

ADVANCED PYTHON PROGRAMMING

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SLOT:L7+L8+L27+L28

FLASK:

Open vs code create new folder as flask

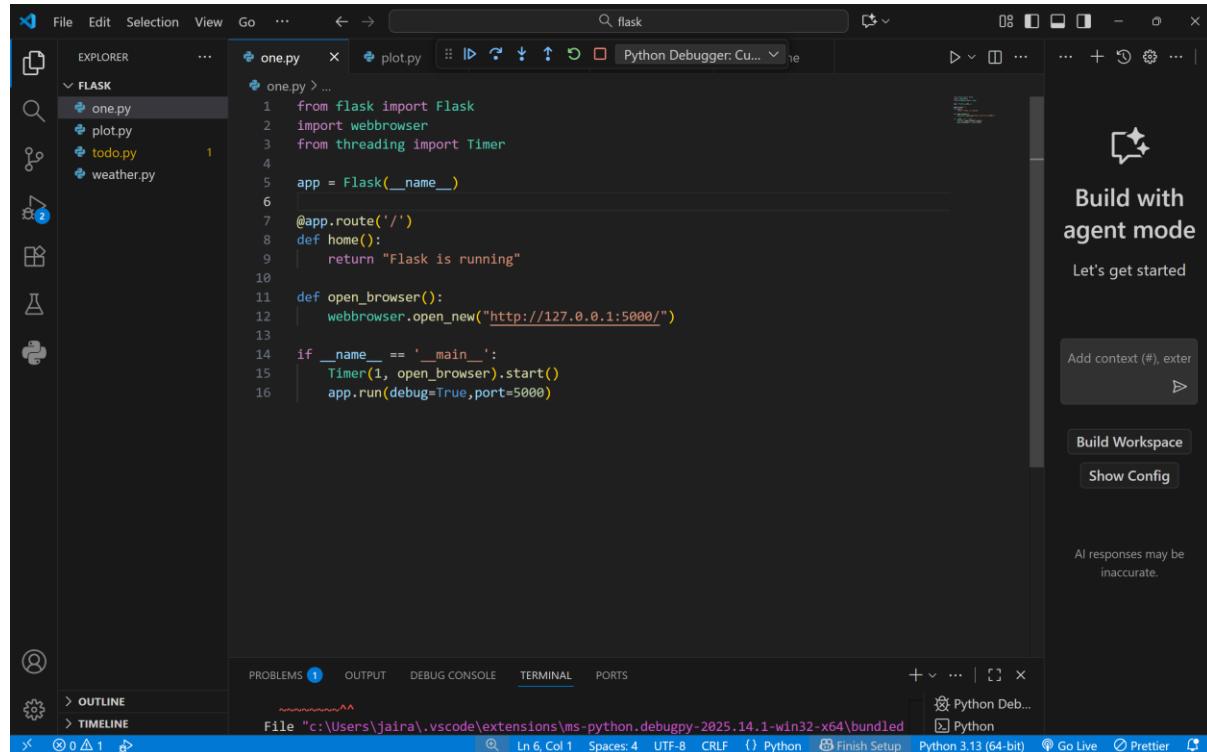
Then in that folder create new files ,

One.py:

plot.py:

todo.py:

weather.py:



```
from flask import Flask
import webbrowser
from threading import Timer
app = Flask(__name__)
@app.route('/')
def home():
    return "Flask is running"
def open_browser():
    webbrowser.open_new("http://127.0.0.1:5000/")
if __name__ == '__main__':
    Timer(1, open_browser).start()
    app.run(debug=True, port=5000)
```

The screenshot shows a Visual Studio Code (VS Code) interface with a Python debugger session. On the left, the sidebar displays the file structure and various debugging tools like Variables, Watch, Call Stack, and Breakpoints. The main editor area contains two files: `one.py` and `plot.py`. The `plot.py` file is open and contains the following code:

```
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()

```

The terminal tab shows the output of the Flask application running on port 5004. It includes a warning about using a development server in production and logs several incoming HTTP requests:

```
PS D:\flask> & 'c:\Users\jaira\AppData\Local\Programs\Python\Python311\python' 'D:\flask\plot.py'
* Serving Flask app 'plot'
* Debug mode: on
WARNING: This is a development server. Do not use it in production! Use a WSGI server instead.
* Running on http://127.0.0.1:5004
Press CTRL+C to quit
* Restarting with watchdog (windowsapi)
* Debugger is active!
* Debugger PIN: 947-306-342
127.0.0.1 - - [08/Nov/2025 23:14:14] "GET / HTTP/1.1"
127.0.0.1 - - [08/Nov/2025 23:14:14] "GET /favicon.ico"
127.0.0.1 - - [08/Nov/2025 23:14:16] "GET / HTTP/1.1"
```