

LAPORAN ACTIVITY

Mata Praktikum : Algoritma dan Pemrograman 2B
Kelas : 1IA13
Praktikum ke- : 5
Tanggal : 12 MEI 2023
Materi : Route
NPM : 51422161
Nama : Muhammad Tarmidzi Bariq
Ketua Asisten : Muhammad Wildan Firdausi
Paraf Asisten :
Nama Asisten : Muhammad Wildan Firdausi
Jumlah Lembar : 5 Lembar

LABORATORIUM TEKNIK INFORMATIKA

UNIVERSITAS GUNADARMA

2023

```
1 from flask import Flask, request, jsonify
2
3 app = Flask(__name__)
4
5 data = [
6     {
7         "id": 1,
8         "name": "Muhammad Tarmidzi Bariq",
9         "kelas": "11A13",
10        "npm": "51422161",
11        "hobi": "Bertidur",
12        "jurusan": "Informatika",
13    }
14]
15
16
17 @app.route('/')
18 def home():
19     return "API Ready"
20
21
22 @app.route('/api/data', methods=['GET'])
```

TERMINAL

```
PS C:\Users\ASUS\Desktop\latihan coding\ALGO 1A\praktikum_algob\pertemuan4> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Desktop/latihan coding/ALGO 1A/praktikum_algob/pertemuan4/51422161_muhammad_tarmidzi_bariq/api.py"
* Serving Flask app 'api'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 105-587-869
127.0.0.1 - - [12/May/2023 14:25:54] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [12/May/2023 14:25:54] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [12/May/2023 14:26:21] "GET /api/data/1 HTTP/1.1" 404 -
127.0.0.1 - - [12/May/2023 14:29:18] "GET /api/data HTTP/1.1" 200 -
```

```
20
21
22 @app.route('/api/data', methods=['GET'])
23 def get_data():
24     return jsonify(data)
25
26 # route untuk metode POST
27
28
29 @app.route('/api/data', methods=['POST'])
30 def add_data():
31     new_data = request.json
32     data.append(new_data)
33
34     return jsonify(new_data)
35
36
37 if __name__ == "__main__":
38     app.run(debug=True)
39
```

TERMINAL

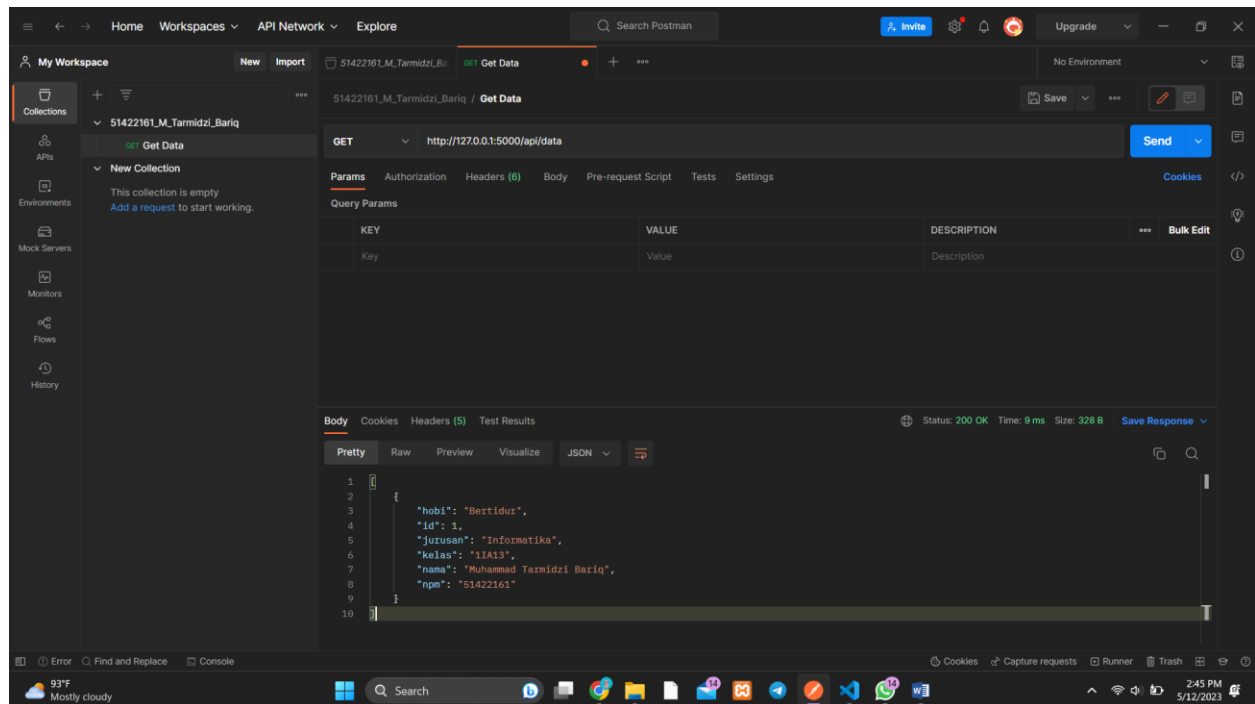
```
PS C:\Users\ASUS\Desktop\latihan coding\ALGO 1A\praktikum_algob\pertemuan4> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Desktop/latihan coding/ALGO 1A/praktikum_algob/pertemuan4/51422161_muhammad_tarmidzi_bariq/api.py"
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127.0.0.1 - - [12/May/2023 14:26:21] "GET /api/data/1 HTTP/1.1" 404 -
127.0.0.1 - - [12/May/2023 14:29:18] "GET /api/data HTTP/1.1" 200 -
```

```
← → ↻ ⓘ 127.0.0.1:5000/api/data

[
  {
    "hobi": "Bertidur",
    "id": 1,
    "jurusan": "Informatika",
    "kelas": "1IA13",
    "nama": "Muhammad Tarmidzi Bariq",
    "npm": "51422161"
  }
]
```

```
← → ↻ ⓘ 127.0.0.1:5000
```

API Ready



Postman interface showing a POST request to `http://127.0.0.1:5000/api/data`. The request body is a JSON object:

```
{  "id": 1,  "nama": "Muhammad Jupri",  "kelas": "11A12",  "npm": "51422151",  "hobi": "Berlari",  "jurusan": "Hukum"}
```

The response status is 200 OK, Time: 7 ms, Size: 312 B. The response body is a JSON object:

```
{  "hobi": "Berlari",  "id": 1,  "jurusan": "Hukum",  "kelas": "11A12",  "nama": "Muhammad Jupri",  "npm": "51422151"}
```

Postman interface showing a GET request to `http://127.0.0.1:5000/api/data`. The response status is 200 OK, Time: 10 ms, Size: 495 B. The response body is a JSON array:

```
[  {    "hobi": "Berlari",    "id": 1,    "jurusan": "Informatika",    "kelas": "11A13",    "nama": "Muhammad Tarmidzi Bariq",    "npm": "51422161"  },  {    "hobi": "Berlari",    "id": 1,    "jurusan": "Hukum",    "kelas": "11A12",    "nama": "Muhammad Jupri",    "npm": "51422151"  }]
```

← → ↻ ⓘ 127.0.0.1:5000/api/data

```
[
  {
    "hobi": "Bertidur",
    "id": 1,
    "jurusan": "Informatika",
    "kelas": "1IA13",
    "nama": "Muhammad Tarmidzi Bariq",
    "npm": "51422161"
  },
  [
    {
      "hobi": "Berlari",
      "id": 1,
      "jurusan": "Hukum",
      "kelas": "1IA12",
      "nama": "Muhammad Jupri",
      "npm": "51422151"
    }
  ]
]
```