

## ASSIGNMENT-4

Name	Nitesh Kumar
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Team ID	PNT2022TMID0291
Maximum Marks	2 Marks

### Question 1:

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

```
Command Prompt

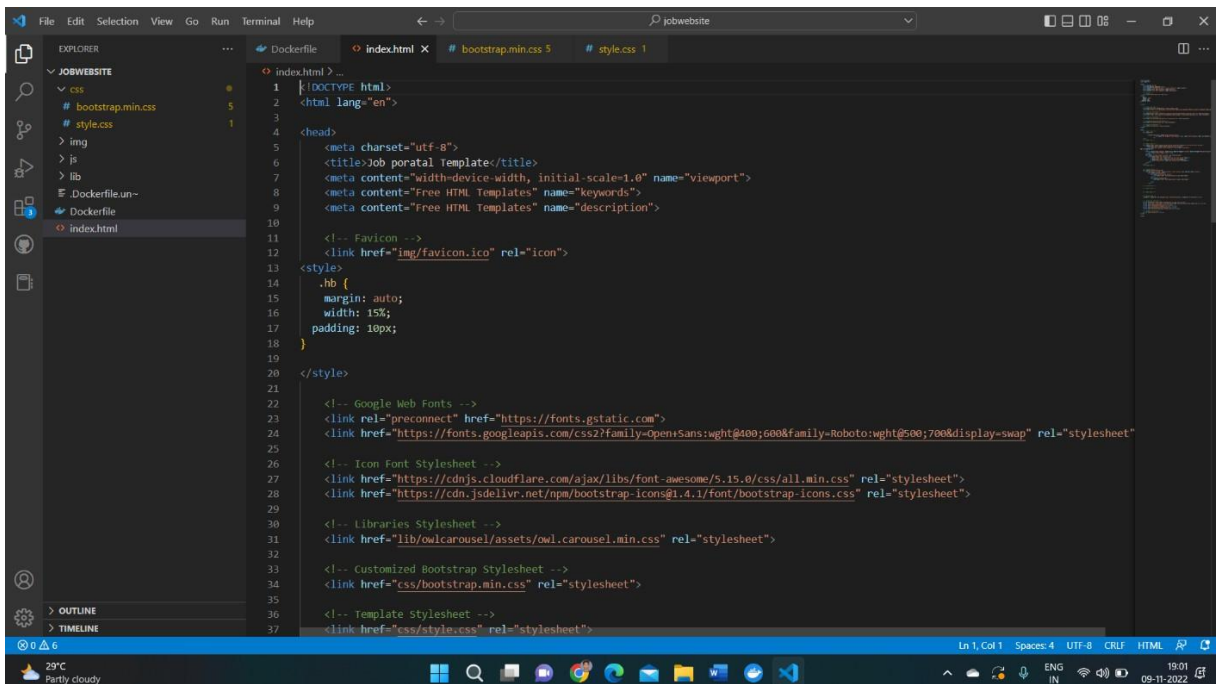
C:\Users\VIJAR RS>docker push vijayrs12213/hello-world
Using default tag: latest
The push refers to repository [docker.io/vijayrs12213/hello-world]
e07ee1baac5f: Mounted from library/hello-world
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525

C:\Users\VIJAR RS>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest

C:\Users\VIJAR RS>
```

### Question 2:

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

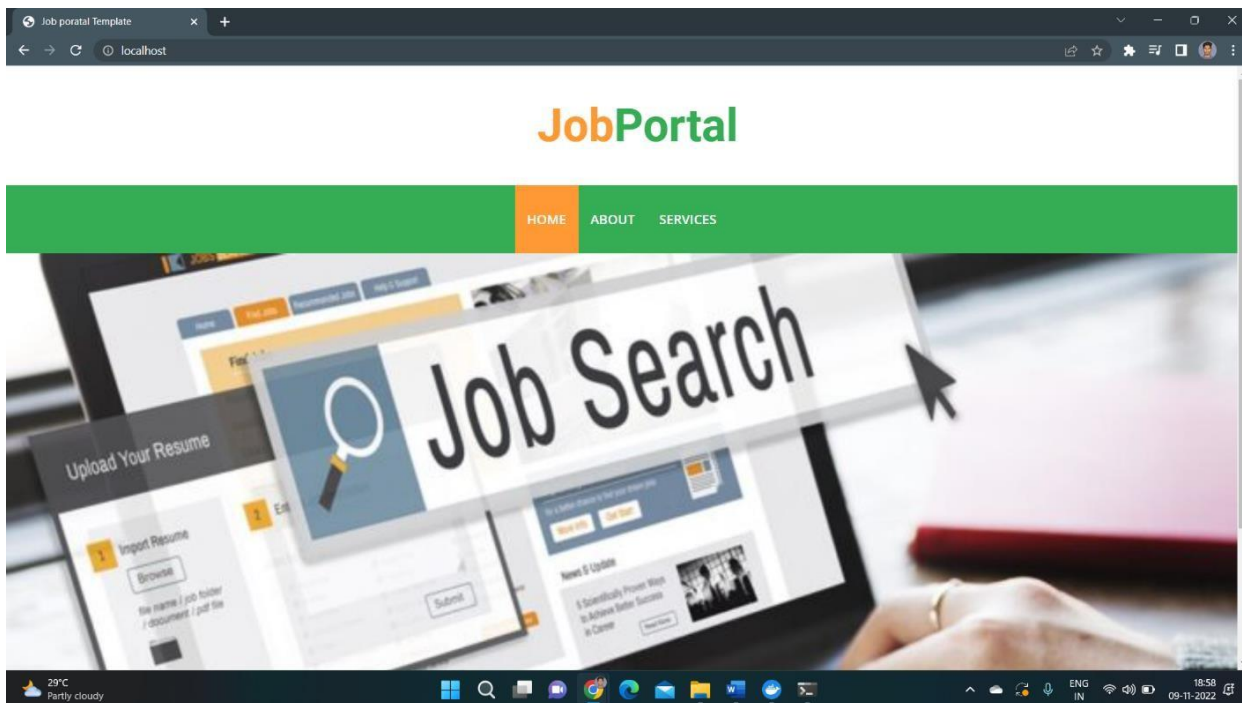


The screenshot shows a VS Code editor with a Dockerfile and index.html file. The Dockerfile is open in the editor, showing the following content:

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <title>Job portal Template</title>
7   <meta content="width=device-width, initial-scale=1.0" name="viewport">
8   <meta content="Free HTML Templates" name="keywords">
9   <meta content="Free HTML Templates" name="description">
10
11   <!-- Favicon -->
12   <link href="img/favicon.ico" rel="icon">
13
14   <style>
15     .hb {
16       margin: auto;
17       width: 15%;
18       padding: 10px;
19     }
20   </style>
21
22   <!-- Google Web Fonts -->
23   <link rel="preconnect" href="https://fonts.gstatic.com">
24   <link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;600&family=Roboto:wght@500;700&display=swap" rel="stylesheet">
25
26   <!-- Icon Font Stylesheet -->
27   <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.0/css/all.min.css" rel="stylesheet">
28   <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" rel="stylesheet">
29
30   <!-- Libraries Stylesheet -->
31   <link href="lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">
32
33   <!-- Customized Bootstrap Stylesheet -->
34   <link href="css/bootstrap.min.css" rel="stylesheet">
35
36   <!-- Template Stylesheet -->
37   <link href="css/style.css" rel="stylesheet">
```

The index.html file is also visible in the Explorer panel, showing the following content:

```
1 <!-- DOCTYPE html -->
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <title>Job portal Template</title>
7   <meta content="width=device-width, initial-scale=1.0" name="viewport">
8   <meta content="Free HTML Templates" name="keywords">
9   <meta content="Free HTML Templates" name="description">
10
11   <!-- Favicon -->
12   <link href="img/favicon.ico" rel="icon">
13
14   <style>
15     .hb {
16       margin: auto;
17       width: 15%;
18       padding: 10px;
19     }
20   </style>
21
22   <!-- Google Web Fonts -->
23   <link rel="preconnect" href="https://fonts.gstatic.com">
24   <link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;600&family=Roboto:wght@500;700&display=swap" rel="stylesheet">
25
26   <!-- Icon Font Stylesheet -->
27   <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.0/css/all.min.css" rel="stylesheet">
28   <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" rel="stylesheet">
29
30   <!-- Libraries Stylesheet -->
31   <link href="lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">
32
33   <!-- Customized Bootstrap Stylesheet -->
34   <link href="css/bootstrap.min.css" rel="stylesheet">
35
36   <!-- Template Stylesheet -->
37   <link href="css/style.css" rel="stylesheet">
```



### Question 3:

Create a IBM container registry and deploy helloworld app or jobportalapp.

```

C:\Users\VIJAR RS>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest

C:\Users\VIJAR RS>docker tag hello-world icr.io/jobwebsite/jobportal:latest

C:\Users\VIJAR RS>docker push icr.io/jobwebsite/jobportal:latest
The push refers to repository [icr.io/jobwebsite/jobportal]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bclaac5eala25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525

C:\Users\VIJAR RS>ibmcloud cr image-list
Listing images...

Repository          Tag      Digest          Namespace      Created      Size      Security status
icr.io/jobwebsite/jobportal  latest  f54a58bclaac    jobwebsite     1 year ago   2.5 kB    -

OK

```

Question 4:

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

