

# (FLASK) PYTHON

## Membuat Hello World Dengan Python(FLASK)

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

@applicati.on.route('/')
def index():
    return 'Hello World'
if __name__ == '__main__':
    application.run(debug=True)
```

## Membuat array di python

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

@applicati.on.route('/home', methods=['GET'])
def home():
    array_data = ['rifky','edward','albert','robert','jhon']
    print(array_data)

if __name__ == '__main__':
    application.run(debug=True)
```

## Membuat Template dengan flask python

```
from flask import Flask , render_template

application = Flask(__name__)

@applicati.on.route('/home', methods=['GET'])
def home():
    array_data = ['rifky','edward','albert','robert','jhon']
    return render_template('home.html', rows=array_data)

if __name__ == '__main__':
    application.run(debug=True)
```

## Membuat Json Data dari Array Atau API / Application Programming Interface

```
from flask import Flask , jsonify

application = Flask(__name__)

@applicaiton.route('/')
def index():
    return jsonify([
        {"id": "1", "name": "rifqi", "preferences": "asdasd"},
        {"id": "1", "name": "rifqi", "preferences": "asdasd"},
        {"id": "1", "name": "rifqi", "preferences": "asdasd"}
    ])

if __name__ == '__main__':
    application.run(debug=True)
```

## Menampilkan data dari API External

```
from flask import Flask , jsonify
import requests

application = Flask(__name__)

@applicaiton.route('/list', methods=['GET'])
def lists():
    api_url = 'https://jsonplaceholder.typicode.com/todos'
    try:
        response = requests.get(api_url)
        response.raise_for_status()
        data = response.json()
        return jsonify(data)
    except requests.exceptions.RequestException as e:
        return jsonify({'error': str(e)}), 500

if __name__ == '__main__':
    application.run(debug=True)
```

## Menampilkan Data Array ke HTML

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Home</title>
</head>

<body>
  <h1>Ini Data Dari Array!</h1>
  {% for value in rows %}
  <p>{{ loop.index }} dengan Nama {{value | capitalize }} </p>
  {% endfor %}
</body>

</html>
```

## Menampilkan data dari JSON ke HTML (UPDATED)

```
from flask import Flask , jsonify , request, render_template
import requests
from flask_cors import CORS

application = Flask(__name__)
CORS(application)

@app.route('/list', methods=['GET'])
def lists():
    api_url = 'https://jsonplaceholder.typicode.com/todos'
    try:
        response = requests.get(api_url)
        response.raise_for_status()
        data = response.json()
        if isinstance(data, list):
            return render_template('bacajson.html', rows=data)
        else :
            return jsonify(data)
```

```

    except requests.exceptions.RequestException as e:
        return jsonify({'error': str(e)}), 500

if __name__ == '__main__':
    application.run(debug=True)

```

NEXT()

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Baca JSON Data</title>
</head>

<body>
    <h1>Baca Dari Api !</h1>
    {% for value in rows %}
    <p>{{ loop.index }} dengan Nama {{value.title | capitalize }} </p>
    {% endfor %}
</body>

</html>

```

Menampilkan Media/Image di HTML

```

<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Media</title>
</head>
<body>
    
</body>
</html>

```

## Membuat Logic di Python IF/ELSE

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Logic</title>
</head>
<body>
  {% set nama = "pattra" %}
  {% if nama == "pattra" %}
  <p> Hallo {{ nama }} </p>
  {% else %}
  <p> Tidak Ada Nama </p>
  {% endif %}
</body>
</html>
```

## Import Style.css dan Javascript di Python

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" type="text/css" href="{{url_for('static',
filename='asset/style.css')}}" />
  <title>Logic</title>
</head>
<body>
  {% set nama = "pattra" %}
  {% if nama == "pattra" %}
  <p> Hallo {{ nama }} </p>
  {% else %}
  <p> Tidak Ada Nama </p>
  {% endif %}

  <script src="{{url_for('static',
filename='asset/script.js')}}"></script>
</body>
</html>
```

# SOAL

1. **Buatlah layout dengan meunggunkana css dan javascript yang sudah kita pelajari sebelumnya, dengan model layout seperti materi sebelumnya**
2. **Buatlah Grafik dan Table dengan menggunakan data dari python dan grafik dari materi sebelumnya**