

# Python Basic Operation

By Sendi Novianto



# Sendi Novianto



## Detail Information:

- S1 – Dian Nuswantoro
- S2 – ITS
- S3 – SCUT ( South China University of Technology)
- Dosen Aktif Universitas Dian Nuswantoro
- **Bidang Penelitian:**
  - Game Technology
  - Artificial Intelligent
  - Image Processing
  - Pattern Recognition
  - IOT



**Admin : Galang Rambu Anarki S.Kom**



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01

String

Print('Hello World')

'Hello World'

"Hello Word"

'He's a good guy'

'He\'s a good guy'

"He's a good guy"

"He is a "good" guy "

"He is a \"good\" guy "



# 02 Print



**Ini Ibu Budi**  
**Ibu Budi Sedang Ke Pasar**

**Ini Bapak Budi**  
**Bapak Budi Sedang Bekerja**

**Ini Ibu Budi Ibu Budi Sedang Ke Pasar**

**Ini Bapak Budi Bapak Budi Sedang Bekerja**



**Ini Ibu Budi  
Ibu Budi Sedang Ke Pasar**

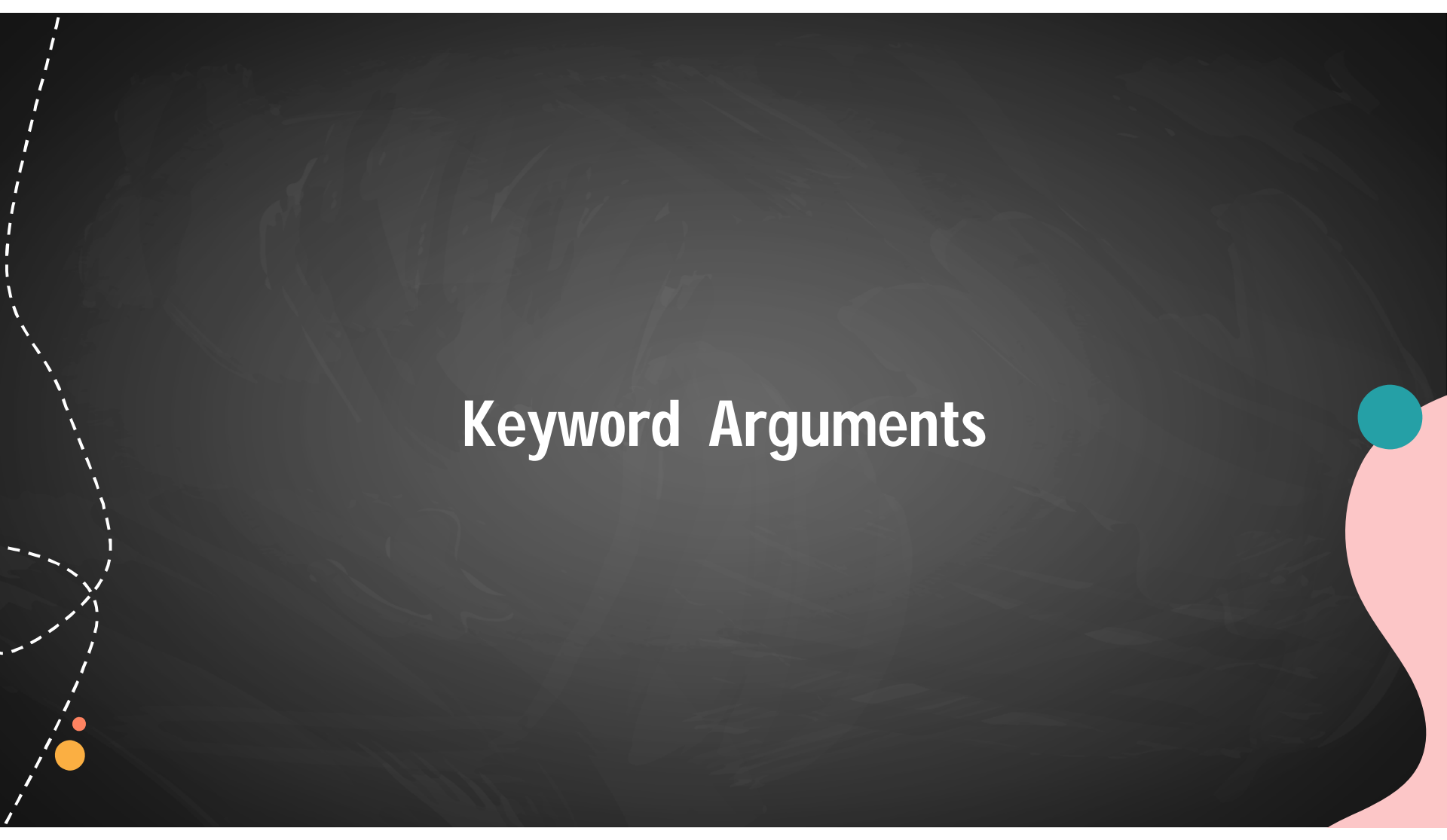
**Ini Bapak Budi  
Bapak Budi Sedang Bekerja**





**Print dengan multi arguments**

# Keyword Arguments

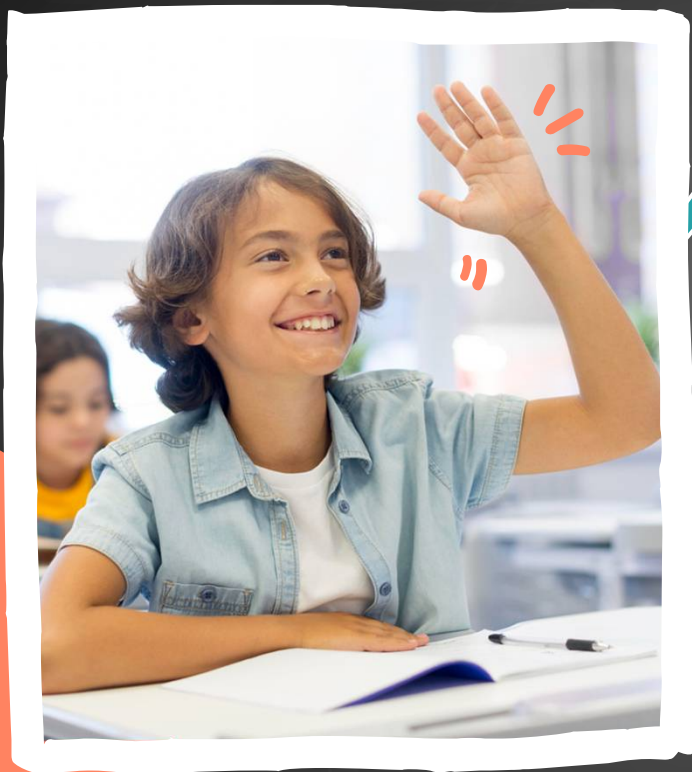


# Tugas : Belajar\*\*\*Pemrograman\*\*\*Bahasa...Python

```
" I' m"  
" " Belajar" "  
" " Bahasa**Python" "
```

# Tugas





03

## Boolean Values



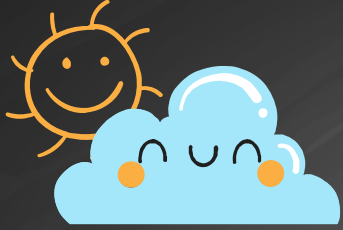
True / False

The image features a dark gray, textured background with a large, irregular brushstroke shape in the center. The text "True / False" is written in white, bold, sans-serif font across the middle of this brushstroke. Surrounding the central area are several colorful, cartoonish illustrations: a blue cloud in the top left, a smiling sun behind a blue cloud with two orange dots, a red heart with a face and a string in the top right, a teal and light blue abstract shape in the top right corner, a pink circle with a string in the bottom left, and two small orange and red dots in the bottom right.

04

# Variabels

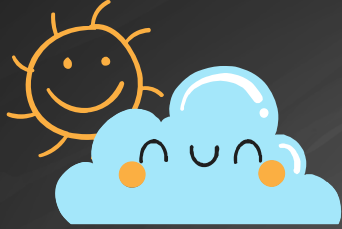




# Tidak Boleh Memakai kata Kunci Yang ada di Python

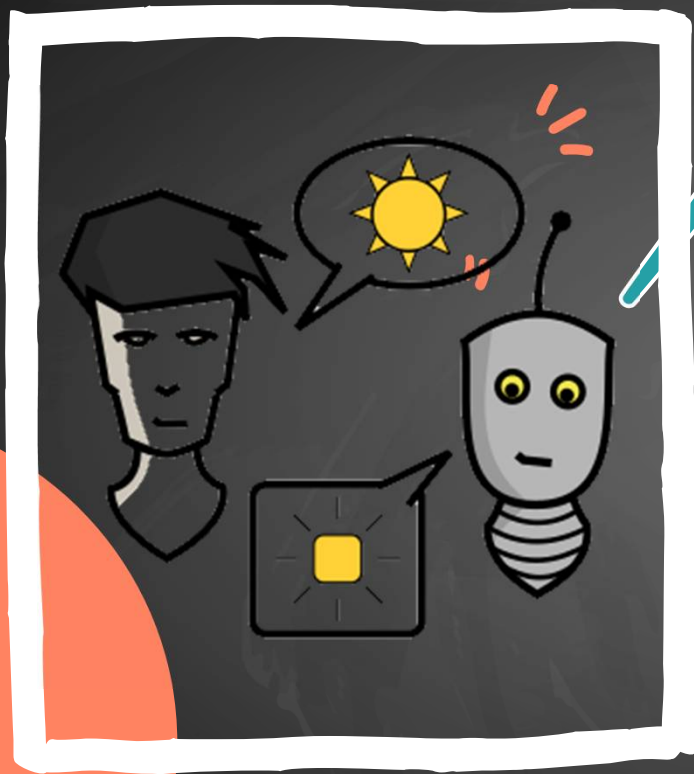






Ibu membeli apel 10 buah, kemudian dalam perjalanan, apelnya jatuh 2, lalu karena lapar, ibu memakan apelnya 4, berapa sisa apel yang dibawa pulang ibu ?





05

# Shortcut Operators

$x = x * 2 \rightarrow x *= 2$

$b = b + 1 \rightarrow b += 1$

$c = c / 3 \rightarrow c /= 3$

$d = d \% 10 \rightarrow d \% = 10$

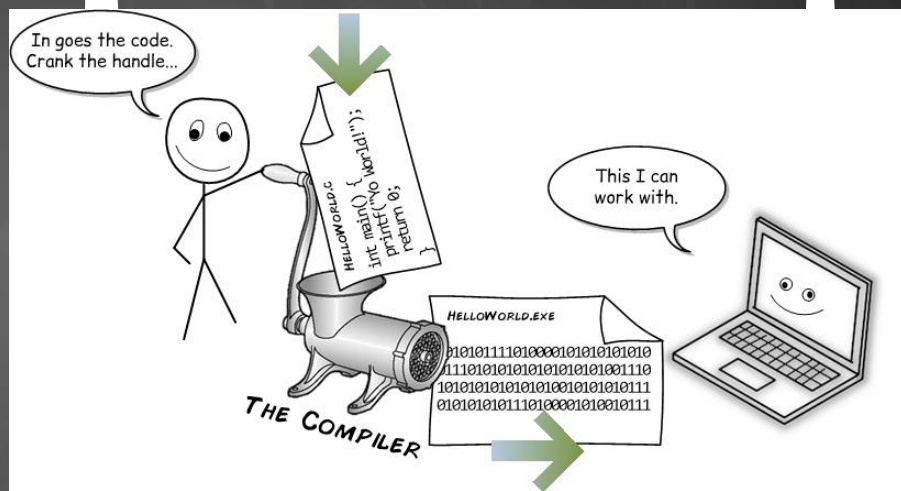
$j = j - 1(i + var + rem) \rightarrow j -= (i + var + rem)$

$x = x ** 2 \rightarrow x ** = 2$



06

# Comments





**# ini adalah komentar**



07

Input

# Input Devices



Touch screen

Camera



Scanner



Joystick



Microphone



Mouse



Keyboard



Web cam



Track ball



## Tugas

$$3x^9 + 2x^8 - 10x^2 + 100$$

Selesaikan dengan variable  
Serta jadikan x sebagai  
inputan nilai dan keluarkan  
hasil dari perhitungan rumus  
tersebut



08

# Type Casting

int ← float

```
int number;  
float fval= 32.33f;  
number= (int)fval;
```

Type in which you  
want to convert

Variable name  
Which you want to convert



# Solusi input dengan hasil selain string





09

## String Operator



**String1+String2**

**String1, String2**



10

# Replication



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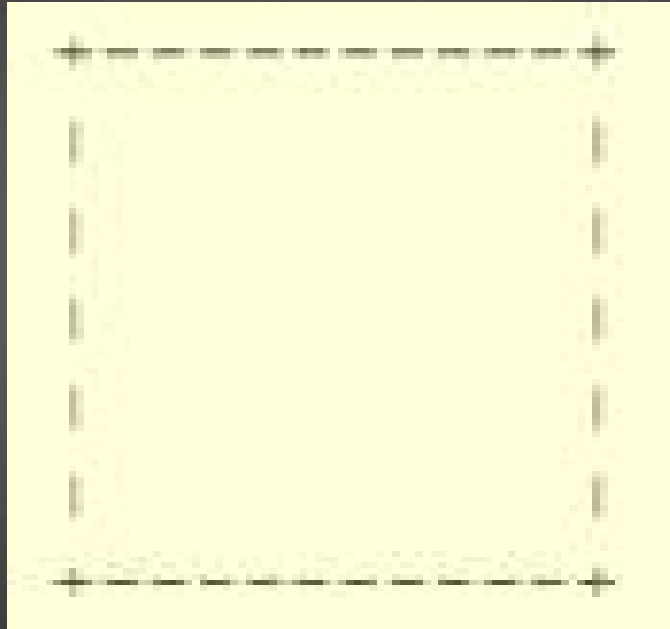


String \* Number

Number \* String



# Tugas





11

Type Conversion : `str()`





**Int / float → string**



## Tugas

$$\frac{1}{x + \frac{1}{x + \frac{1}{x + \frac{1}{x}}}}$$

Jadikan x sebagai  
inputan  
Lalu cektak hasilnya

# Tugas

Input1 = Jam Mulai

Input 2 = Menit Mulai

Input 3 = Durasi (dalam Menit)

Output = jam:menit (setelah ditambah dengan durasi)

# Contact

## **Sendi Novianto**

Bidang minat utama : game technology, Artificial Intelligence, Image Processing, Pattern Recognition, IOT

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**Thank You!**