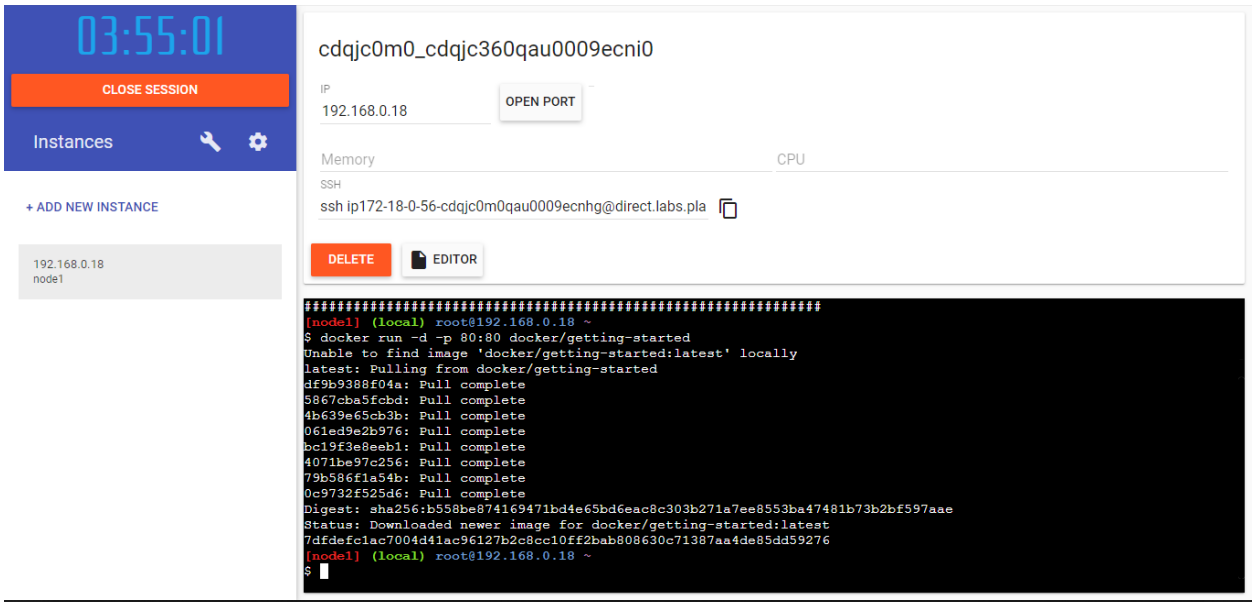
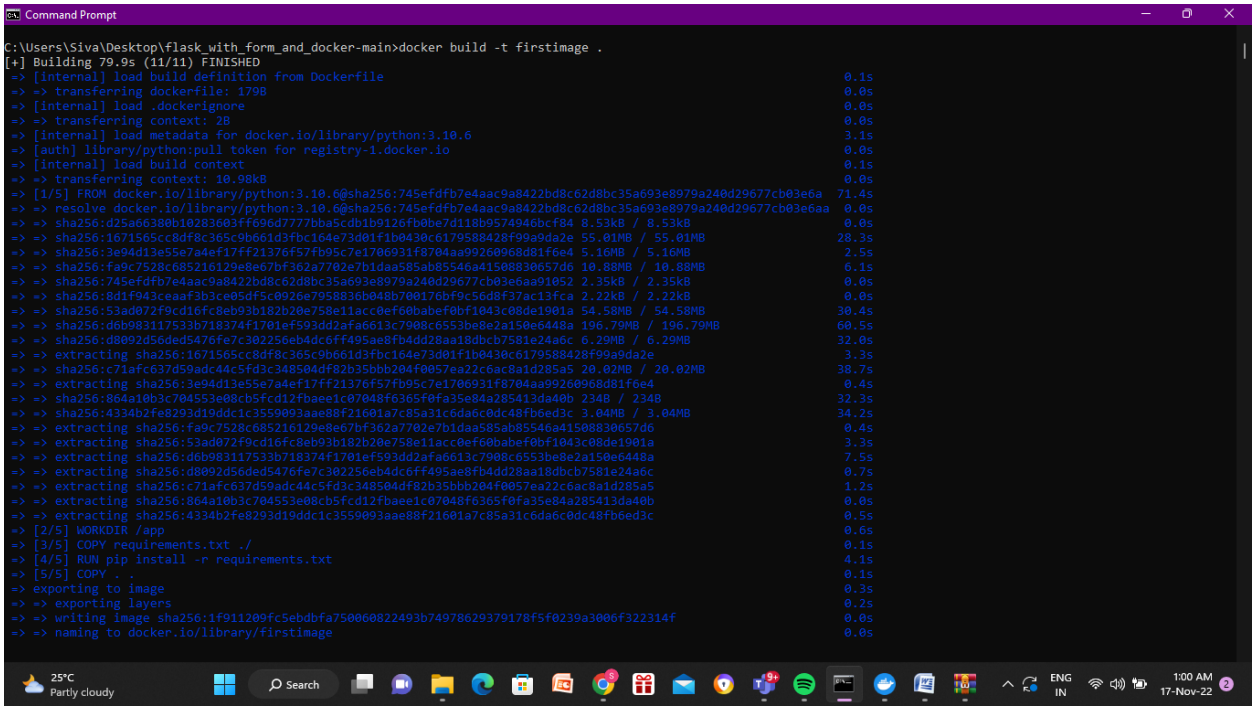
Assignment - 4
Kubernetes/Docker

Assignment Date	9 September 2022
Student Name	Jeyadesh J
Student Roll Number	111519205016
Maximum Marks	2 Marks

Question 1:

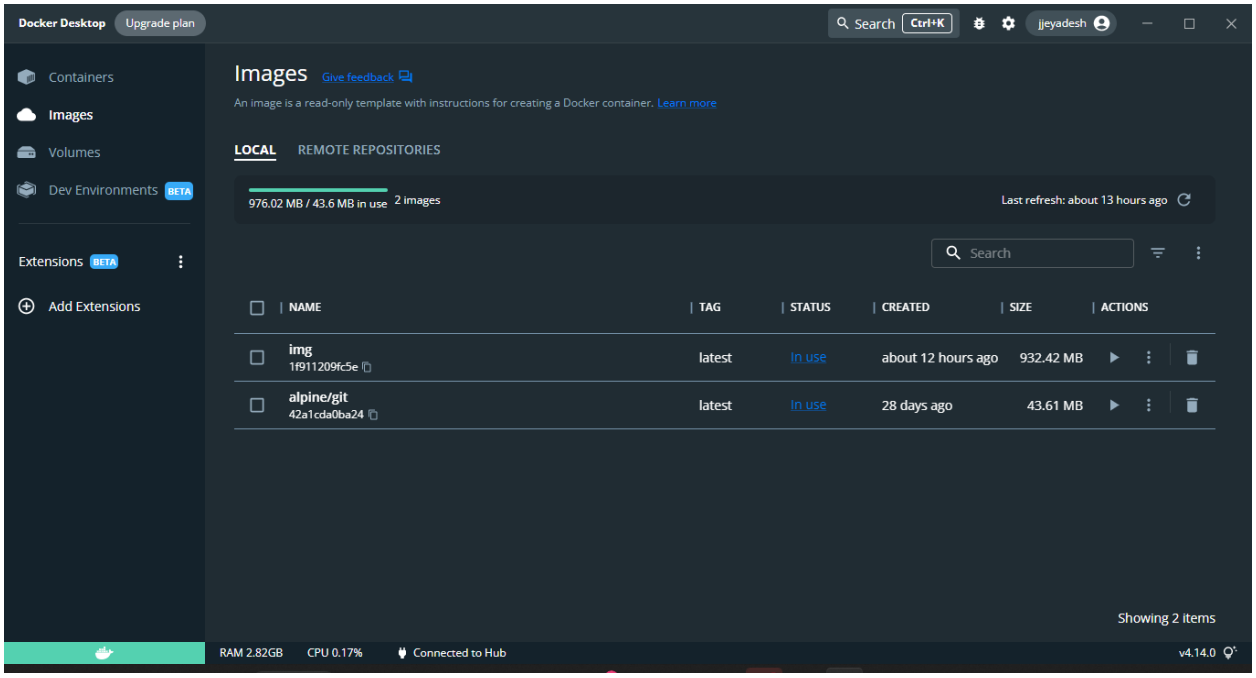
Pull an Image from docker hub and run it in docker playground.

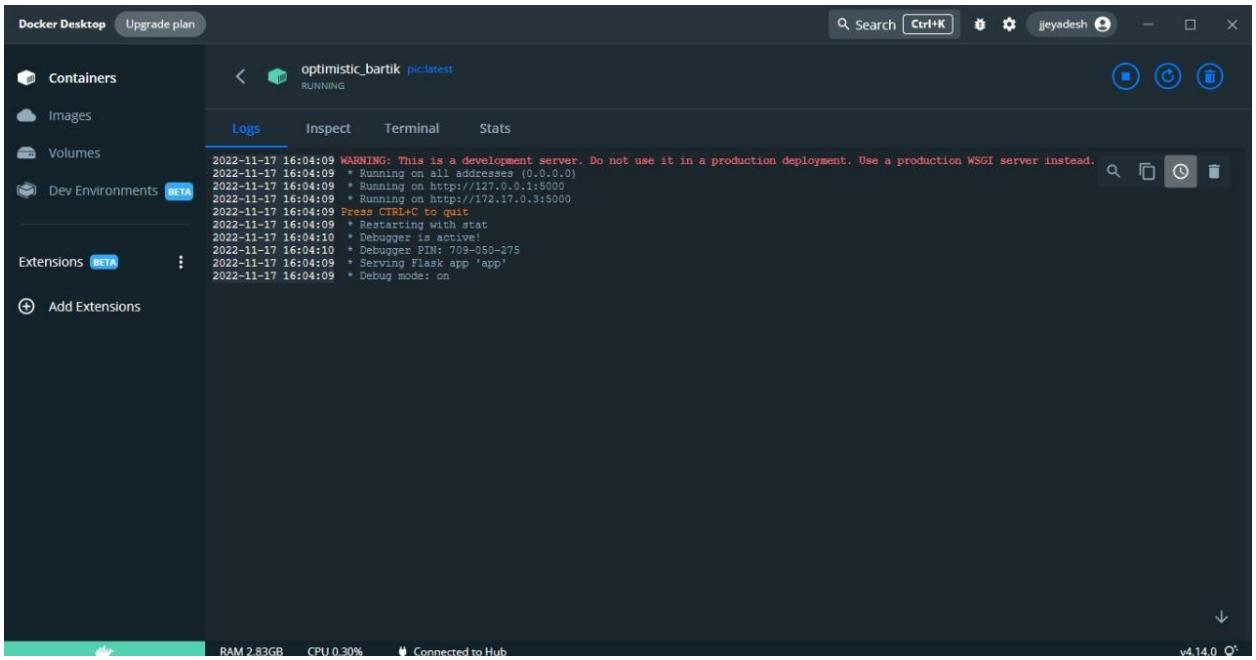


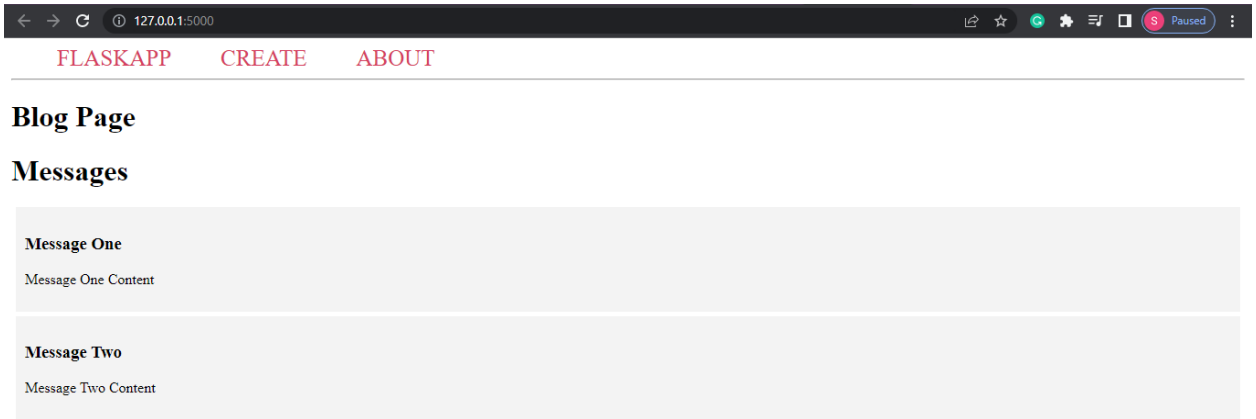


Question 2:

Create a docker file for the job portal application and deploy it in Docker desktop application.

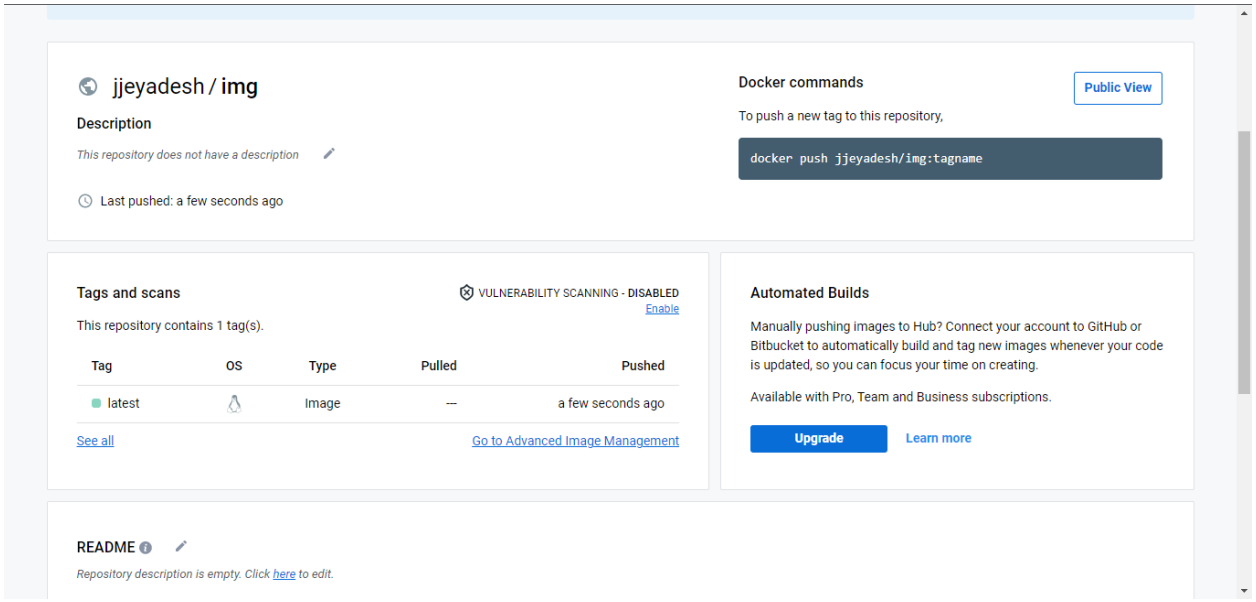


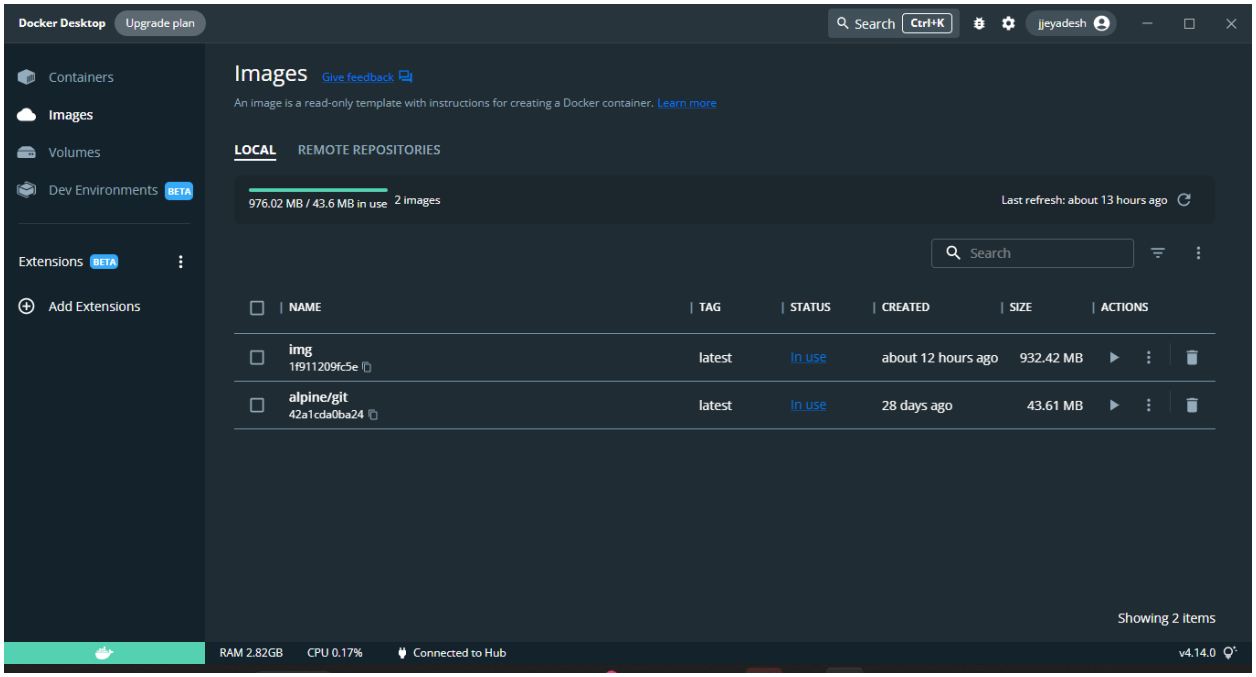

Docker Desktop
Upgrade plan
Search Ctrl+K
jjeyadesh
Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
optimistic_bartik pic:latest
RUNNING
Logs
Inspect
Terminal
Stats
2022-11-17 16:04:09 WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
2022-11-17 16:04:09 * Running on all addresses (0.0.0.0)
2022-11-17 16:04:09 * Running on http://127.0.0.1:5000
2022-11-17 16:04:09 * Running on http://172.17.0.3:5000
2022-11-17 16:04:09 Press CTRL+C to quit
2022-11-17 16:04:09 * Restarting with stat
2022-11-17 16:04:10 * Debugger is active!
2022-11-17 16:04:10 * Debugger PIN: 709-050-275
2022-11-17 16:04:09 * Serving Flask app 'app'
2022-11-17 16:04:09 * Debug mode: on
RAM 2.83GB
CPU 0.30%
Connected to Hub
v4.14.0

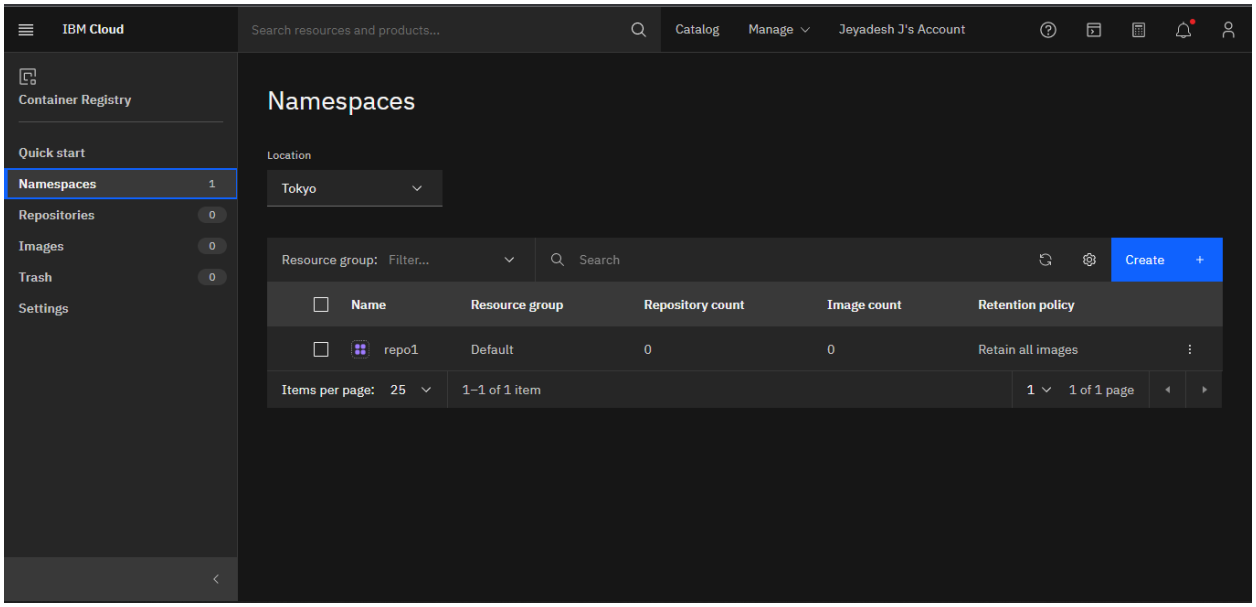

127.0.0.1:5000
Paused
FLASKAPP
CREATE
ABOUT
Blog Page
Messages
Message One
Message One Content
Message Two
Message Two Content

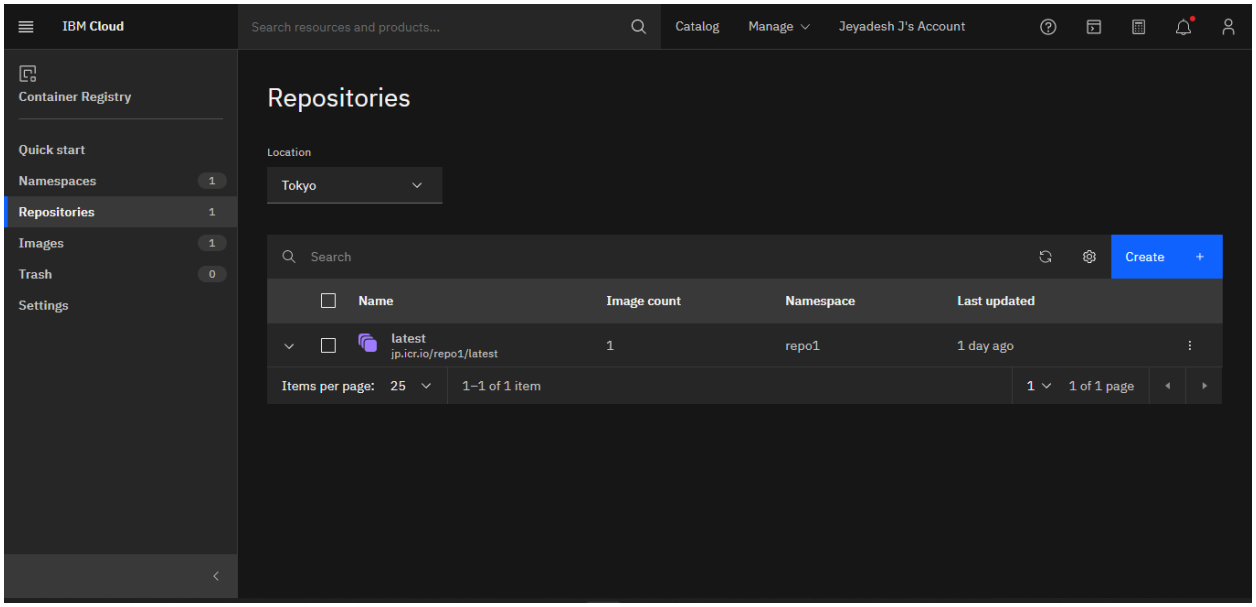
Question 3:

Create a IBM container registry and deploy a hello world app or job portal app.






IBM Cloud
Search resources and products...
Catalog
Manage
Jeyadesh J's Account
Container Registry
Quick start
Namespaces 1
Repositories 0
Images 0
Trash 0
Settings
Namespaces
Location
Tokyo
Resource group: Filter...
Search
Create
Name
Resource group
Repository count
Image count
Retention policy
repo1
Default
0
0
Retain all images
Items per page: 25
1–1 of 1 item
1
1 of 1 page


IBM Cloud
Search resources and products...
Catalog
Manage
Jeyadesh J's Account
Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Repositories
Location
Tokyo
Search
Create
Name
Image count
Namespace
Last updated
latest
jp.icr.io/repo1/latest
1
repo1
1 day ago
Items per page: 25
1–1 of 1 item
1
1 of 1 page

Question 4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in nodeport.