Assignment -4

Assignment Date	26 October 2022
Student Name	KARTHEEPAN U V
Student Roll Number	19CS037
Maximum Marks	2 Marks

Question-1:

- 1. Pull an Image from docker hub and run it in docker playground.
- 2. Create a docker file for the jobportal application and deploy it in Docker desktop application.
- 3. Create a IBM container registry and deploy helloworld app or jobportalapp.
- 4.Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

Solution:

```
HTML
```

Dockerfile

```
FROM python:3.10.4

WORKDIR /app

COPY requirements.txt ./

RUN pip install -r requirements.txt
```

```
COPY . .

EXPOSE 5000

CMD ["python","./app.py"]

Python

from flask import Flask, render_template, request, url_for, flash, redirect

app = Flask(__name__)

app.config['SECRET_KEY'] = 'df0331cefc6c2b9a5d0208a726a5d1c0fd37324feba25506'

@app.route('/')

def index():
    return render_template('index.html')

if __name__ == '__main__':
```

app.run(host='0.0.0.0', port=5000, debug=True)