

MOCHAMAD RAFFLI ISPRIYANTO (PYTN-KS-010)

INI ADALAH NOTEBOOK PERTAMA SAYA

```
print('Hello World')
```

```
    Hello World
```

TIPE DATA TUNGGAL

```
type(0.1)
```

```
    float
```

```
type(787)
```

```
    int
```

```
print(8+8j)
```

```
    (8+8j)
```

```
type(1-9j)
```

```
    complex
```

VARIABEL

```
a = 100
```

```
b = 1
```

```
a
```

```
b
```

```
    1
```

```
a, b
```

```
    (100, 1)
```

```
c = d = 33
```

```
c, d
```

```
(33, 33)
```

TIPE VARIABEL PADA PYTHON

```
var = 3.1  
print(var)
```

```
var = 'Saya Suka Makan Sapi'  
print(var)
```

```
3.1  
Saya Suka Makan Sapi
```

NAMA VARIABEL

```
nama = 'Mochamad Raffli Ispriyanto'  
umur = 20  
punya_laptop = True  
print(nama, umur, punya_laptop)
```

```
Mochamad Raffli Ispriyanto 20 True
```

OPERASI PADA EKSPRESI PADA PYTHON

```
x = 10  
y = 2
```

```
print(x+y)  
print(x-y)  
print(x*y)  
print(x/y)  
print(x%y)  
print(x**y)  
print(x//y)
```

```
12  
8  
20  
5.0  
0  
100  
5
```

OPERASI PERBANDINGAN

```
a = 100  
b = 10
```

```
print(a==b)  
print(a!=b)  
print(a>=b)  
print(a<=b)
```

```
False  
True  
True  
False
```

```
a = 100  
b = 100
```

```
print(a==b)  
print(a!=b)  
print(a>=b)  
print(a<=b)
```

```
True  
False  
True  
True
```

MANIPULASI STRING

```
a = 'indo'  
b = 'nesia'  
print(a+b)
```

```
indonesia
```

```
print('Indonesia ' + 'Maju')
```

```
Indonesia Maju
```

```
x = 'merdeka '  
x*3
```

```
'merdeka merdeka merdeka '
```

```
x = 'merdeka'
print(x in 'merdeka atau mati')
print(x in 'mereka harus mati')

True
False
```

```
x = 'iNdOnesiA merDeKA'
print(x.capitalize())
print(x.lower())
print(x.upper())
print(x.title())
print(x.swapcase())
```

```
Indonesia merdeka
indonesia merdeka
INDONESIA MERDEKA
Indonesia Merdeka
InDOnESiA MERdEka
```

LIST DALAM PYTHON

```
x = ['indo','nesia','mer','deka']
x

['indo', 'nesia', 'mer', 'deka']
```

```
x = ['indo','nesia','mer','deka']
y = ['mer','deka','indo','nesia']

x==y
```

```
False
```

```
a = ['Python',2.1,3,True,2.341]
a

['Python', 2.1, 3, True, 2.341]
```

```
x = ['indo','nesia','mer','deka']
print(x[0])
print(x[2])

indo
mer
```

```
x = ['indo','nesia','mer','deka']
```

```
print(x[-1])
print(x[-3])
```

```
deka
nesia
```

```
x = ['indo','nesia','mer','deka']
print(x[0:3])
```

```
['indo', 'nesia', 'mer']
```

```
x = ['indo','nesia','mer','deka']
print(x)
print(x + ['77','tahun'])
print(x*3)
```

```
['indo', 'nesia', 'mer', 'deka']
['indo', 'nesia', 'mer', 'deka', '77', 'tahun']
['indo', 'nesia', 'mer', 'deka', 'indo', 'nesia', 'mer', 'deka', 'indo', 'nesia', 'mer',
```



```
x = ['indo','nesia','mer','deka']
print(len(x))
print(min(x))
print(max(x))
```

```
4
deka
nesia
```

```
x = ['indo','nesia','mer','deka']
x[-1] = 90
x[0] = 12
x
```

```
[12, 'nesia', 'mer', 90]
```

```
x = ['indo','nesia','mer','deka']
del(x[-1])
x
```

```
['indo', 'nesia', 'mer']
```

```
x = ['indo','nesia','mer','deka']
print(x[0:3])
x[0:3] = [1, True, 'Data Sains']
print(x)
```

```
['indo', 'nesia', 'mer']  
[1, True, 'Data Sains', 'deka']
```

TUPLE DALAM PYTHON

```
x = ('indo', 'nesia', 'mer', 'deka')  
x  
  
('indo', 'nesia', 'mer', 'deka')  
  
print(x[-1])  
print(x[-3])  
  
deka  
nesia  
  
(s1, s2, s3, s4) = ('indo', 'nesia', 'mer', 'deka')  
s3  
  
'mer'
```

DICTIONARY DALAM PYTHON

```
jadwal_kuliah = {  
    'senin' : 'Analisis Real 1',  
    'selasa' : 'Kecerdasan Buatan',  
    'rabu' : 'Matematika Diskrit',  
    'kamis' : 'Riset Operasi',  
    'jumat' : 'Data Sains'  
}  
  
print(jadwal_kuliah['selasa'])  
  
Kecerdasan Buatan  
  
jadwal_kuliah['sabtu'] = 'Libur'  
jadwal_kuliah  
  
{'senin': 'Analisis Real 1',  
 'selasa': 'Kecerdasan Buatan',  
 'rabu': 'Matematika Diskrit',  
 'kamis': 'Riset Operasi',  
 'jumat': 'Data Sains',  
 'sabtu': 'Libur'}  
  
jadwal_kuliah['kamis'] = 'Kewirausahaan'
```

```
jadwal_kuliah
```

```
{'senin': 'Analisis Real 1',  
 'selasa': 'Kecerdasan Buatan',  
 'rabu': 'Matematika Diskrit',  
 'kamis': 'Kewirausahaan',  
 'jumat': 'Data Sains',  
 'sabtu': 'Libur'}
```

```
hewan = {}  
type(hewan)
```

```
hewan['darat'] = 'kucing'  
hewan['laut'] = ['ikan', 'cumi', 'udang']
```

```
hewan
```

```
{'darat': 'kucing', 'laut': ['ikan', 'cumi', 'udang']}
```

```
{'darat' : 'kucing',  
 'laut' : ['ikan', 'cumi', 'udang']  
}
```

```
{'darat': 'kucing', 'laut': ['ikan', 'cumi', 'udang']}
```

```
print(hewan['darat'])  
print(hewan['laut'])
```

```
kucing  
['ikan', 'cumi', 'udang']
```

```
print(hewan['laut'][2])
```

```
udang
```

```
harga = {'esth':3000, 'nasi kare':5000, 'tempe':500}
```

```
print(harga.items())  
print(harga.keys())  
print(harga.values())
```

```
dict_items([('esth', 3000), ('nasi kare', 5000), ('tempe', 500)])  
dict_keys(['esth', 'nasi kare', 'tempe'])  
dict_values([3000, 5000, 500])
```

KELANJUTAN BARIS

```
umur_1 = 16  
umur_2 = 35  
umur_3 = 54
```

```
produktif = (umur_1 >= 18 and umur_1 <= 65) or (umur_2 >= 18 and umur_2 <= 65) or (umur_3 >=  
produktif
```

```
True
```

