

## ASSIGNMENT-4

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Assignment Date	12 November 2022
Team ID	PNF2022IMID03974
Maximum Marks	2 Marks

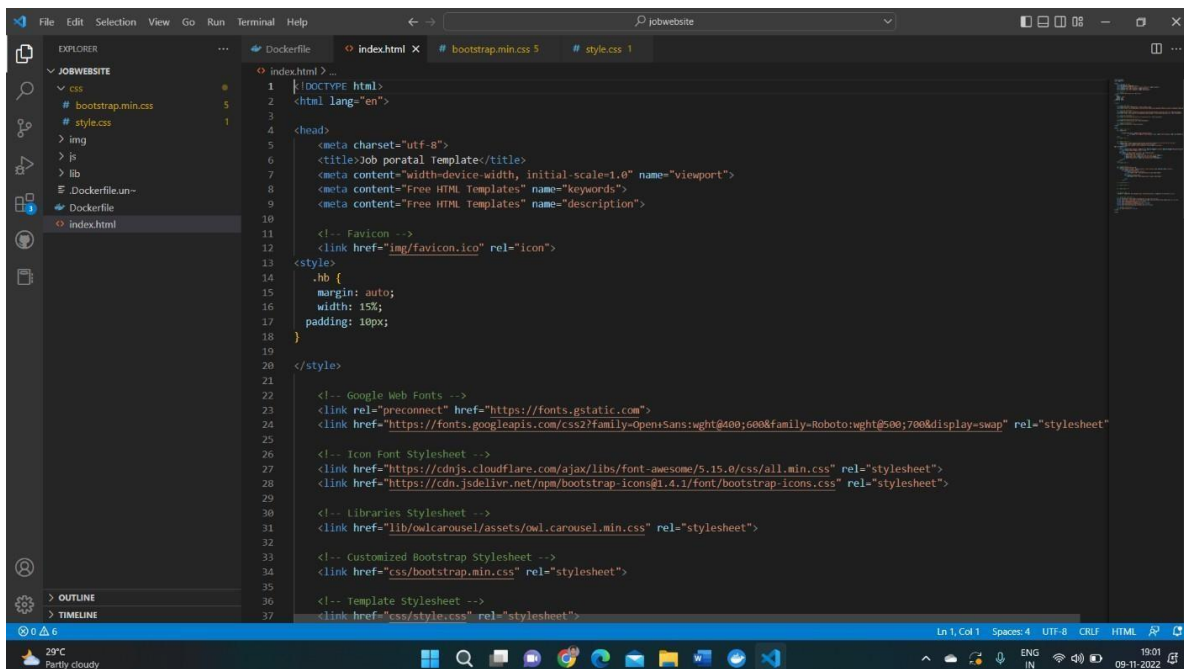
### Question 1:

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

```
C:\Users\Venkata Naveen>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
```

### Question 2:

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



The screenshot shows a code editor with a Dockerfile and index.html. The Dockerfile is in the left pane and the index.html is in the right pane. The index.html is a job portal template with a header, a main content area, and a footer. The Dockerfile is a multi-stage build that uses the latest version of the hello-world image as a base. It copies the index.html and bootstrap.min.css files from the local directory to the container. It also sets the entrypoint to the index.html file.

```
Dockerfile
FROM hello-world:latest
COPY index.html /usr/share/nginx/html/
COPY bootstrap.min.css /usr/share/nginx/html/
EXPOSE 80
ENTRYPOINT ["nginx", "-g", "daemon off;"]
```

```
index.html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Job portal Template</title>
<meta content="width=device-width, initial-scale=1.0" name="viewport">
<meta content="Free HTML Templates" name="keywords">
<meta content="Free HTML Templates" name="description">
<!-- Favicon -->
<link href="img/favicon.ico" rel="icon">
<style>
.hb {
margin: auto;
width: 15%;
padding: 10px;
}
</style>
<!-- Google Web Fonts -->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;600&family=Roboto:wght@500;700&display=swap" rel="stylesheet">
<!-- Icon Font Stylesheet -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.0/css/all.min.css" rel="stylesheet">
<link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" rel="stylesheet">
<!-- Libraries Stylesheet -->
<link href="lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">
<!-- Customized Bootstrap Stylesheet -->
<link href="css/bootstrap.min.css" rel="stylesheet">
<!-- Template Stylesheet -->
<link href="css/style.css" rel="stylesheet">
```

# IBM Naliya Thiran

## Skill and Job Recommender

### Question 3:

Create a IBM container registry and deploy helloworld app or skill/job recommender app.

```
Microsoft Windows [Version 10.0.22621.674]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Venkata Naveen>ibmcloud plugin install container-service
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Attempting to download the binary file...
 26.86 MiB / 26.86 MiB [=====] 100.00% 0s
28168192 bytes downloaded
Installing binary...
K
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\Venkata Naveen\.bluemix\plugins\container-service. Use 'ibmcloud plugin show container-service' to show its details.

C:\Users\Venkata Naveen>ibmcloud plugin install container-service
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' was already installed. Do you want to re-install it or not? [y/N] > y
Attempting to download the binary file...
 26.86 MiB / 26.86 MiB [=====] 100.00% 0s
28168192 bytes downloaded
Installing binary...
K
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\Venkata Naveen\.bluemix\plugins\container-service. Use 'ibmcloud plugin show container-service' to show its details.

C:\Users\Venkata Naveen>ibmcloud plugin install observe-service
Looking up 'observe-service' from repository 'IBM Cloud'...
Plug-in 'observe-service 1.0.82' found in repository 'IBM Cloud'
Attempting to download the binary file...
 13.38 MiB / 13.38 MiB [=====] 100.00% 0s
14024704 bytes downloaded
Installing binary...
K
Plug-in 'observe-service 1.0.82' was successfully installed into C:\Users\Venkata Naveen\.bluemix\plugins\observe-service. Use 'ibmcloud plugin show observe-service' to show its details.

C:\Users\Venkata Naveen>
```

Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or skill/jobrecommender image and also expose the same app to run in nodeport.

