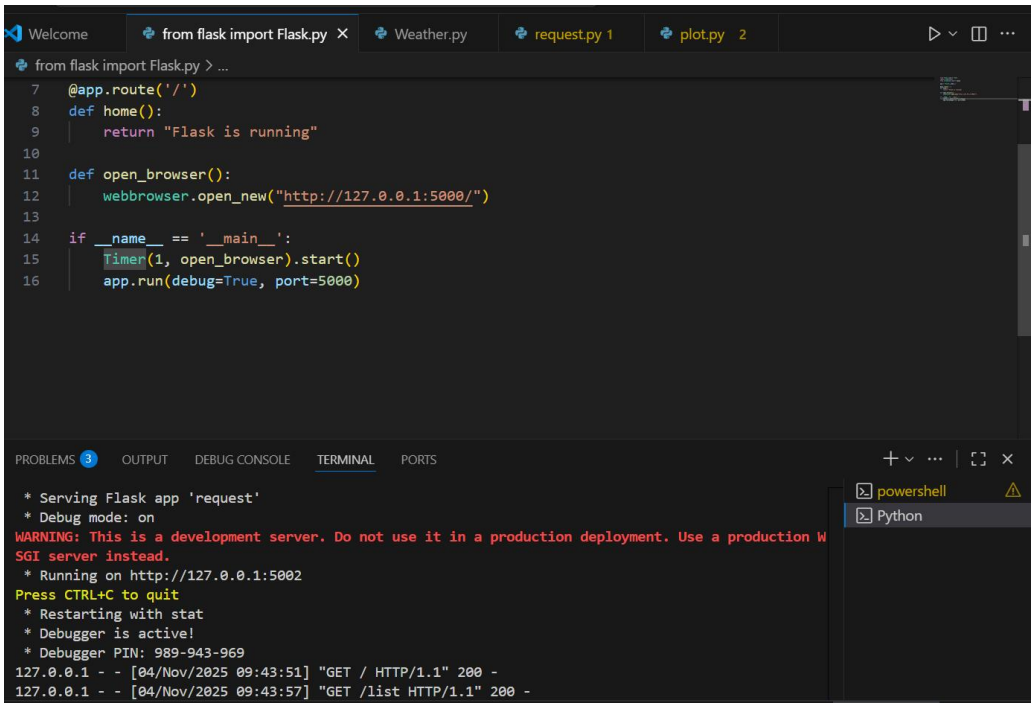
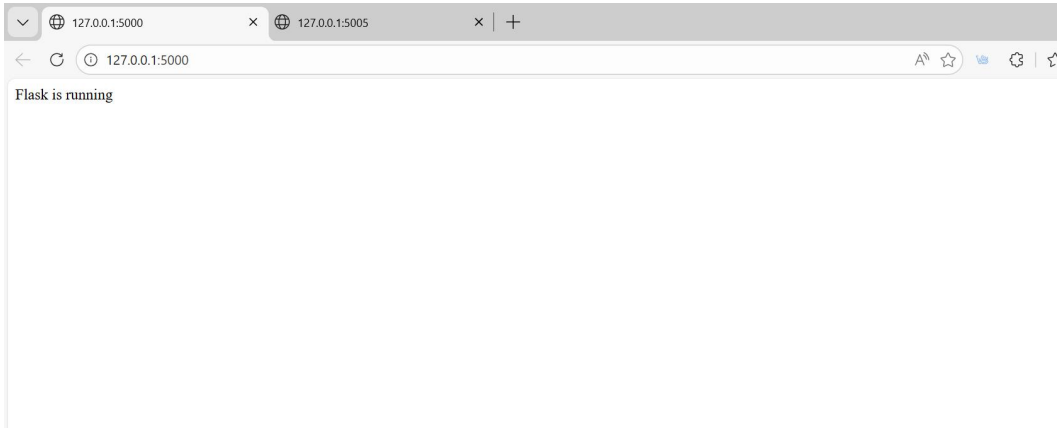
Name:S.Jewel Reddy

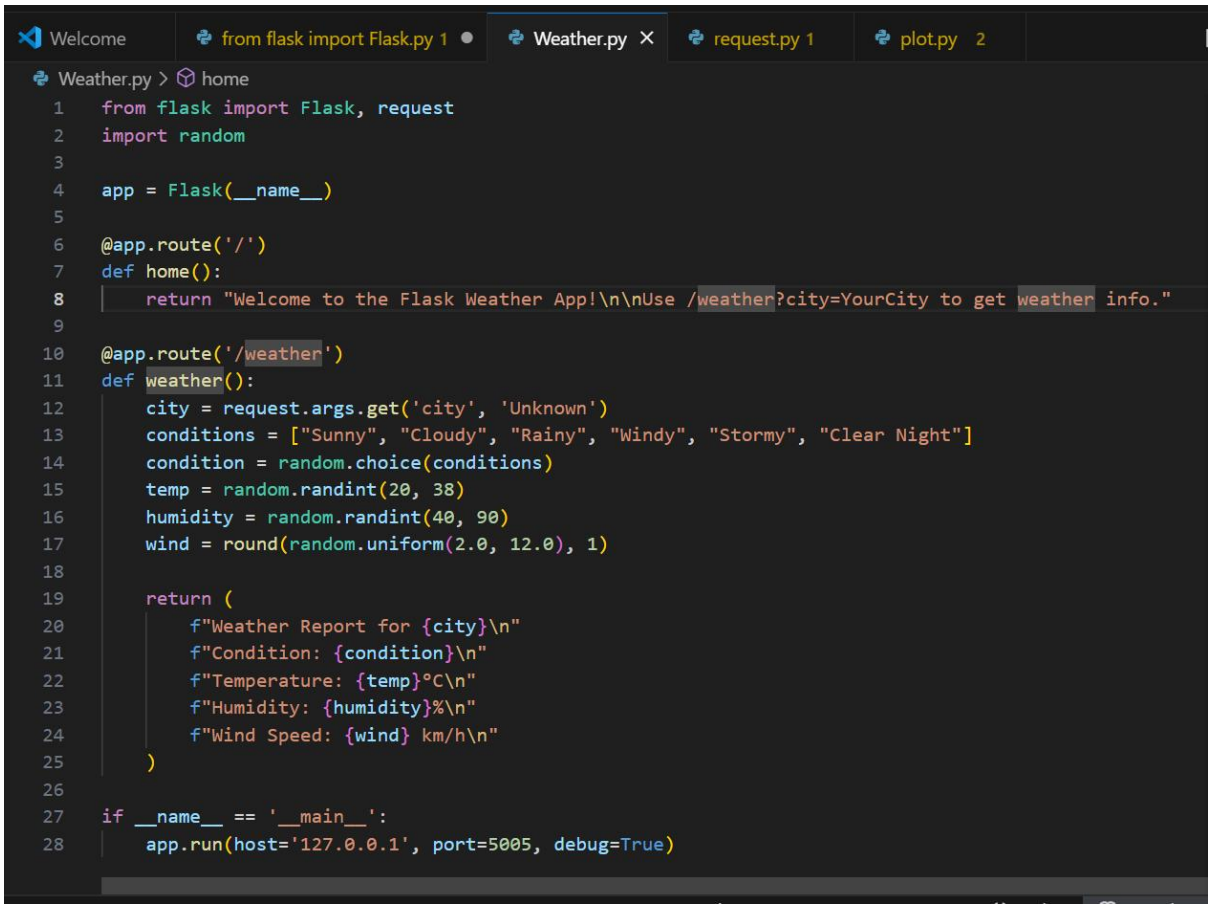
Reg No:22MID0161

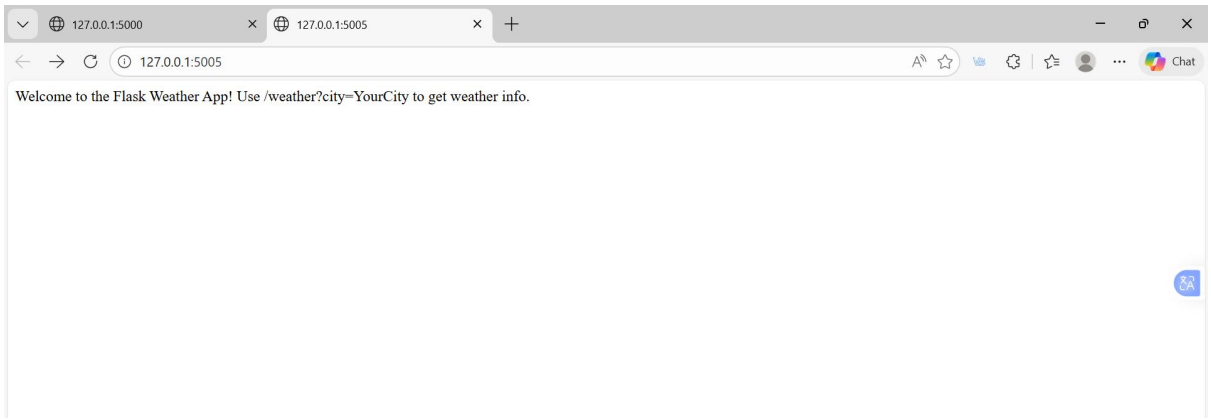
Flask Application:

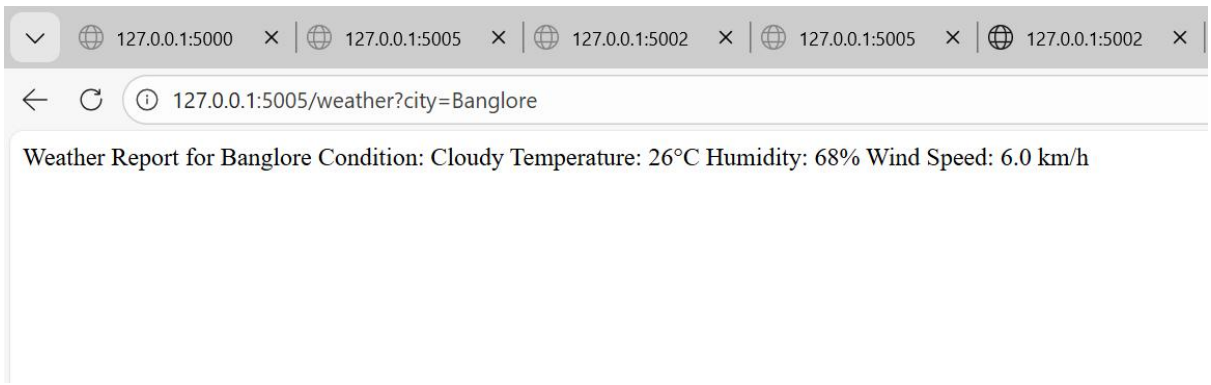




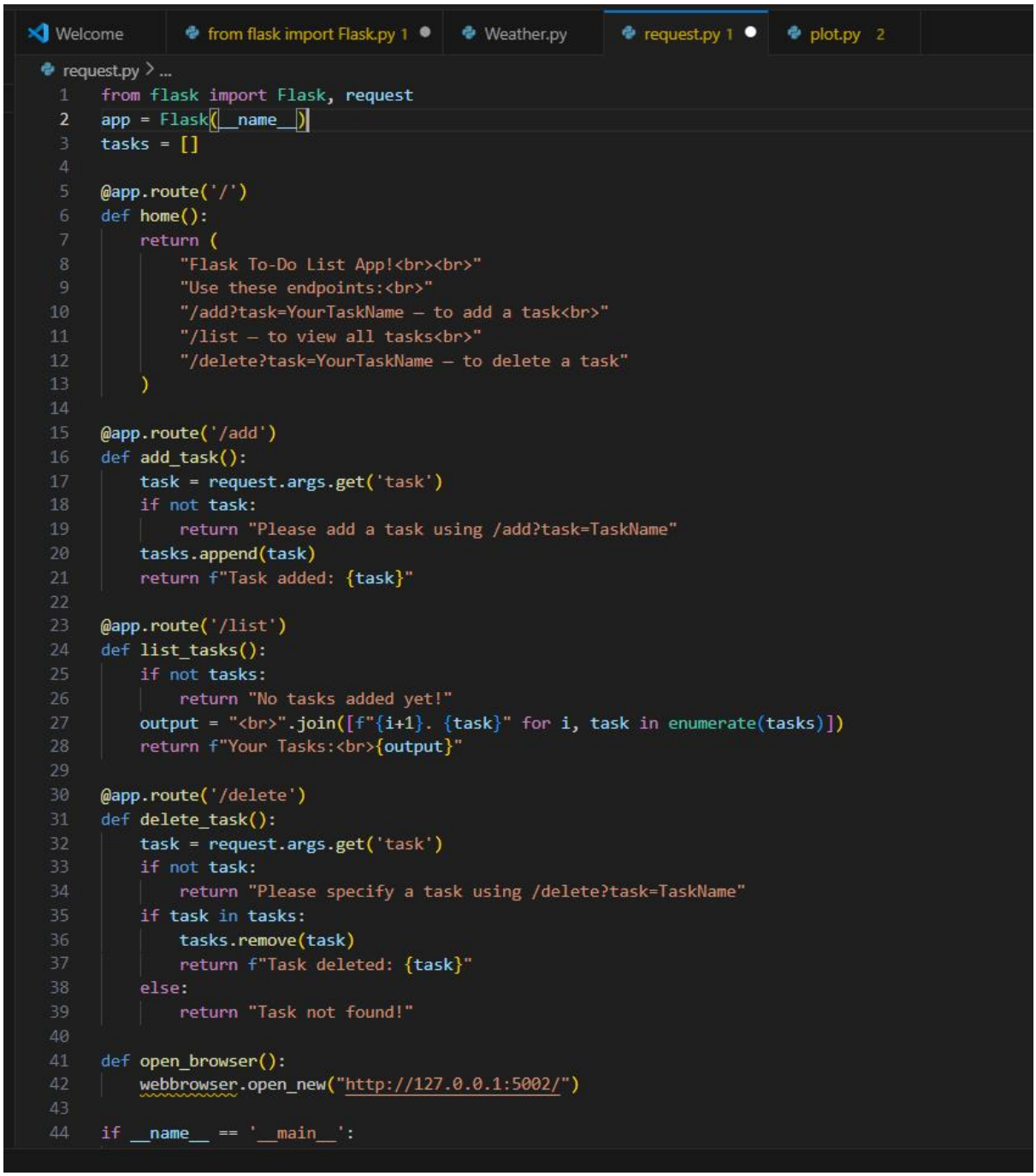
Weather Update with Flask:



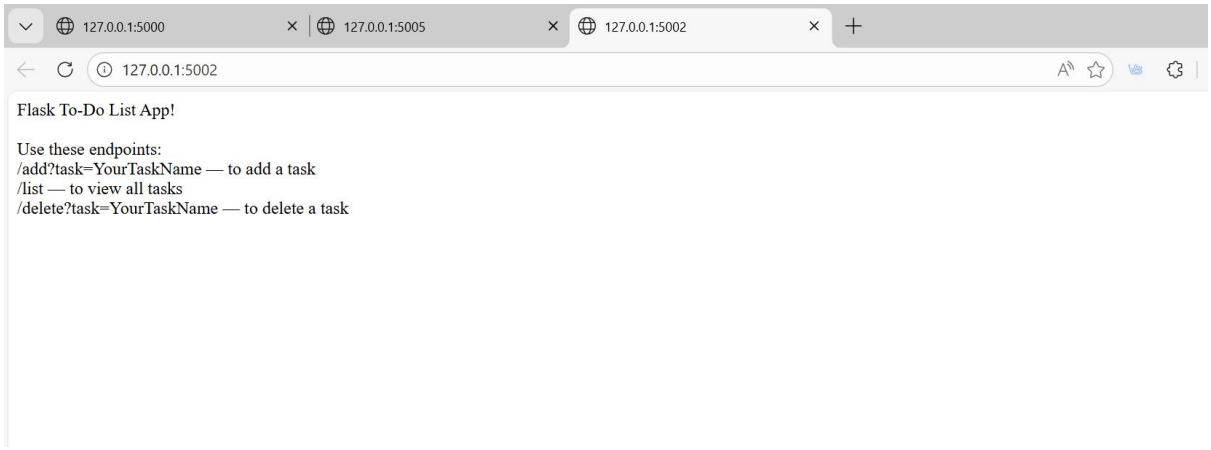


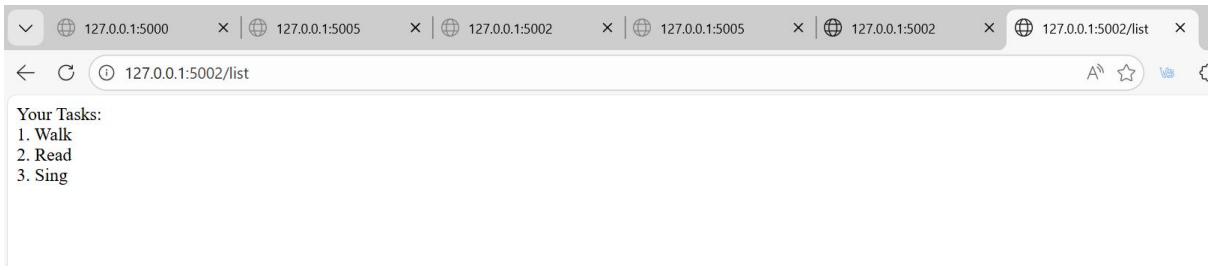


Task list:


Welcome
from flask import Flask.py 1
Weather.py
request.py 1
plot.py 2
request.py > ...
1 from flask import Flask, request
2 app = Flask(__name__)
3 tasks = []
4
5 @app.route('/')
6 def home():
7 return (
8 "Flask To-Do List App!

"
9 "Use these endpoints:
"
10 "/add?task=YourTaskName – to add a task
"
11 "/list – to view all tasks
"
12 "/delete?task=YourTaskName – to delete a task"
13)
14
15 @app.route('/add')
16 def add_task():
17 task = request.args.get('task')
18 if not task:
19 return "Please add a task using /add?task=TaskName"
20 tasks.append(task)
21 return f"Task added: {task}"
22
23 @app.route('/list')
24 def list_tasks():
25 if not tasks:
26 return "No tasks added yet!"
27 output = "
".join([f"{i+1}. {task}" for i, task in enumerate(tasks)])
28 return f"Your Tasks:
{output}"
29
30 @app.route('/delete')
31 def delete_task():
32 task = request.args.get('task')
33 if not task:
34 return "Please specify a task using /delete?task=TaskName"
35 if task in tasks:
36 tasks.remove(task)
37 return f"Task deleted: {task}"
38 else:
39 return "Task not found!"
40
41 def open_browser():
42 webbrowser.open_new("http://127.0.0.1:5002/")
43
44 if __name__ == '__main__':


127.0.0.1:5000
127.0.0.1:5005
127.0.0.1:5002
127.0.0.1:5002
Flask To-Do List App!
Use these endpoints:
/add?task=YourTaskName — to add a task
/list — to view all tasks
/delete?task=YourTaskName — to delete a task


127.0.0.1:5000
127.0.0.1:5005
127.0.0.1:5002
127.0.0.1:5005
127.0.0.1:5002
127.0.0.1:5002/list
127.0.0.1:5002/list
Your Tasks:
1. Walk
2. Read
3. Sing

Plotting in Flask

Welcome | from flask import Flask.py 1 | Weather.py | request.py 1 | plot.py

plot.py > ...

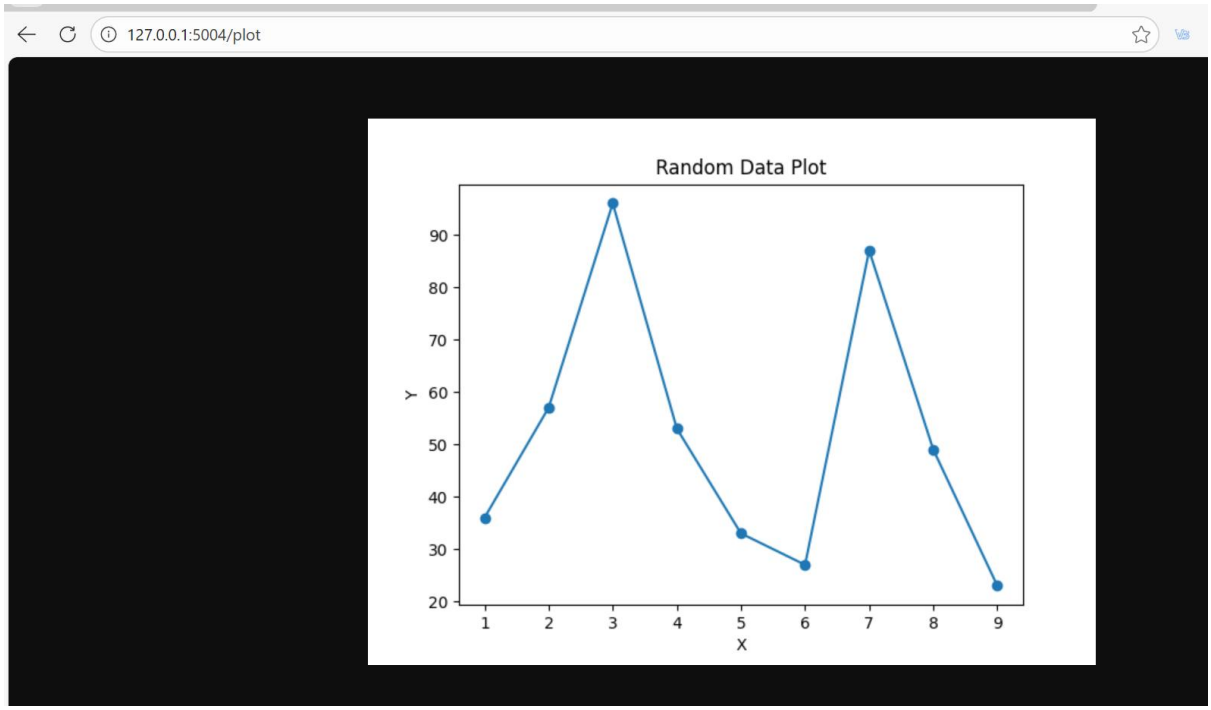
```python
from flask import Flask, Response
import matplotlib.pyplot as plt
import io, random, webbrowser
from threading import Timer

app = Flask(__name__)

@app.route('/')
def home():
    return (
        "Simple Flask Data Dashboard<br><br>"
        "Use:<br>"
        "/plot — to view a random data chart"
    )

@app.route('/plot')
def plot():
    x = [1, 2, 3, 4, 5, 6, 7, 8, 9]
    y = [random.randint(10, 100) for _ in x]
    plt.plot(x, y, marker='o')
    plt.title("Random Data Plot")
    plt.xlabel("X")
    plt.ylabel("Y")
    buf = io.BytesIO()
    plt.savefig(buf, format='png')
    plt.close()
    buf.seek(0)
    return Response(buf.getvalue(), mimetype='image/png')

def open_browser():
    webbrowser.open_new("http://127.0.0.1:5004/")

if __name__ == '__main__':
    Timer(1, open_browser).start()
    app.run(debug=True, port=5004)
```

127.0.0.1 × | 127.0.0.1 × | 127.0.0.1 × | 127.0.0.1 × | 127.0.0.1 × | 127.0.0.1 × | 127.0.0.1 × | 127.0.0.1 ×

127.0.0.1:5004

Simple Flask Data Dashboard

Use:
/plot — to view a random data chart


127.0.0.1:5004/plot
Random Data Plot
Y
X
90
80
70
60
50
40
30
20
1
2
3
4
5
6
7
8
9