Introduction to Python

Gentle introduction for beginner Python

Pondok Mahasiswa, Malang 2018.

Azzam Syawqi Aziz

me@azzamsa.com
azzamsa.com

YAK SHAVING

Install

Setup

Installing Python on Windows

Get the installer from
python.org/downloads/windows/

Installing Python on GNU/Linux

It’s already installed 😎

Setup

SETUP

BASIC

Printing

Printing

```
1 print ”Hallo, Pondok Mahasiswa”
```

Comment

```
1 print ”Hallo Pondok Mahasiswa”
2 # I am comment :)
```

Math

```
1 print 10 + 2 - 3 / 6 * 7
2 # more %, <, >, <=, >=
```

Variables & More Printing

```
1  nama = "Budi"
2  umur = 10
3  tinggi_badan = 30
4  berat_badan = 50.2
5
6  print "umur saya :", umur
7  print "nama saya : %s" % nama
8  print "saya %s, umur saya %d tahun, berat
   ↪  badan saya %0.2f" % (nama, umur,
   ↪  berat_badan)
```

Function

```
1 def penjumlahan(x, y):
2     print ”hasil penjumlahan : %d” % (x + y)
3
4 penjumlahan(2, 3)
```

Function & Return Value

```
1  def penjumlahan(x, y):
2      return x + y
3
4  def perkalian(x, y):
5      return x * y
6
7  hasil_jumlah = penjumlahan(2, 3)
8  hasil_kali = perkalian(10, 2)
9
10 print "Hasil penjumlahan : %d dan Hasil
   ↪  perkalian : %d " % (hasil_jumlah,
   ↪  hasil_kali)
```

Prompting

```
1 nama = raw_input("siapa nama anda ?")
2 umur = int(raw_input("berapa umur anda ?"))
3
4 print "Hai, %s. Anda berumur %d tahun" %
  ↪ (nama, umur)
5 # what is int(), str(), .. ?
```

Make Decision

```
1  def hitung_jarak(km):
2      if km > 50:
3          print ”sangat jauh”
4      elif km == 50:
5          print ”cukup jauh”
6      elif km == 30:
7          print ”sedang”
8      else:
9          print ”dekat”
10
11 hitung_jarak(10)
```

Loop & List

```
1  santri = ["ahmad", "imam", "umar", "ali"]
2
3  for anak in santri:
4      print "nama santri %s" % anak
5
6  # what about while-loop ?
```

Dictionary

```
1  data_santri = {'nama': 'ahmad', 'umur': 40,
   ↪  'tinggi_badan': 10+10}
2
3  print data_santri['nama']
4  print data_santri['umur']
5  print data_santri['tinggi_badan']
```

It’s just *gentle* introduction

keep learning.

QUESTION ?