

Assignment - 4
Kubernetes/Docker

Assignment Date	11 November 2022
Student Name	PavanKumar.D
Student Roll Number	110319104031
Maximum Marks	2 Marks

Question-1:

1.Working with Docker and Kubernetes and deploying as Nodeport.

APP.py

```
from flask import Flask, render_template, request, url_for, flash, redirect
app = Flask(__name__)
app.config['SECRET_KEY'] = 'df0331cefc6c2b9a5d0208a726a5d1c0fd37324feba25506'
@app.route('/create/', methods=('GET', 'POST'))
def create():
    if request.method == 'POST':
        title = request.form['title']
        content = request.form['content']
        if not title:
            flash('Title is required!')
        elif not content:
            flash('Content is required!')
        else:
            messages.append({'title': title, 'content': content})
            name = "Pravin Kumar"
            return redirect(url_for('index', messages=name ))
    return render_template('create.html')
messages = [{'title': 'Message One(Auto Generated)',
             'content': 'Format of the messages'},
            {'title': 'Message Two(Auto Generated)',
             'content': 'This is a sample message'}
]
@app.route('/')
def index():
    return render_template('index.html', messages=messages)
@app.route('/admin')
def hello_admin():
    return 'Hello Admin'
@app.route('/guest/<guest>')
def hello_guest(guest):
    return 'Hello %s as Guest' % guest
@app.route('/user/<name>')
def hello_user(name):
    if name == 'admin':
        return redirect(url_for('hello_admin'))
```

```
else:  
    return redirect(url_for('hello_guest', guest = name))
```

```
if __name__ == '__main__':  
    app.run(host='0.0.0.0', port=5000, debug=True)
```

Output:



