

**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:
```

The screenshot shows a web application interface. At the top, there is a green navigation bar with the text "HOME" and "CREATE A NEW MESSAGE". Below the navigation bar, the main content area has a yellow background. On the right side, it says "Hello Customer". On the left side, it says "Your Messages". Below this, there are two message entries, each in a grey box. The first entry has the title "TITLE : Message One(Auto Generated)" and the message "MESSAGE : Format of the messages". The second entry has the title "TITLE : Message Two(Auto Generated)" and the message "MESSAGE : This is a sample message".

The screenshot shows a web application interface for creating a new message. At the top, there is a green navigation bar with the text "HOME" and "CREATE A NEW MESSAGE". Below the navigation bar, the main content area has a yellow background. On the left side, it says "Give us Your Message". In the center, there is a form with two sections. The first section is labeled "TITLE" and has a text input field with the placeholder text "Message title". The second section is labeled "DESCRIPTION" and has a text area with the placeholder text "Message content". At the bottom right of the form, there is a blue button labeled "Submit".

[HOME](#) [CREATE A NEW MESSAGE](#)

## Give us Your Message

TITLE

My New Message

DESCRIPTION

This is my first message as a customer

Submit

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