Tugas Algoritma & Struktur Data

TUGAS – FUNGSI

NANDANG DURYAT – 312310233 (TI.23.C4)

Tugas Algoritma & Struktur Data

Nandang Duryat – 312310233
TI.23.C4

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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

```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
```

```python
    # 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

```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))
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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):
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print("Factorial of", 4, "is", result)

#==========================
#slide 6, 7
slide("6, 7")
def my_factorial(n): # function signature
    # function body
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#slide 8, 9, 10
slide("8, 9, 10")
def hi(kota):
    print("Hi, " + kota + "!")
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#==========================
#slide 11, 12
slide("11, 12")
def hi_fitri():
    name = "Nandur"
    print("Hi, " + name + "!")

hi_fitri()
```

Output Console

```
OUTPUT    TERMINAL    PORTS    GITLENS    COMMENTS    DEBUG CONSOLE    PROBLEMS                    >_ Code  + ∨  ⊓  🗑

PS D:\Kuliah\UPB> python -u  d:\Kuliah\UPB\Algoritma Dan Struktur Data\Pertemuan 9\Tugas\fungsi.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!
```