Assignment - 4
Kubernetes/Docker

Assignment Date	30 october 2022
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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:

Not secure | 192.168.1.8:5000/create/

HOME   CREATE A NEW MESSAGE

Give us Your Message

TITLE

My New Message

DESCRIPTION

This is my first message as a customer

Submit

Not secure | 192.168.1.8:5000/?messages=Pravin+Kumar

HOME   CREATE A NEW MESSAGE

Hello Customer

Your Messages

TITLE : Message One(Auto Generated)

MESSAGE : Format of the messages

TITLE : Message Two(Auto Generated)

MESSAGE : This is a sample message

TITLE : My new message

MESSAGE : This is my first message as a customer