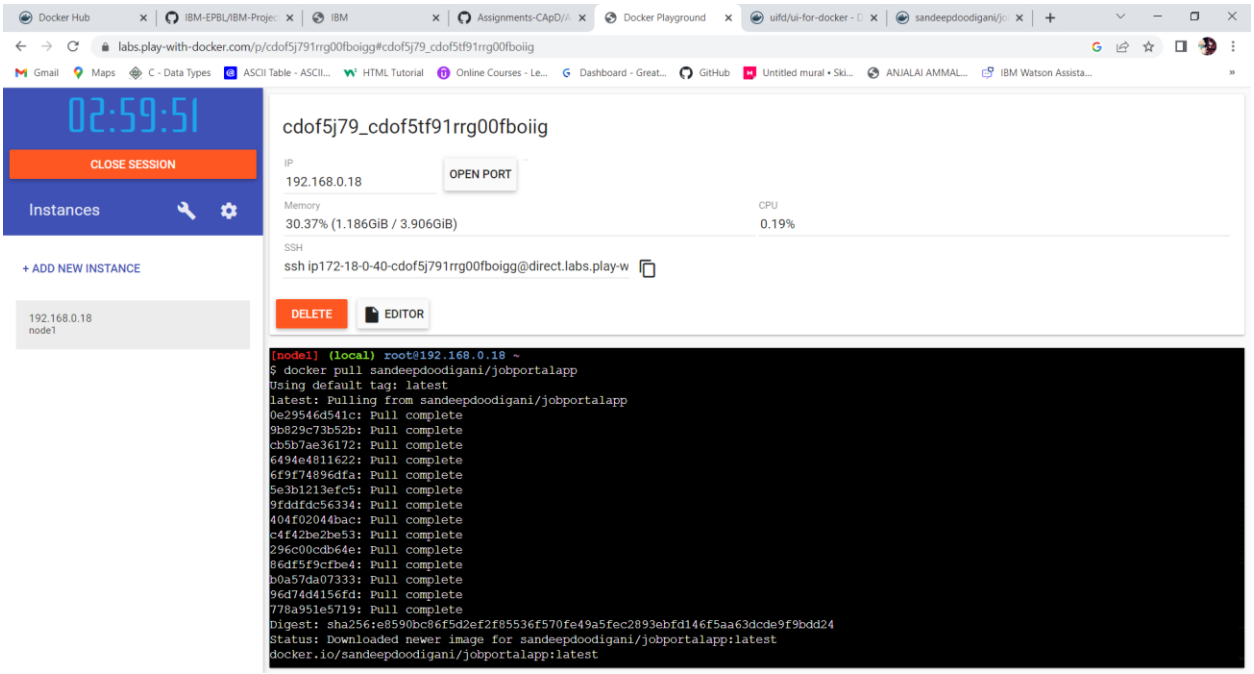
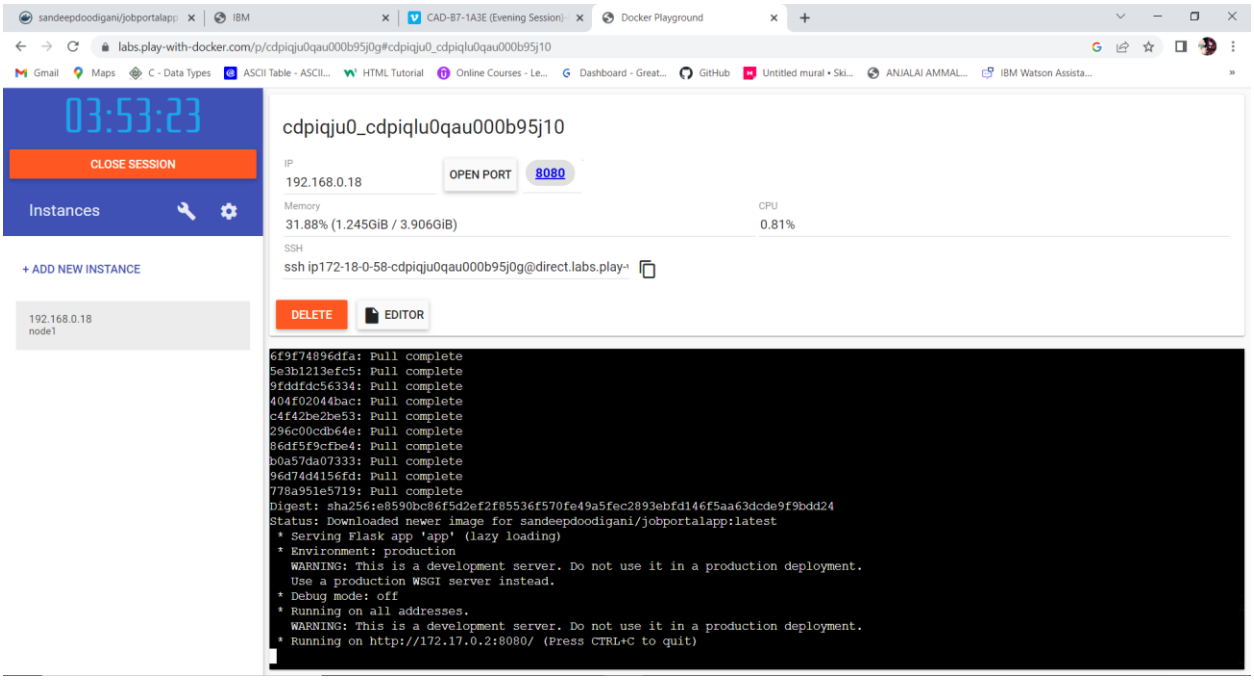
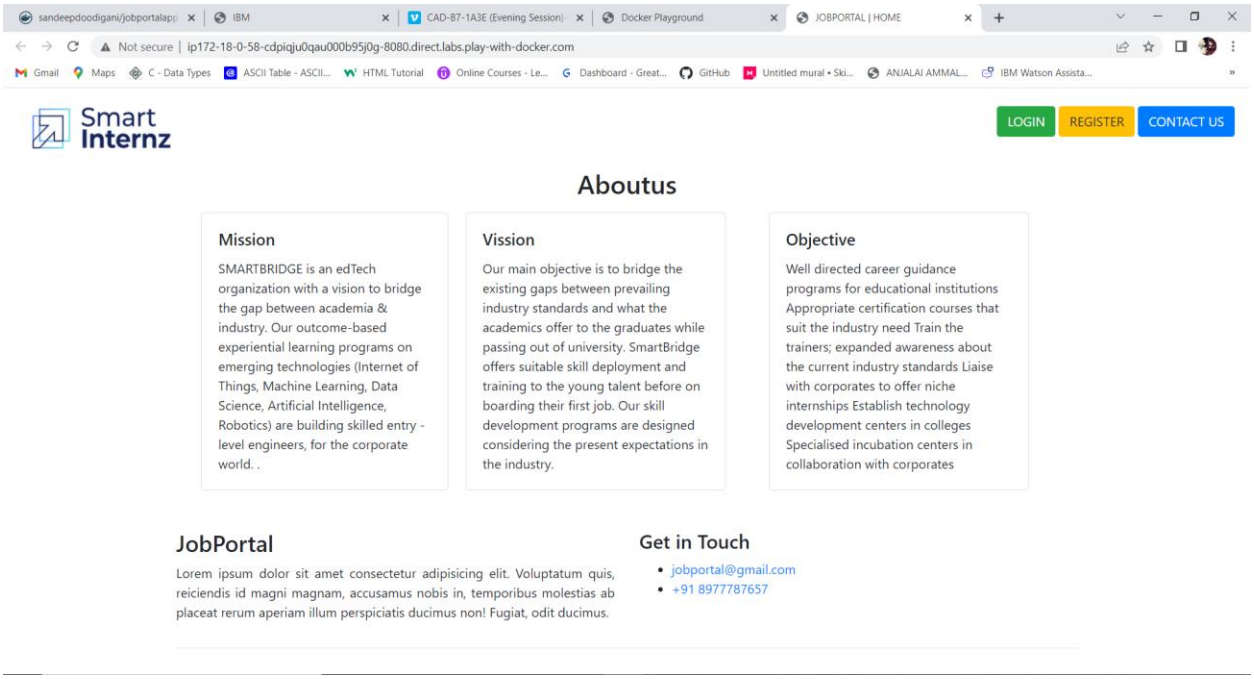
ASSIGNMENT-4

Assignment Date	28 October 2022
Student Name	Ms.Nithyashree R
Student Roll Number	820419104046
Maximum Marks	2 Marks

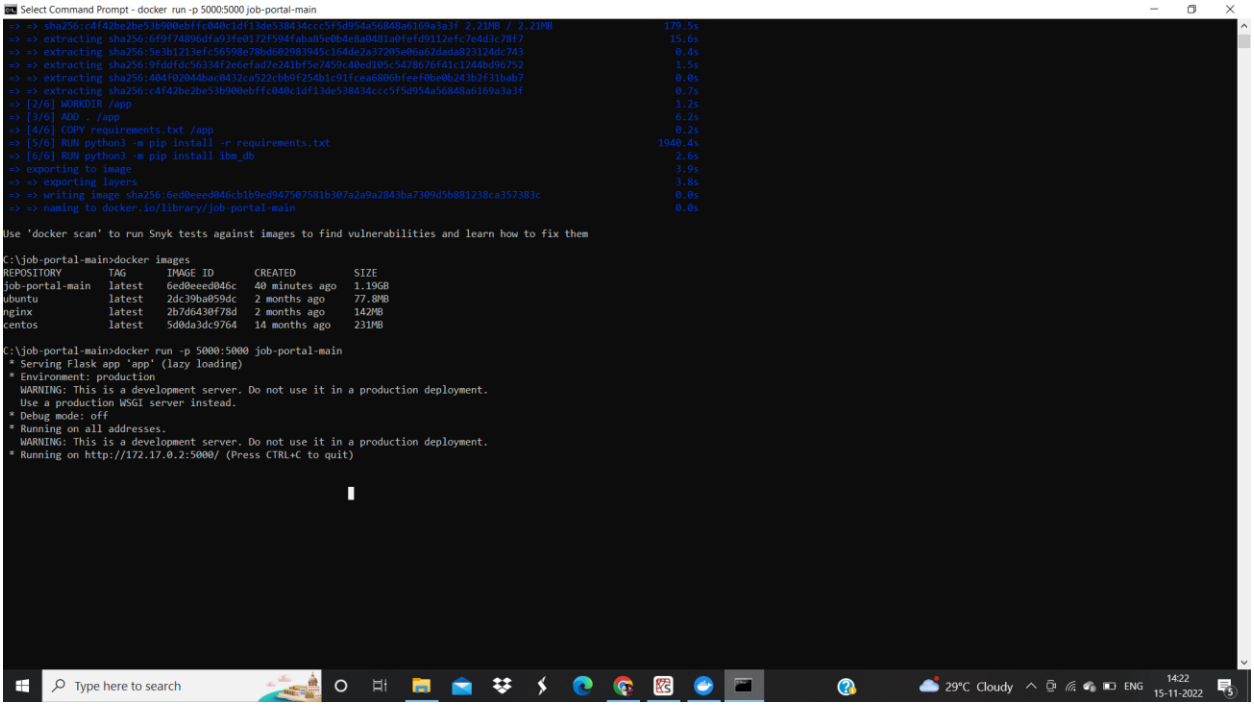
1. Pull an Image from docker hub and run it in docker playground.

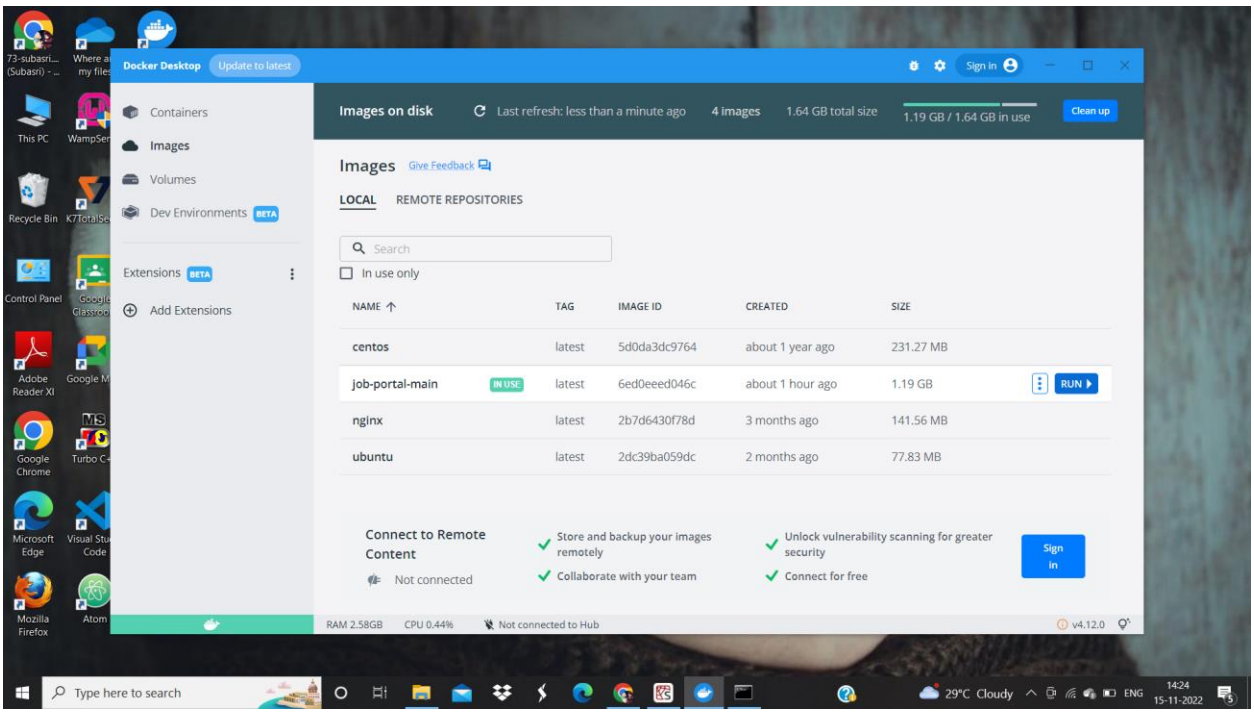




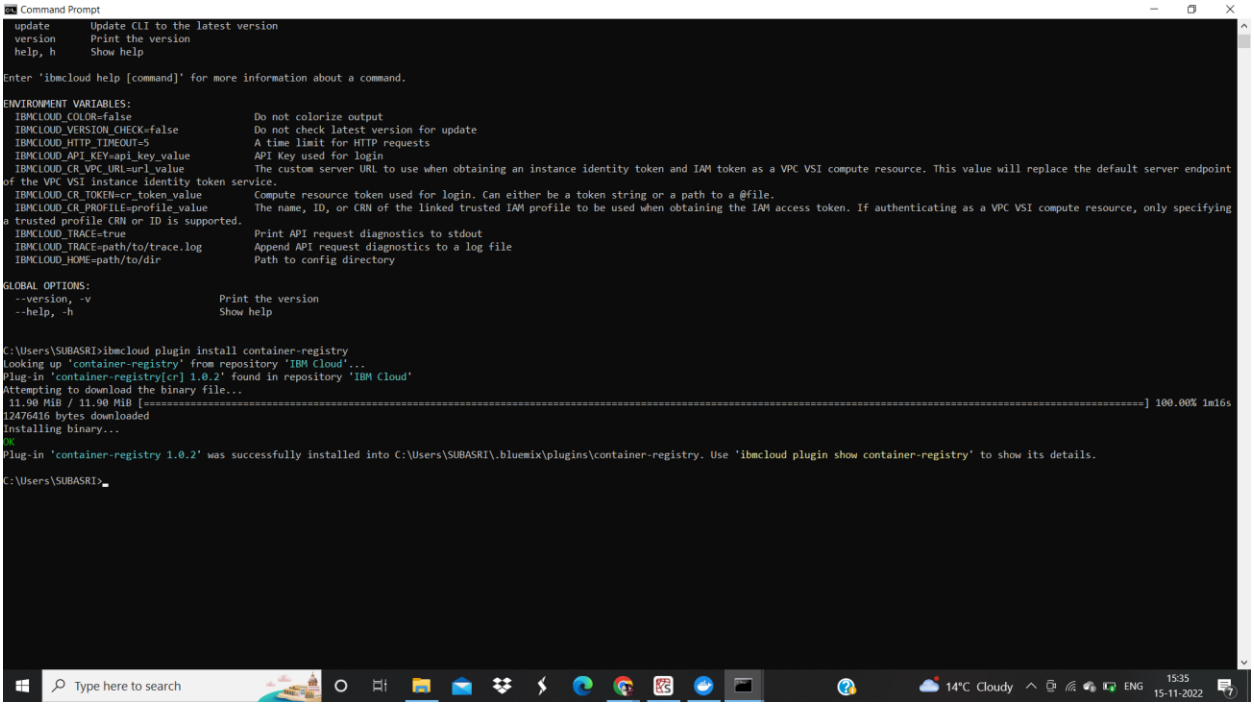


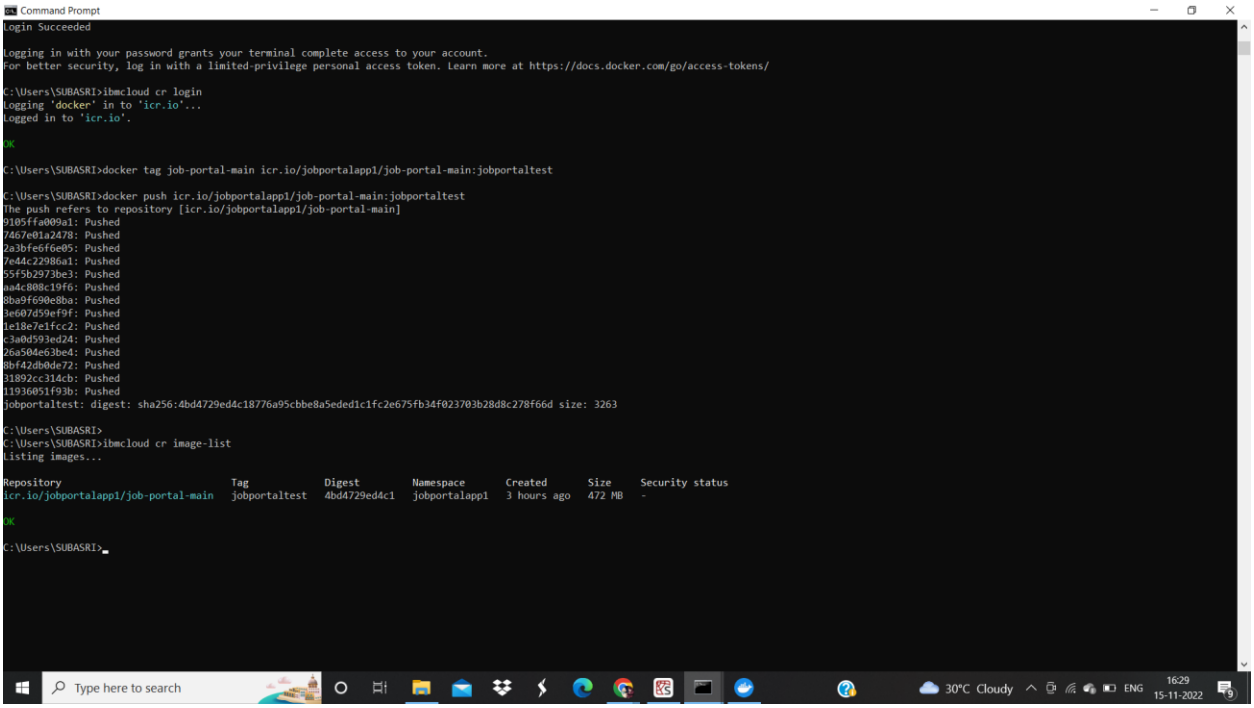
2.Create a docker file for the job portal application and deploy it in Docker desktop application.

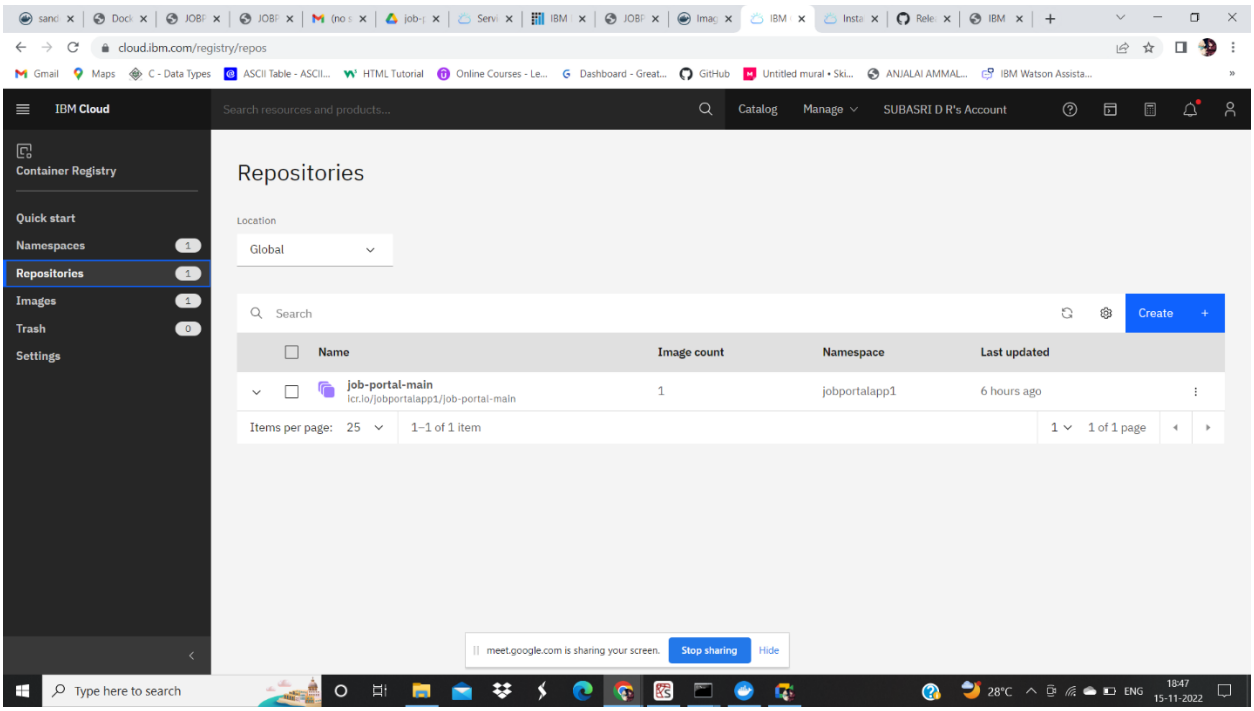




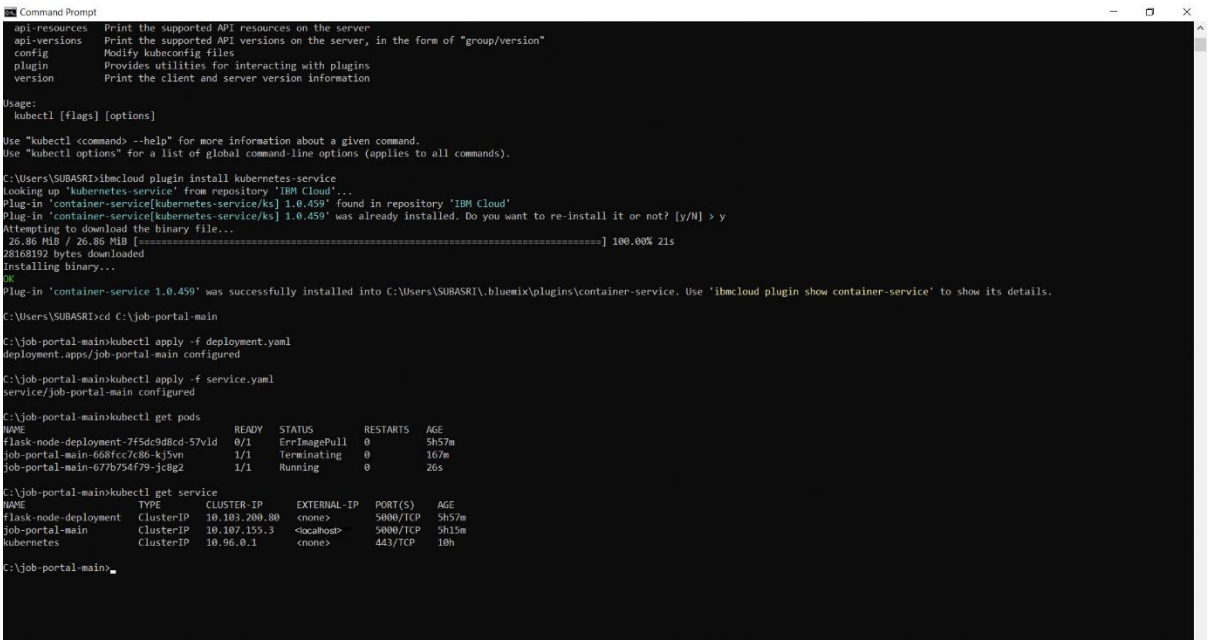
3.Create a IBM container registry and deploy hello world app or job portal app.

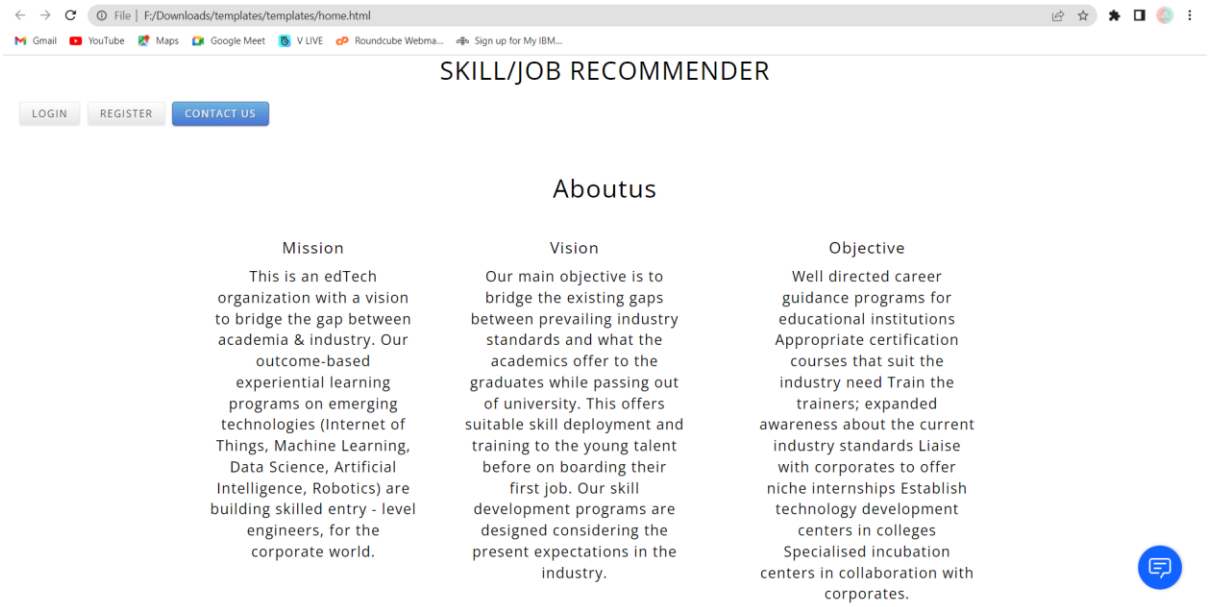

Command Prompt
update Update CLI to the latest version
version Print the version
help, h Show help
Enter 'ibmcloud help [command]' for more information about a command.
ENVIRONMENT VARIABLES:
IBMCLOUD_COLOR=false Do not colorize output
IBMCLOUD_VERSION_CHECK=false Do not check latest version for update
IBMCLOUD_HTTP_TIMEOUT=5 A time limit for HTTP requests
IBMCLOUD_API_KEY=api_key_value API Key used for login
IBMCLOUD_CR_VPC_URL=url_value The custom server URL to use when obtaining an instance identity token and IAM token as a VPC VSI compute resource. This value will replace the default server endpoint
of the VPC VSI instance identity token service.
IBMCLOUD_CR_TOKEN=cr_token_value Compute resource token used for login. Can either be a token string or a path to a @file.
IBMCLOUD_CR_PROFILE=profile_value The name, ID, or CRN of the linked trusted IAM profile to be used when obtaining the IAM access token. If authenticating as a VPC VSI compute resource, only specifying
a trusted profile CRN or ID is supported.
IBMCLOUD_TRACE=true Print API request diagnostics to stdout
IBMCLOUD_TRACE=path/to/trace.log Append API request diagnostics to a log file
IBMCLOUD_HOME=path/to/dir Path to config directory
GLOBAL OPTIONS:
--version, -v Print the version
--help, -h Show help
C:\Users\SUBASRI>ibmcloud plugin install container-registry
Looking up 'container-registry' from repository 'IBM Cloud'...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Attempting to download the binary file...
11.90 MiB / 11.90 MiB [] 100.00% 1m16s
12476416 bytes downloaded
Installing binary...
OK
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\SUBASRI\.bluemix\plugins\container-registry. Use 'ibmcloud plugin show container-registry' to show its details.
C:\Users\SUBASRI>
Type here to search
14°C Cloudy
ENG
15:35
15-11-2022


Command Prompt
Login Succeeded
Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
C:\Users\SUBASRI>ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.
OK
C:\Users\SUBASRI>docker tag job-portal-main icr.io/jobportalapp1/job-portal-main:jobportaltest
C:\Users\SUBASRI>docker push icr.io/jobportalapp1/job-portal-main:jobportaltest
The push refers to repository [icr.io/jobportalapp1/job-portal-main]
9105ffa009a1: Pushed
7467e01a2478: Pushed
2a3bfe6f6e05: Pushed
7e44c22986a1: Pushed
55f5b2973be3: Pushed
aa4c808c19f6: Pushed
8ba9f690e8ba: Pushed
3e607d59ef9f: Pushed
1e18e7e1fcc2: Pushed
c3a0d593ed24: Pushed
26a504e63be4: Pushed
8bf42db0de72: Pushed
31892cc314cb: Pushed
11936051f93b: Pushed
jobportaltest: digest: sha256:4bd4729ed4c18776a95cbbe8a5eded1c1fc2e675fb34f023703b28d8c278f66d size: 3263
C:\Users\SUBASRI>
C:\Users\SUBASRI>ibmcloud cr image-list
Listing images...
Repository Tag Digest Namespace Created Size Security status
icr.io/jobportalapp1/job-portal-main jobportaltest 4bd4729ed4c1 jobportalapp1 3 hours ago 472 MB -
OK
C:\Users\SUBASRI>
Type here to search
30°C Cloudy
ENG
16:29
15-11-2022



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 node port.




File | F:/Downloads/templates/templates/home.html
Gmail
YouTube
Maps
Google Meet
V LIVE
Roundcube Webma...
Sign up for My IBM...
SKILL/JOB RECOMMENDER
LOGIN
REGISTER
CONTACT US
Aboutus
Mission
This is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world.
Vision
Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. This offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.
Objective
Well directed career guidance programs for educational institutions Appropriate certification courses that suit the industry need Train the trainers; expanded awareness about the current industry standards Liaise with corporates to offer niche internships Establish technology development centers in colleges Specialised incubation centers in collaboration with corporates.