



# Tugas Algoritma & Struktur Data

TUGAS – FUNGSI

NANDANG DURYAT – 312310233 (TI.23.C4)

## Tugas Algoritma & Struktur Data

Nandang Duryat – 312310233  
TI.23.C4

Dosen Muhammad Fatchan, S.Kom., M.Kom., MTCNA.

Sabtu, 18-Nov-23

Pertemuan ke 9

### **Tugas – Fungsi**

IDE, Console & Debugger : VSCode

Operating System : Windows 10 pro

## Tugas Fungsi

Coba jalankan fungsi yang ada di slide materi Pertemuan 9

### Kode Python

```
from math import *

def slide(x):
    print("\n")
    print("Slide", x)
    print("#=====")

#=====
#slide 2
slide("2")
print("Hello, UPB!") # calls print() function

#=====
#slide 3
slide("3")
print(ceil(99.23))
print(pow(5,3))
print(factorial(6))

#=====
#slide 4
# compute factorial of 3
slide("4")
result = 1
for i in range(1,4):
    result *= i
print("Factorial of", 3, "is", result)

# compute factorial of 4
result = 1
for i in range(1,5):
    result *= i
print("Factorial of", 4, "is", result)

#=====
#slide 6, 7
slide("6, 7")
def my_factorial(n): # function signature
```

```
# function body
result = 1
for i in range(1,n+1):
    result *= i
return result
print(my_factorial(2))

#=====
#slide 8, 9, 10
slide("8, 9, 10")
def hi(kota):
    print("Hi, " + kota + "!")
hi("Karawang")

#=====
#slide 11, 12
slide("11, 12")
def hi_fitri():
    name = "Nandur"
    print("Hi, " + name + "!")

hi_fitri()
```

## Gambar Syntax

```

1  from math import *
2
3  def slide(x):
4      print("\n")
5      print("Slide", x)
6      print("#=====")
7
8  #=====
9  #slide 2
10 slide("2")
11 print("Hello, UPB!") # calls print() function
12
13 #=====
14 #slide 3
15 slide("3")
16 print(ceil(99.23))
17 print(pow(5,3))
18 print(factorial(6))
19
20 #=====
21 #slide 4
22 # compute factorial of 3
23 slide("4")
24 result = 1
25 for i in range(1,4):
26     result *= i
27 print("Factorial of", 3, "is", result)
28
29 # compute factorial of 4
30 result = 1
31 for i in range(1,5):
32     result *= i
33 print("Factorial of", 4, "is", result)
34
35 #=====
36 #slide 6, 7
37 slide("6, 7")
38 def my_factorial(n): # function signature
39     # function body
40     result = 1
41     for i in range(1,n+1):
42         result *= i
43     return result
44 print(my_factorial(2))
45
46 #=====
47 #slide 8, 9, 10
48 slide("8, 9, 10")
49 def hi(kota):
50     print("Hi, " + kota + "!")
51 hi("Karawang")
52
53 #=====
54 #slide 11, 12
55 slide("11, 12")
56 def hi_fitri():
57     name = "Nandur"
58     print("Hi, " + name + "!")
59
60 hi_fitri()
61

```

## Output Console



```
OUTPUT  TERMINAL  PORTS  GITLENS  COMMENTS  DEBUG CONSOLE  PROBLEMS  Code + - [ ] [X]
PS D:\kullian\UPB> python -u d:\kullian\UPB\Algoritma dan Struktur Data\pertemuan 9\ugas\tungs1.py

Slide 2
#=====
Hello, UPB!

Slide 3
#=====
100
125.0
720

Slide 4
#=====
Factorial of 3 is 6
Factorial of 4 is 24

Slide 6, 7
#=====
2

Slide 8, 9, 10
#=====
Hi, Karawang!

Slide 11, 12
#=====
Hi, Nandur!
```