**Python for absolute beginners**

* Untuk install python dalam windows – type : *python -m pip install*
* IDE – Integrated Development Environment

**Int**

>>> int ("6") + int ("5")

11

>>> 6 + 5

11

**String**

>>> “5” + “6”

56

String – “ “, ‘ ‘

**Gabung dua ayat**

error

>>>"This cost" + 6 + "Bucks"

Correct

>>>"This cost" + str(6) + "Bucks"

**Pisah ayat**

>>> "Hello: Nick: World".split(":")

['Hello', ' Nick ', ' World']

>>> "My name is " + "Hello: Nick : World".split(":") [1]

'My name is Nick '

**Boolean**

>>>True

True

>>> 5 == 5

True

>>> True is True

True

>>> "True" is True

False

>>> "True" is str(True)

True

**List [ ]**

>>> ["Movies", "Games", "Aida"]

['Movies', 'Games', 'Aida']

-list with 3 indexs

>>> ["Movies", "Games", "Aida"] [1]

'Games'

>>> print ("I like" + ["Movies", "Games", "Aida"] [2])

I likeAida

>>> print ("I like" + ["Movies", "22", "Aida"] [1])

I like22

**Dictionaries { }**

>>> {"name": "Nick", "Age": 27, "Hobby" : "code"}

{'name': 'Nick', 'Age': 27, 'Hobby': 'code'}

>>> {"name": "Nick", "Age": 27, "Hobby" : "code"}['Age']

27

**Build in function**

>>> print ("Hi")

Hi

>>> str (5)

'5'

>> str (5.6)

'5.6'

>>> str (True)

'True'

>>> int ("5")

5

>>> float ("5.7")

5.7

>>> bool ("True")

True

>>> len ("Annyeong")

8

>>> len ([1,2,3,4,5,6])

6

>>> len (["aida", "yana"])

2

**Defined function**

def my\_function ():

-def – define function

-my\_function – name of the function

-() – parameter of the function

def my\_function():  
 print ("This is mine!")  
 print ("You too")  
  
my\_function()

**Argument**

def my\_function(str1, str2):  
 print (str1)  
 print (str2)  
  
my\_function(" This is me", "Im the problem")  
my\_function("Hi", "My name is yvonne")

def print\_next(name,age):  
 print("My name is" + name + "and my age is" + str(age))  
  
print\_next(" aida ",23)

age kena ada string sbb dia bukan int

def print\_next(name,age):  
 print("My name is" , name , "and my age is" , age)  
  
print\_next(" aida ",23)

My name is aida and my age is 23

yang ni xperlu tulis str sbb dia comma

#argument  
def print\_next(name = "Somenone",age = "Unknown"):  
 print("My name is" , name , "and my age is" , age)  
print\_next(" aida ")

My name is aida and my age is Unknown

#argument  
def print\_next(name = "Someone",age = "Unknown"):  
 print("My name is" , name , "and my age is" , age)  
print\_next(27)

My name is 27 and my age is Unknown

-salah

#argument  
def print\_next(name = "Someone",age = "Unknown"):  
 print("My name is" , name , "and my age is" , age)  
print\_next(age =27)

My name is Someone and my age is 27

-btul

#argument (betul)  
def print\_next(name = "Someone",age = "Unknown"):  
 print("My name is" , name , "and my age is" , age)  
print\_next(age =27, name="mira")

My name is mira and my age is 27

-wpun kedudukan lain, blh baca

# guna \* dimana ia bagitahu yang argument tu adalah array untuk smua argument dlm fx  
def print\_people(\*people):  
 for person in people:  
 print("This person is", person)  
  
print\_people("Nick","Dan", "Jack", "King", "Smiley")

This person is Nick

This person is Dan

This person is Jack

This person is King

This person is Smiley

-Dia baca smua nama tu

#return values  
def do\_math(num1, num2):  
 return num1+num2  
  
math1 = do\_math(5, 6)  
math2 = do\_math(11,11)  
  
print("First sum is", math1,"and the second sum is", math2)

First sum is 11 and the second sum is 22

-dia kira total dia. Macam code argument tadi

**If else**

#if-else statement  
check = "Hamburger"  
if check == False:  
 print("It is false")  
elif check == "Hamburger":  
 print("Yeayyy,burger")  
elif check =="Yo":  
 print("Holla")  
else:  
 print("It is actually equal to True")

Yeayyy,burger

-klu sama dngn check tu, dia akan print apa yg dicheck tu. Klu x..dia print else

**Loops**

#Loops  
numbers =[1,2,3,4,5]  
for item in numbers:  
 print(item)

1

2

3

4

5

-dia print smua

#Loops  
numbers =["Aida","Mae", "Aimy", "Maya", 2]  
for item in numbers:  
 print("this is",item)

this is Aida

this is Mae

this is Aimy

this is Maya

this is 2

-numbers =array for the list

-item = bnda yang kita nk panggil

#while  
run = True  
current = 1  
while run:  
 if current == 10:  
 run = False  
 else:  
 print(current)  
 current +=1

* Dia akan print : 1,2,3,4,5,6,7,8,9
* Dia skrng 1, so dia tngok bukan 10, so dia g dkt else. Pstu dkt else, dia increment 1 stiap kali dia lalu, so nom dia dr 1 tadi dh jd 2 and so on. Bila dh smpi 10, dia stop loop tu

**string = "'I AM OK'.she said"**

**print(string)**

**'I AM OK'.she said**

**new = re.sub('[A-Z]','', string)**

**print(string)**

**'I AM OK'.she said**

**print(new)**

**' '.she said**

**string = string + "iiiii"**

**print(string)**

**'I AM OK'.she saidiiiii**

* Blh tambah string
* Boleh remove huruf kita tak nak guna re.sub

**Final Project (Calculator)**

import re  
  
print("Our Magical Calculator")  
print("Type 'quit' to exit\n")  
  
#hold the result fo the previous calculated equation  
previous = 0  
run = True  
  
#define function  
def performMath():  
 #kita masukkan global, and nama global variabke (run) yang kita try nak access  
 global run  
 #grab access from previous global variable  
 global previous  
 equation = ""  
 if previous == 0:  
 equation = input ("Enter equation:")  
 else:  
 equation = input(str(previous))  
  
  
 if equation == 'quit':  
 print("Thank you")  
 run = False  
 else:  
 #masukkan variable baru untuk exclude bnda slain nom sbb takut eval evaluate smua  
 equation = re.sub('[a-zA-Z,.:()" "]', '', equation)  
  
 if previous == 0:  
 # eval tu guna utk kira kita punya math  
 previous = eval(equation)  
 else:  
 previous = eval(str(previous) + equation)  
  
  
while run:  
 performMath()