

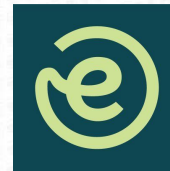
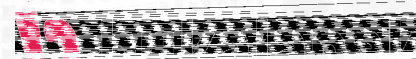
Hi All!



M Ammar Fauzan

Data Manager

EVERM*S



Sistem Informasi
(2014-2018)

Data Scientist
(Sept 2018- August 2020)

Business Intelligence .Mgr
(Sept 2020- Sept 2022)

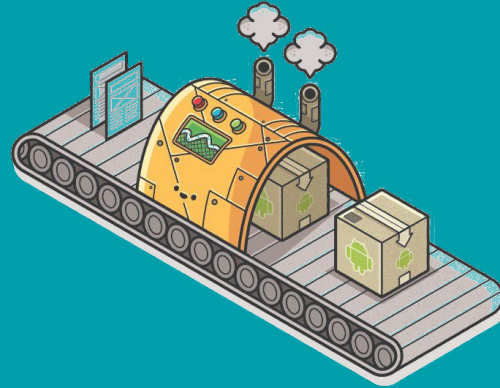
Data Manager
(Sept 2022- Present)



Muhammad Ammar Fauzan

<https://www.linkedin.com/in/muhammad-ammar-fauzan-748883117/>

Module Function Sederhana



“ Pada beberapa kasus kita membutuhkan untuk menyimpan function pada file terpisah dari project jupyter. Hal ini dilakukan agar project menjadi **lebih simple dan rapi.** ”

Snippet Code Import Function

Contoh Code:

```
1 from myfunction import calculator
```

```
1 calculator(x = 10, y= 20, metode='perkalian')
```

200

Snippet Code Import Function

```

1  def calculator(x, y, metode='penjumlahan'):
2      """
3      Objective
4      Function Calculator for basic arithmetic 2 variable number
5
6      Arguments:
7      - x = first number, type integer
8      - y = second number, type integer
9      - metode = (default 'penjumlahan'),
10         expected values: [penjumlahan, pengurangan, pembagian, perkalian, pangkat]
11
12     """
13
14     metode = metode.lower()
15     if metode == 'penjumlahan':
16         result = x+y
17     elif metode == 'pengurangan':
18         result = x-y
19     elif metode == 'pembagian':
20         result = x/y
21     elif metode == 'perkalian':
22         result = x*y
23     elif metode == 'pangkat':
24         result = x**y
25     else:
26         result = '-'
27         print('Inputan tidak sesuai!')
28     return result

```

Step by step

1. Membuat kode program function pada suatu file **berformat .py** di Python Script Editor
2. file disimpan 1 folder atau folder berbeda dengan project .ipynb

Snippet Code Import Function

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Step by step

1. Membuat kode program function pada suatu file **berformat .py** di Python Script Editor
2. file disimpan 1 folder atau folder berbeda dengan project .ipynb
3. Tambahkan **DocStrings** pada statement pertama header line function. Berfungsi untuk memudahkan memahami context function saat akan digunakan.

Manfaat Docstrings

Signature: `calculator(x, y, metode='penjumlahan')`

Docstring:

Objective

Function Calculator for basic arithmetic 2 variable number

Arguments:

- x = first number, type integer
- y = second number, type integer
- metode = (default 'penjumlahan'),
expected values: [penjumlahan, pengurangan, pembagian,
perkalian, pangkat]

File:

c:\users\user\evdata\project\rakamin\myfunction.py

Type: function

Manfaat Docstring untuk memudahkan memahami penggunaan function

Cara mengimport Function

Contoh Code:

1

```
1 from myfunction import calculator
```

```
1 calculator(x = 10, y= 20, metode='perkalian')
```

200

FOLDERS	
▼ folder Rakamin	➤
▶ folder exercise	➤
/* myfunction.py	➤
/* Python Programming IV - Rakamin Academy	➤

Path

from <nama file> import <nama function>

Cara mengimport Function

Contoh Code:

1

```
1 from myfunction import calculator
```

```
1 calculator(x = 10, y= 20, metode='perkalian')
```

200

2

```
1 import myfunction as mf
```

```
1 mf.calculator(x = 10, y= 20, metode='perkalian')
```

200

FOLDERS	
▼	Rakamin
▶	exercise
/*	myfunction.py
/*	Python Programming IV - Rakamin Academy

Path

from <nama file> import <nama function>

Path

import <nama file>

Memungkinkan untuk berbeda directory #1

Contoh Code:

```
1 from exercise.myfunction_special import calculator
```

```
1 calculator(x = 10, y= 20, metode='penjumlahan')
```

```
30
```

Path

from <nama folder1>.<nama file> import <nama function>

FOLDERS

▼	Rakamin	➤
▶	exercise	➤
	/* myfunction.py	➤
	/* Python Programming IV - Rakamin Academy	➤

Memungkinkan untuk berbeda directory #2

Contoh Code:

```
1 import exercise.myfunction_special as ms
```







```
1 ms.calculator(x = 10, y= 20, metode='penjumlahan')
```

30

Path

import <nama folder1>.<nama file>

FOLDERS

- ▼  Rakamin 
- ▶  exercise 
- /* myfunction.py 
- /* Python Programming IV - Rakamin Academy 

Memungkinkan untuk berbeda directory #3

Contoh Code:

```
1 import sys
2 sys.path.append('C:/Users/User/EVDATA/Project')

1 import myfunction_exercise

1 myfunction_exercise.calculator(x = 10, y= 20, metode='penjumlahan')
```

30

Step by Step

- Menggunakan package sys (path dan append) → Untuk membuat terhubung dengan directory tempat module telah dibuat
- import <Nama Function>

Lebih dari 1 Function dalam 1 File

Contoh Code:

```

myfunction.py
1 def calculator(x, y, metode='penjumlahan'): ...
28
29 def calculator_super(x, y, z=None, metode='penjumlahan'): ...
57

```

```

1 import myfunction as mf

1 mf.calculator(10, 20, 30)

60 f calculator      function
   f calculator_super function

```

Contoh case implementasi module

Contoh Code:

```

1 from connectEVM import queryR
2 import pandas as pd

1 q = '''
2     SELECT
3         city,
4         count(distinct user_id) as total_reseller
5     FROM dbt_prod.gross_reseller
6     WHERE city is not null
7     GROUP BY 1
8     ORDER BY 2 DESC
9     LIMIT 10
10 '''
11
12 df_user = queryR(q)
13 df_user

```

Connecting to the database . . .
 Debug1
 Connected to Redshift

	city	total_reseller
0	Kota Bandung	
1	Kabupaten Bogor	
2	Kabupaten Bandung	
3	Kota Jakarta Timur	
4	Kabupaten Sleman	



Danke Schön!



Muhammad Ammar Fauzan

<https://www.linkedin.com/in/muhammad-ammar-fauzan-748883117/>