





Hello! I am Agil Haykal



I am a Data expert with extensive experience in multiple industries such as marketplace, insurance, banking, general taxation, consulting, and training.

In total, I trained more than 300 data scientists, engineers, and analysts.







Paradox of the Day



Cowok selalu salah dan cewek selalu benar

Jadi kalau cowok bilang:
"Cewek itu selalu benar".
Apakah cowok salah?





Table of Content What will We Learn Today?

- 1. Introduction to Condition
- 2. Flowchart or conditions
- 3. If Statement
- 4. Nested If







Conditional Statement

Conditional Statement is a statement that achieved by selectively **choosing condition** based on True or False.

- If Statement
- If Else Statement
- Elif Statement

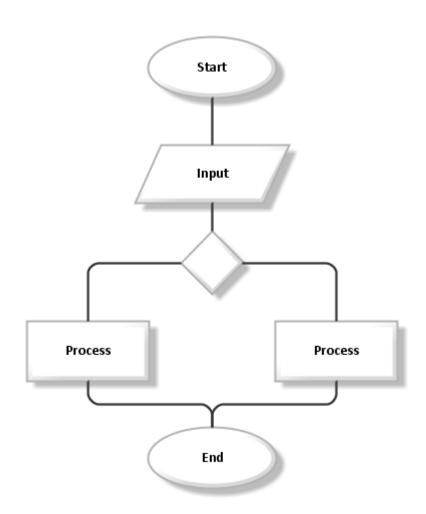






Pseudocode is a plain language description of the steps in an algorithm or another system. Usually the proper way to express pseudocode is by Flowchart.

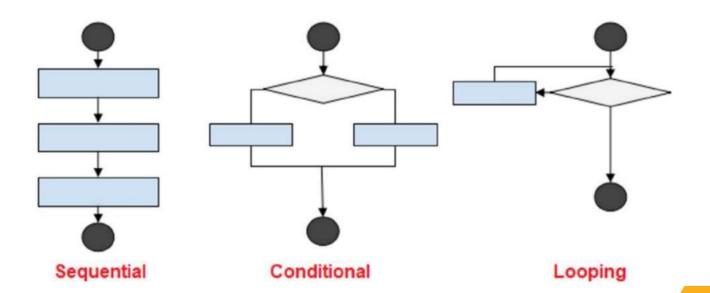
Flowchart is a diagram of the sequence of movements or actions of people or things involved in a complex system or activity.







- Control Flow is the order in which the program's code executes.
- The control flow of a python is regulated by conditional statements, loops, and function calls.
- Python has 3 types of control structure.



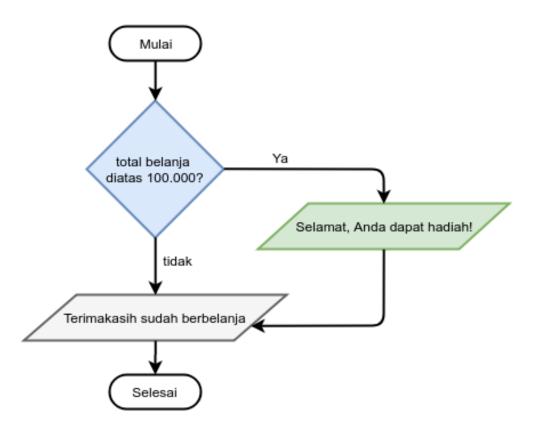






"Selamat, Anda dapat hadiah!"

"Terima kasih sudah berbelanja"







Conditions in Python

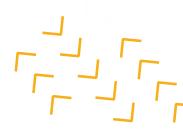
In Python, the if statement is how you perform this sort of decision-making.

- It contains a code which runs only when the condition given in the if statement is true.
- If the condition is false, then the optional else statement runs which contains some code for the else condition.

```
if <expression> <statement A>
```

else

<statement B>







Conditions in Python

Python supports the logical conditions from mathematics:

- Equals: a == b
- Not Equals: a != b
- Less than: a < b
- Less than or equal to: a <= b
- Greater than: a > b
- Greater than or equal to: a >= b

And also, here is the logical operators that can be used:

- True if both the operands are true: and
- True if either of the operands is true: or
- True if operand is false (complements the operand): not









An **if statement** consists of a boolean (True or False) expression followed by one or more statements.

.:. If **True**, then run command inside it

```
x = 5
if x == 5:
    print('You are Right')
```

You are Right

.:. If **False**, then run nothing

```
x = 4
if x == 5:
    print('You are Right')
```

.:. A statement can have 2 or more condition

```
x = 8
if (x > 5) and (x < 10):
    print('You are Right')</pre>
```

You are Right







An if statement can be followed by an optional **else statement**.

.:. If first statement **True**, then run command inside it

```
x = 5
if x == 5:
    print('You are Right')
else:
    print('You are Wrong')

You are Right
```

.:. If first statement False, then run second command

```
x = 4
if x == 5:
    print('You are Right')
else:
    print('You are Wrong')
```

You are Wrong







An else statement can be **combined** with an if statement.

.:. If first statement **True**, then run command inside it

```
x = 4
if x == 5:
    print('You are Right')
elif x < 5:
    print('Smaller than five')
else:
    print('Bigger than five')</pre>
```

Smaller than five







Nested if is a combination of 2 or more conditional statement.

Note:

Make sure not to leave any blank or missing condition.

```
if x > 20:
    print("Above twenty, ")
    if x > 40:
        print("and also above 40")
    else:
        print("but not above 20")
else:
    print("Below twenty")
Output: Above twenty, and also above 40
```



Thank YOU

