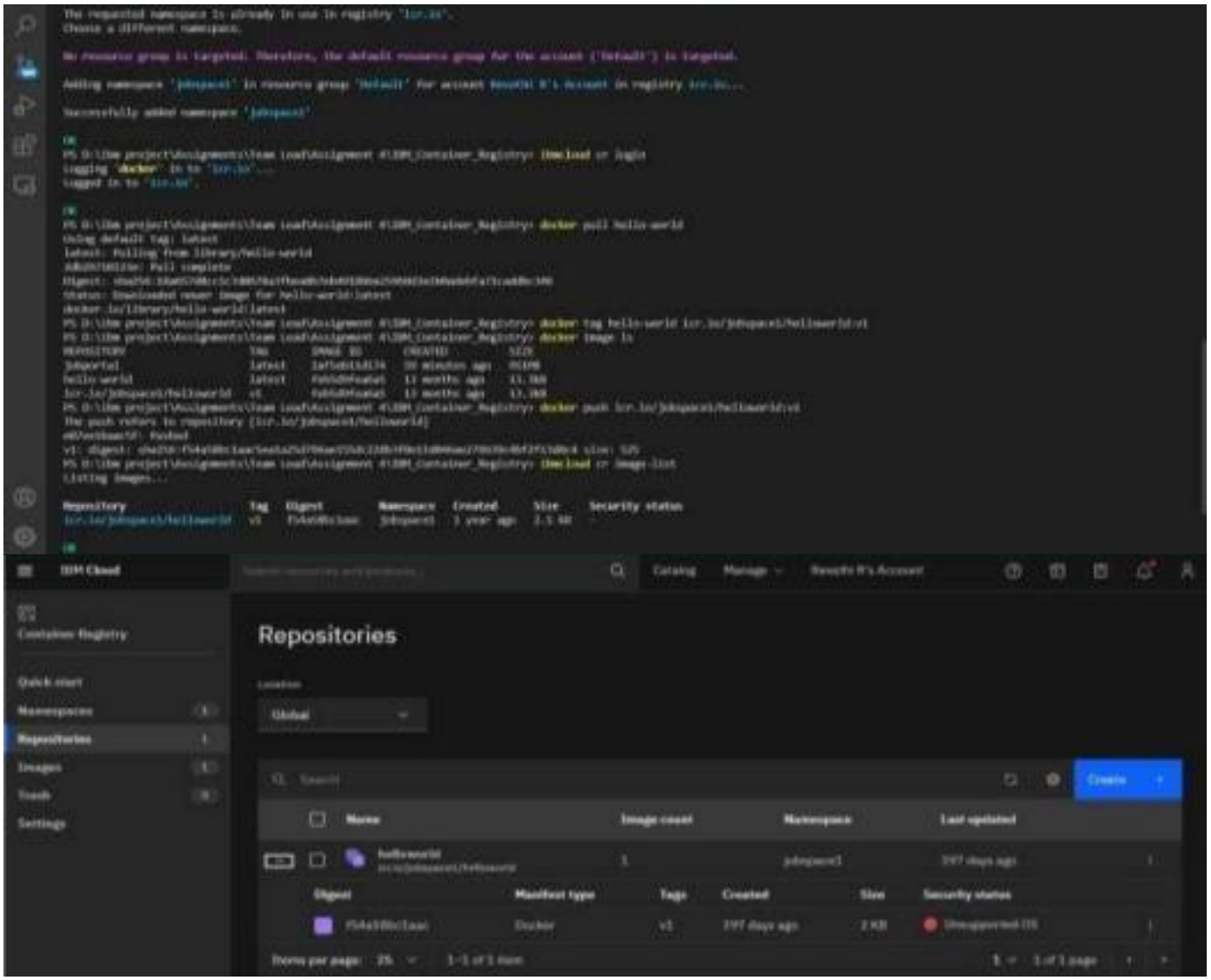
$ **docker container ls**



QUESTION 3:

Create an IBM container registry and deploy hello-world-app or job-portal-app SOLUTION: QUESTION 4:




The requested namespace is already in use in registry 'icr.io'.
Choose a different namespace.
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.
Adding namespace 'jdnspace1' in resource group 'Default' for account Revathi R's Account in registry icr.io...
Successfully added namespace 'jdnspace1'
PS D:\ibm project\Assignments\Team Leaf\Assignment #1\IBM_Container_Registry> ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.
PS D:\ibm project\Assignments\Team Leaf\Assignment #1\IBM_Container_Registry> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest:
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
PS D:\ibm project\Assignments\Team Leaf\Assignment #1\IBM_Container_Registry> docker tag hello-world icr.io/jdnspace1/helloworld:v1
PS D:\ibm project\Assignments\Team Leaf\Assignment #1\IBM_Container_Registry> docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
jdnportal latest 1af5d61da13e 39 minutes ago 851MB
hello-world latest f54a58bc1aac 13 months ago 13.3kB
icr.io/jdnspace1/helloworld v1 f54a58bc1aac 13 months ago 13.3kB
PS D:\ibm project\Assignments\Team Leaf\Assignment #1\IBM_Container_Registry> docker push icr.io/jdnspace1/helloworld:v1
The push refers to repository [icr.io/jdnspace1/helloworld]
e07ee1baac5f: Pushed
v1: digest: sha256:f54a58bc1aac5ea1a2d1099ec7f0db1ef3ff0e1e3099ae2f0c9e95f1354bdc4 size: 525
PS D:\ibm project\Assignments\Team Leaf\Assignment #1\IBM_Container_Registry> ibmcloud cr image-list
Listing images...
Repository Tag Digest Namespace Created Size Security status
icr.io/jdnspace1/helloworld v1 f54a58bc1aac jdnspace1 1 year ago 2.5 kB
IBM Cloud
Catalog
Manage
Revathi R's Account
Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Repositories
Location
Global
Search
Create
Name
Image count
Namespace
Last updated
helloworld
icr.io/jdnspace1/helloworld
1
jdnspace1
197 days ago
Digest
Manifest type
Tags
Created
Size
Security status
f54a58bc1aac
Docker
v1
197 days ago
2 KB
Unsupported OS
Items per page: 25
1–1 of 1 item
1 of 1 page