

EX 7 WT

[app1.py](#)

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def hello():
    return "Hello from App 1"

app.run(host='0.0.0.0', port=5001)
```

[app2.py](#)

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def hello():
    return "Hello from App 2"

app.run(host='0.0.0.0', port=5002)
```

Cmd

```
>python app1.py
>python app2.py
```

Install NGINX

<https://nginx.org/en/download.html>

Extract the .zip file to a folder, for example:

C:\Users\mayur\Downloads\nginx-1.29.3\

Step 3: Start NGINX

1. Open Command Prompt and navigate to the NGINX folder:

```
cd "C:\Users\mayur\Downloads\nginx-1.29.3\nginx-1.29.3"
```

2. Start NGINX:

```
nginx.exe
```

Step 4: Verify Installation

1. Open a browser and visit:

```
http://localhost
```

Step 5: Configure NGINX as a Reverse Proxy

1. Open the NGINX config file:
cmd

```
C:\Users\mayur\Downloads\nginx-1.29.3\nginx-1.29.3\conf\nginx.conf
```

Step 3: Start NGINX

1. Open **Command Prompt** in the NGINX folder:

```
cd "C:\Users\mayur\Downloads\nginx-1.29.3\nginx-1.29.3"
```

```
nginx.exe
```

2. If you modify the config later, reload it:

```
nginx.exe -s reload
```

Step 4: Test Load Balancing

- Open browser or Command Prompt:

```
curl http://localhost/
```

- Expected output alternates between:

```
Hello from App 1
```

```
Hello from App 2
```

- Each refresh → NGINX forwards requests to the next Flask app (**round-robin** load balancing).

Step 5: Stop NGINX (if needed)

```
nginx.exe -s quit
```