

Project -> RESTAPI micro service for user management

Output file

Steps to handle this program

Step 1:

Install python library – flask

By using – pip install flask

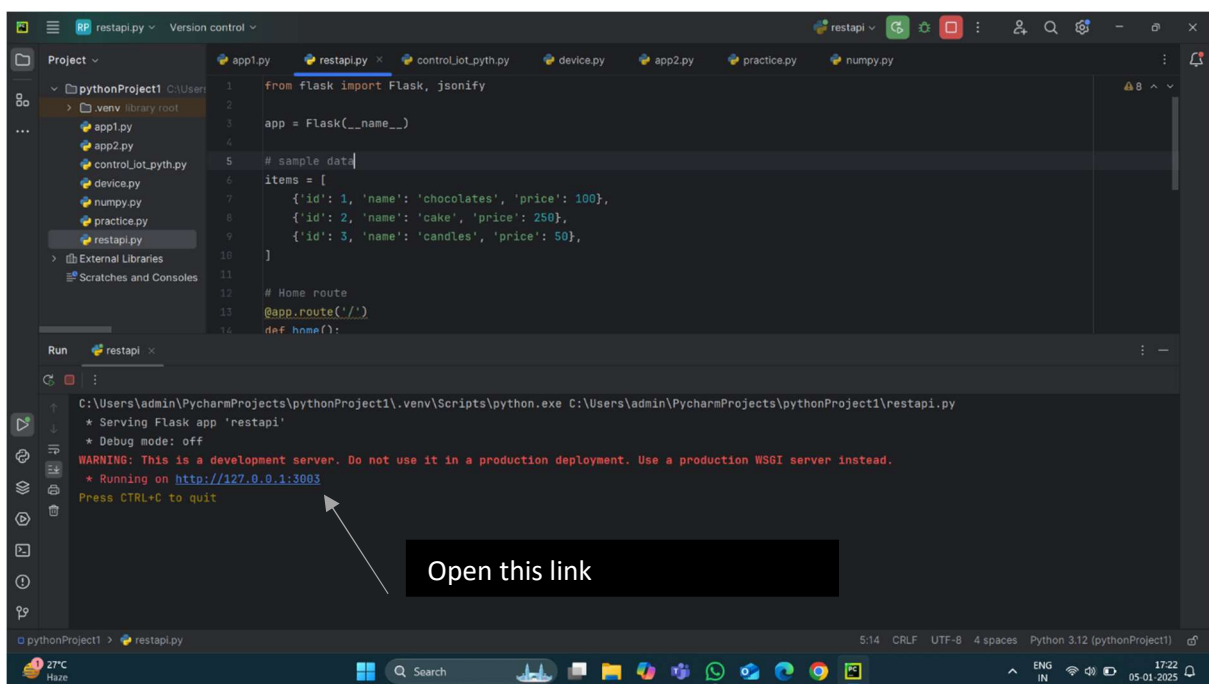
Step 2 :

Use python code to generate URL

Step 3:

Execute the program ,After executing url is generated

<http://127.0.0.1:3003>



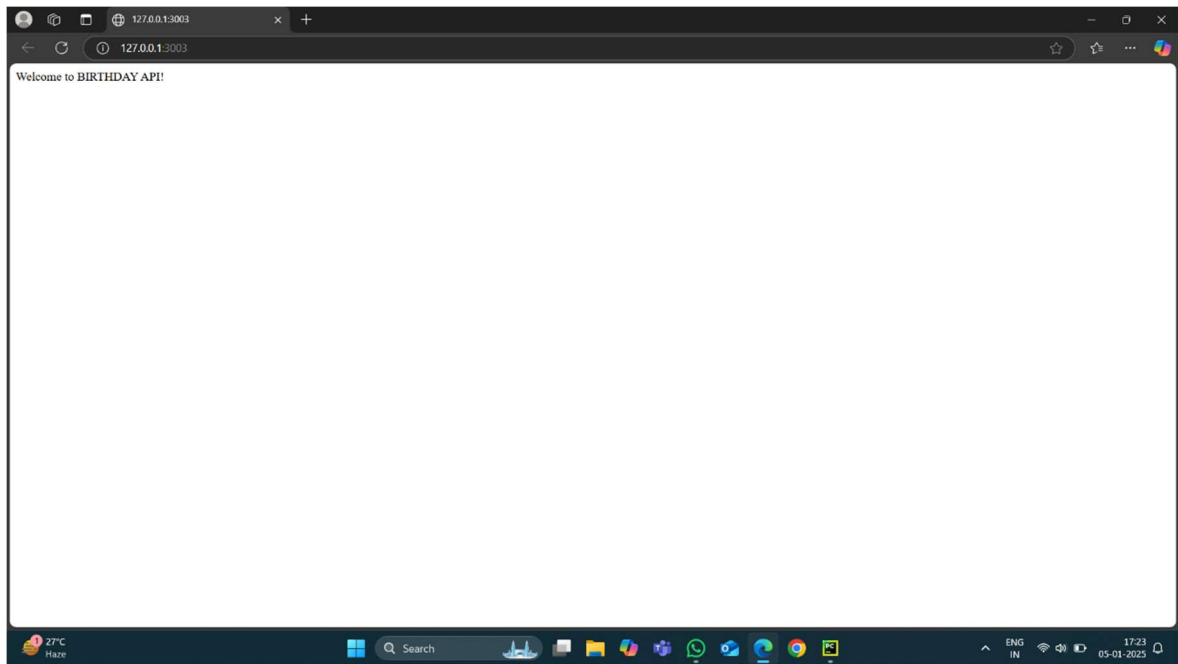
```
1 from flask import Flask, jsonify
2
3 app = Flask(__name__)
4
5 # sample data
6 items = [
7     {'id': 1, 'name': 'chocolates', 'price': 100},
8     {'id': 2, 'name': 'cake', 'price': 250},
9     {'id': 3, 'name': 'candles', 'price': 50},
10 ]
11
12 # Home route
13 @app.route('/')
14 def home():
```

Run console output:

```
C:\Users\admin\PycharmProjects\pythonProject1\.venv\Scripts\python.exe C:\Users\admin\PycharmProjects\pythonProject1\restapi.py
* Serving Flask app 'restapi'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:3003
Press CTRL+C to quit
```

Open this link

Link takes you to web page (home page)

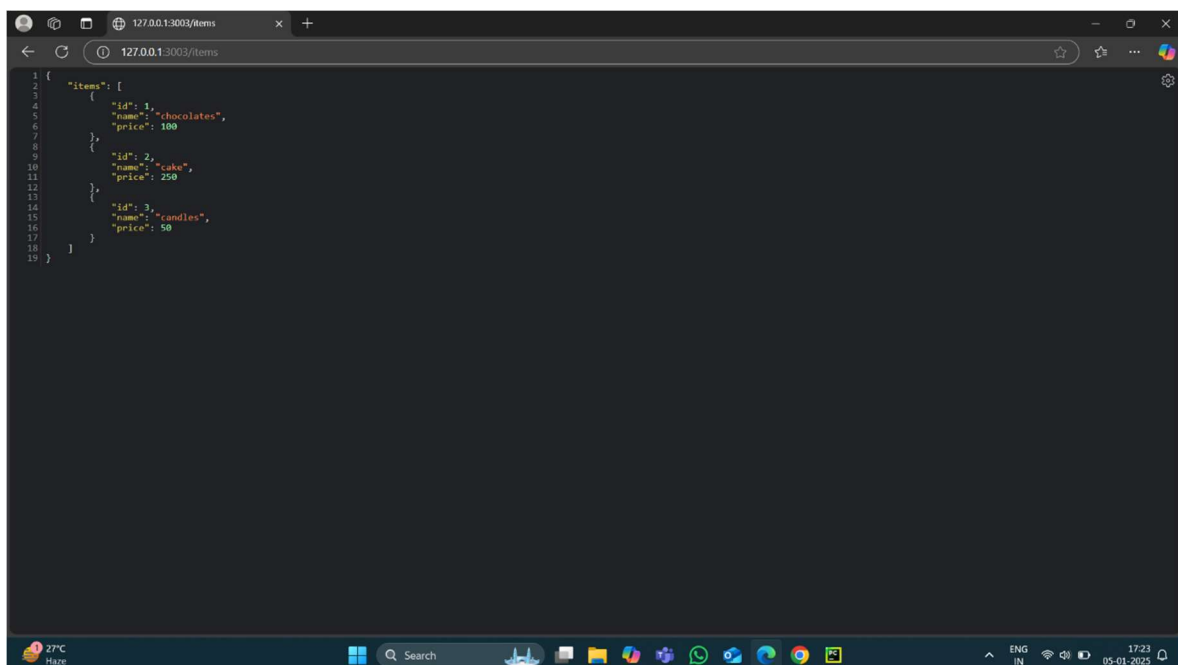


Step 4:

Method: GET-> retrieve all details

GET method will add /items to end point

`http://127.0.0.1:3003/items`

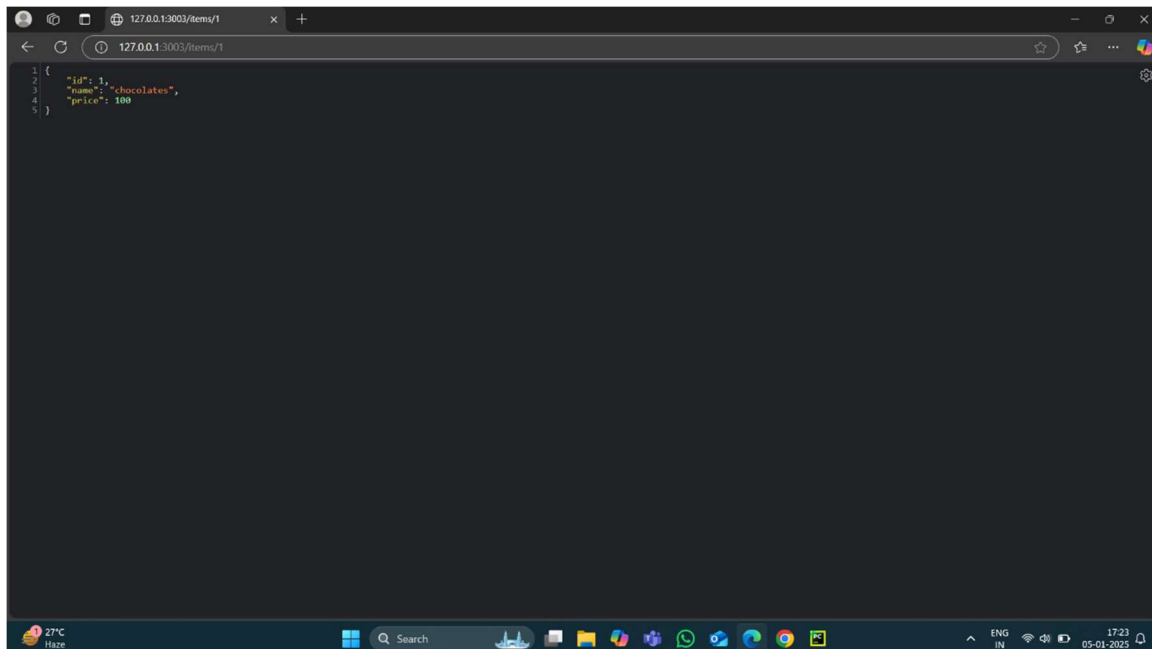


Step 5:

```
@app.route('/items/<int:item_id>', methods=['GET'])
```

Method: GET-> by adding item_id we get single item

<http://127.0.0.1:3003/items/1>

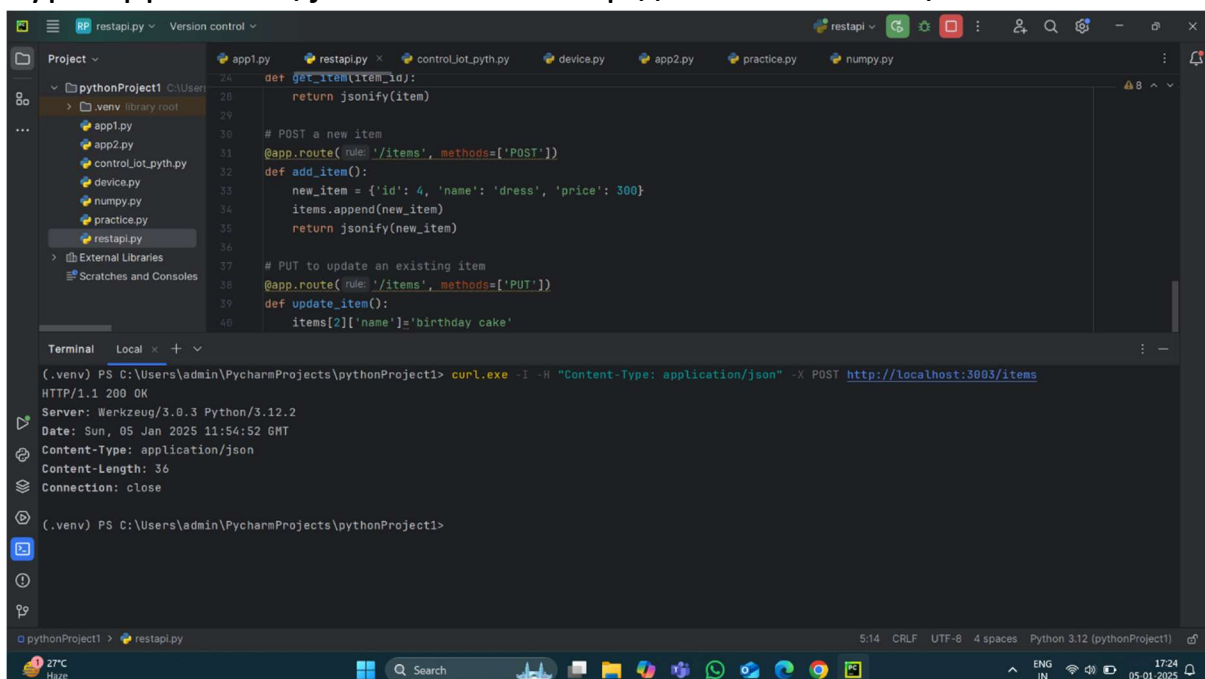


Step 6:

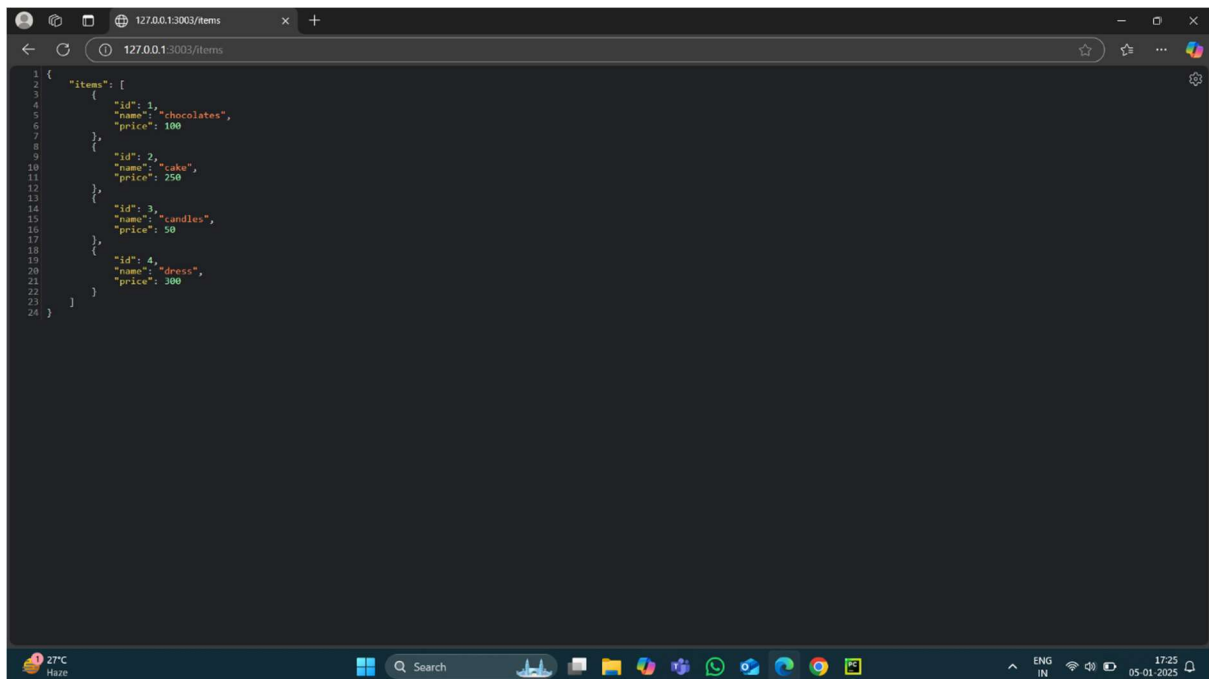
Method: POST-> is used to send data to a server via API

To update use bash code -> `curl.exe -I -H "Content-Type: application/json" -X POST http://localhost:3003/items`

`curl.exe -I -H "Content-Type: application/json" -X POST http://localhost:3003/items`



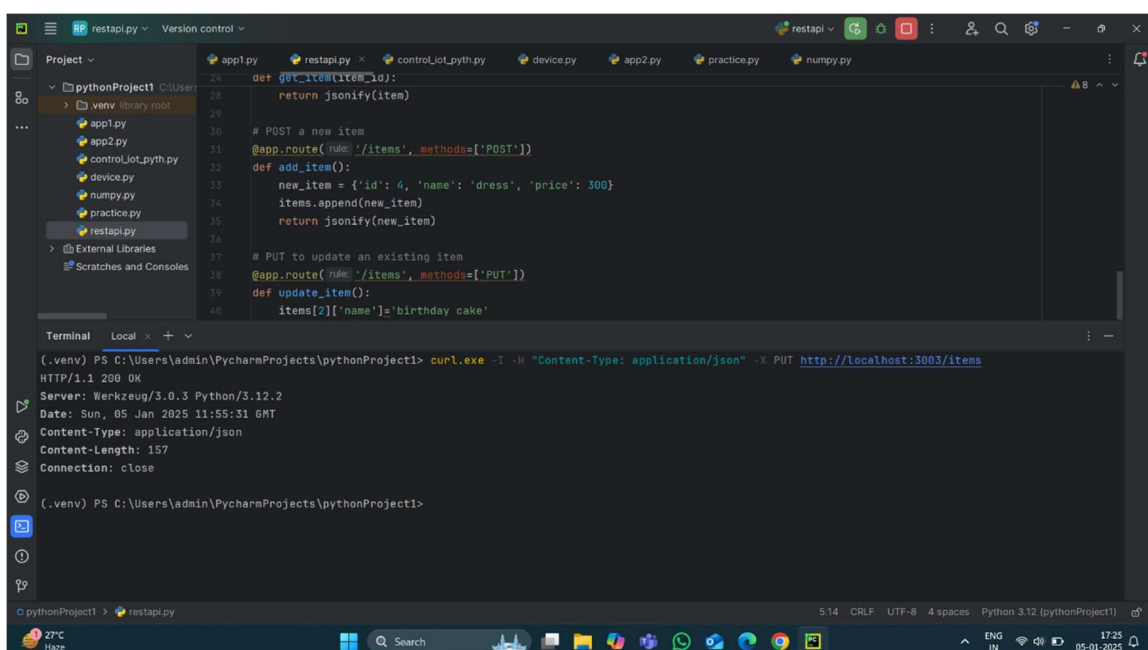
reload the `http://127.0.0.1:3003/items`
to get updated items



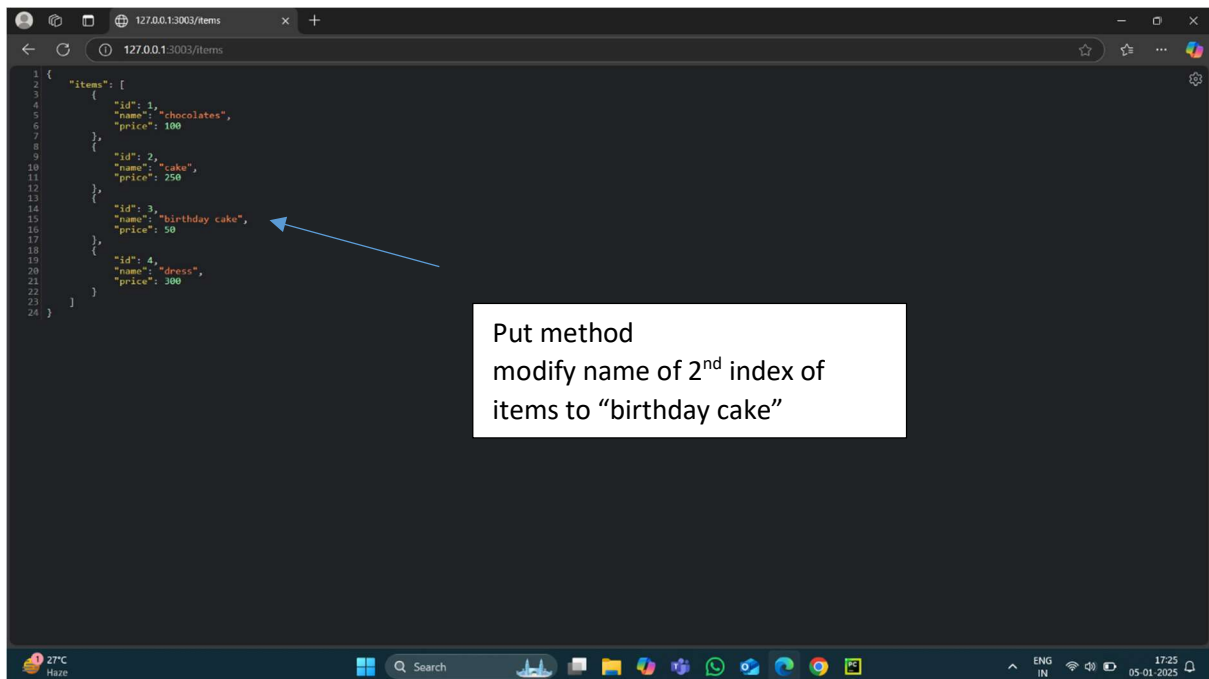
Step 7:

Method : PUT -> is an HTTP request method used in REST APIs to update an existing resource or create a new resource

To update use bash code -> `curl.exe -I -H "Content-Type:application/json" -X PUT http://localhost:3003/items`



reload the `http://127.0.0.1:3003/items`
to get updated items

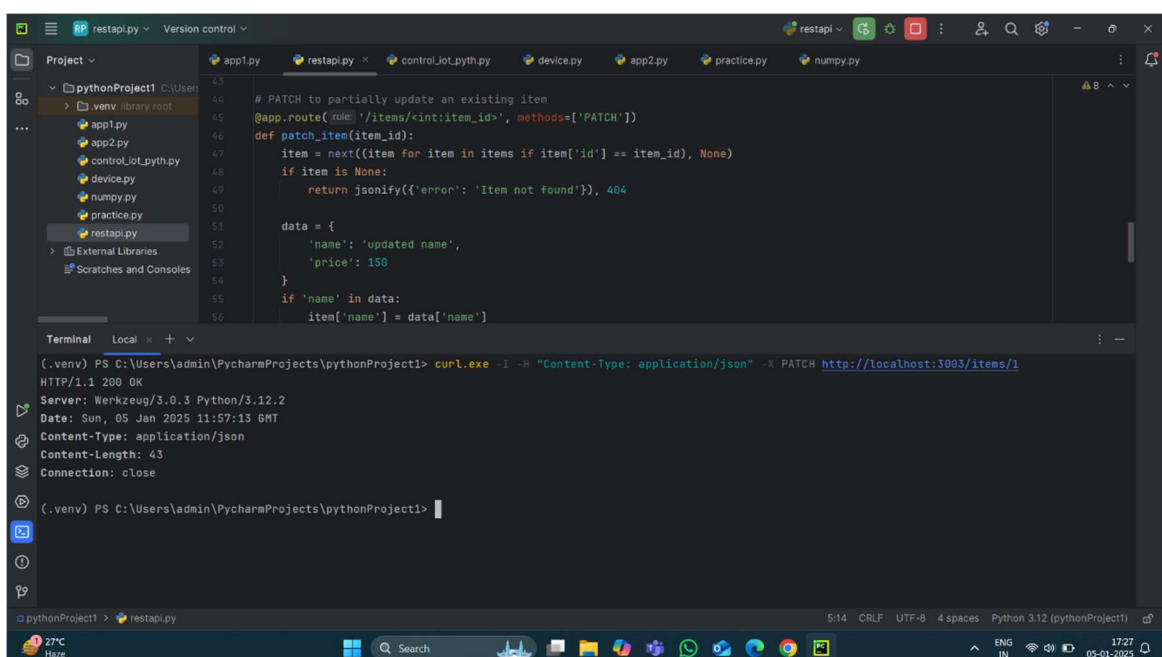


Step 8:

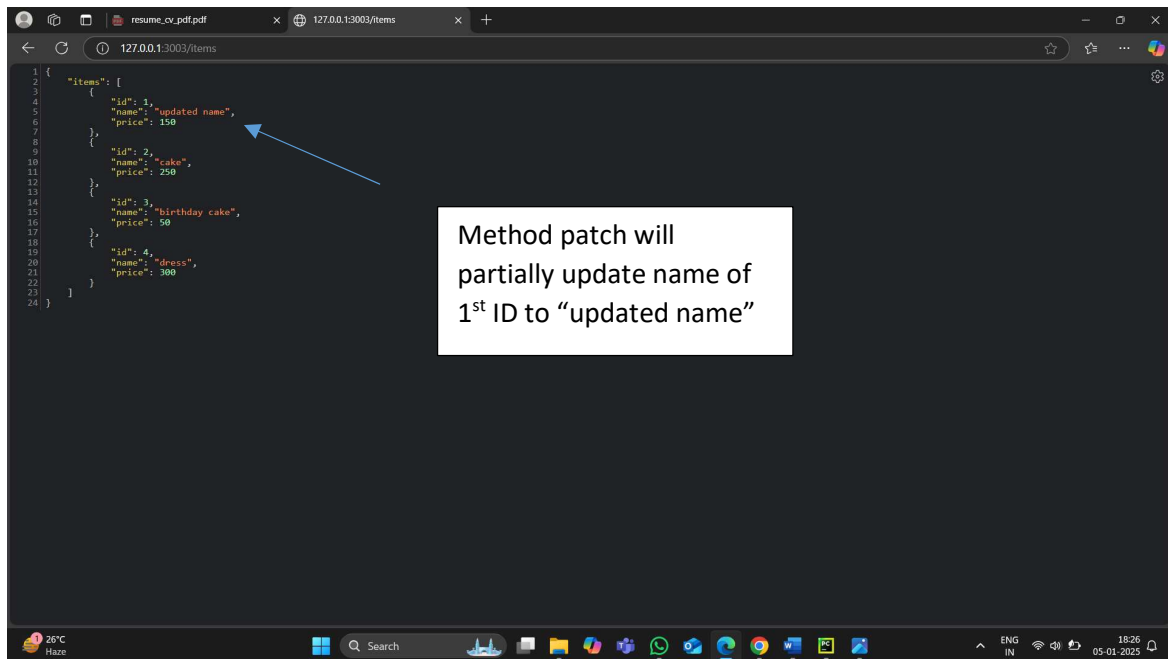
Method PATCH: is used to apply partial modifications to a resource

To update use bash code ->

`curl.exe -I -H "Content-Type:application/json" -X PATCH`
`http://localhost:3003/items/1`



reload the <http://127.0.0.1:3003/items/1>
to get updated items

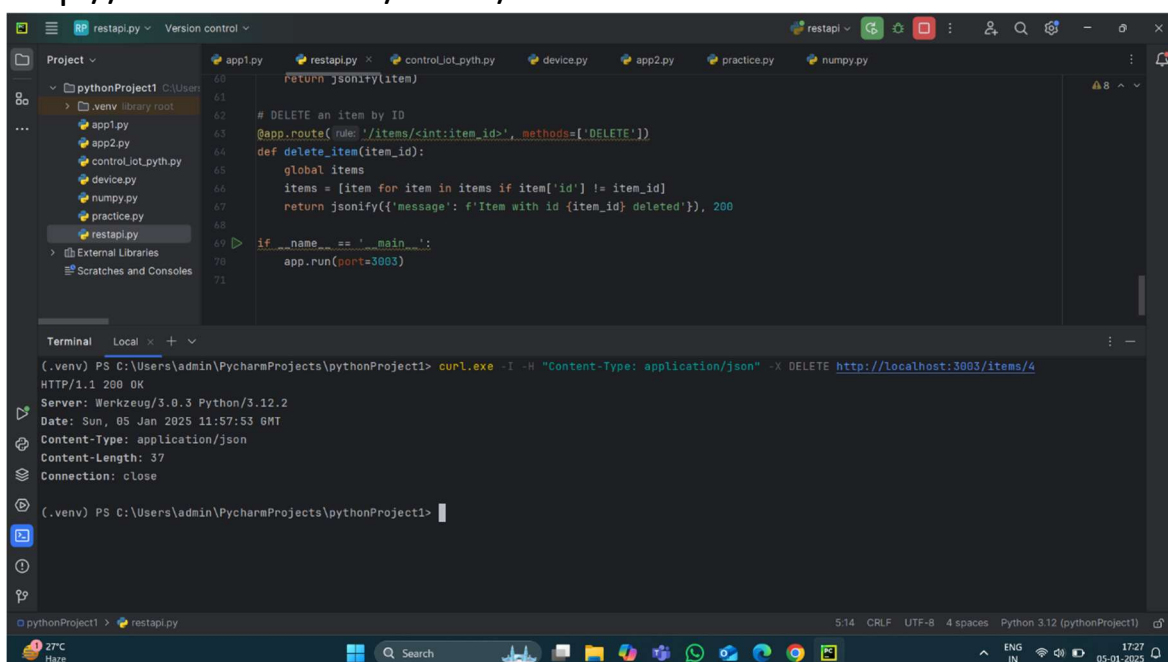


Step 9:

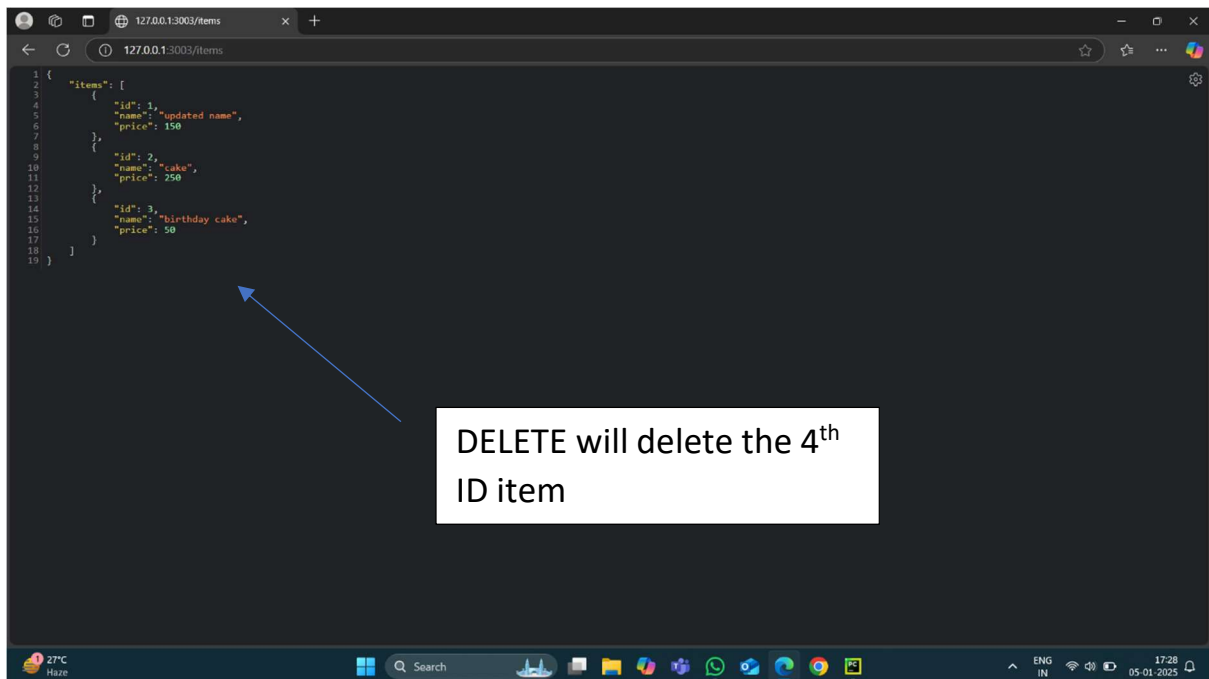
Method DELETE : is an HTTP method used to remove or delete a resource from a server. In the program item_id is mentioned as 4

To update use bash code ->

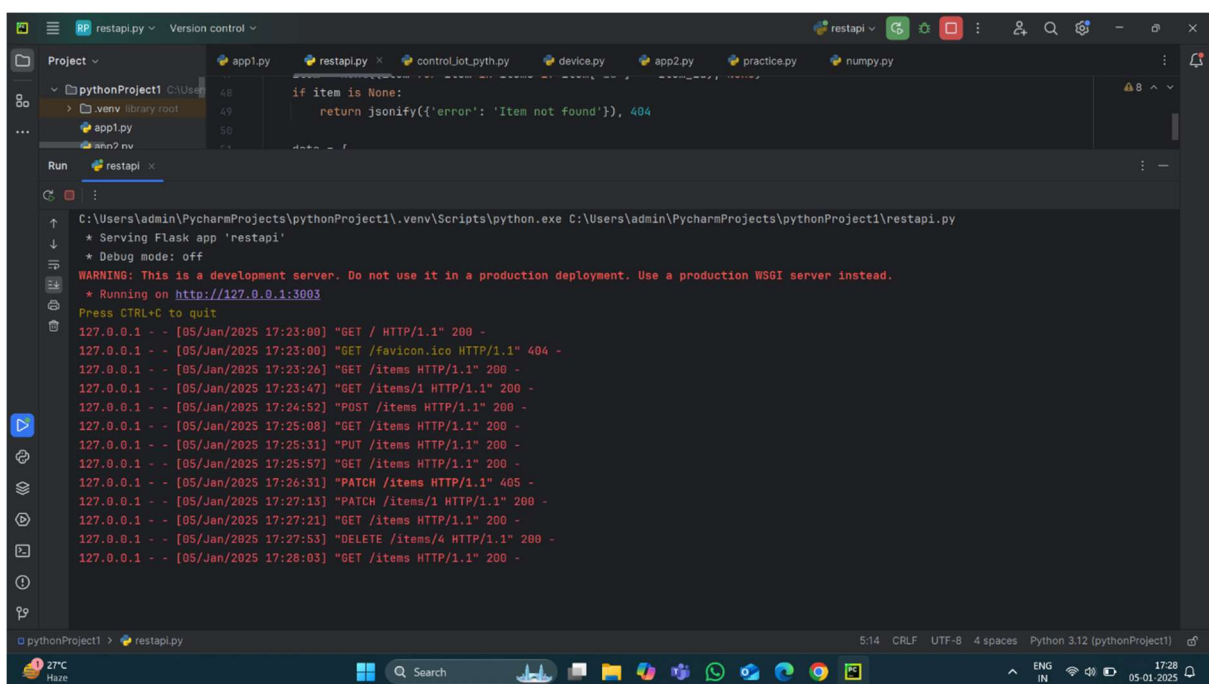
`curl.exe -I -H "Content-Type:application/json" -X DELETE`
<http://127.0.0.1:3003/items/4>



reload the `http://127.0.0.1:3003/items`
to get updated items



FINAL OUTCOMES OF PROJECT :



Press CTRL+C to quit.....