

sel

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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
 - o Pattern Recognition
 - o IOT



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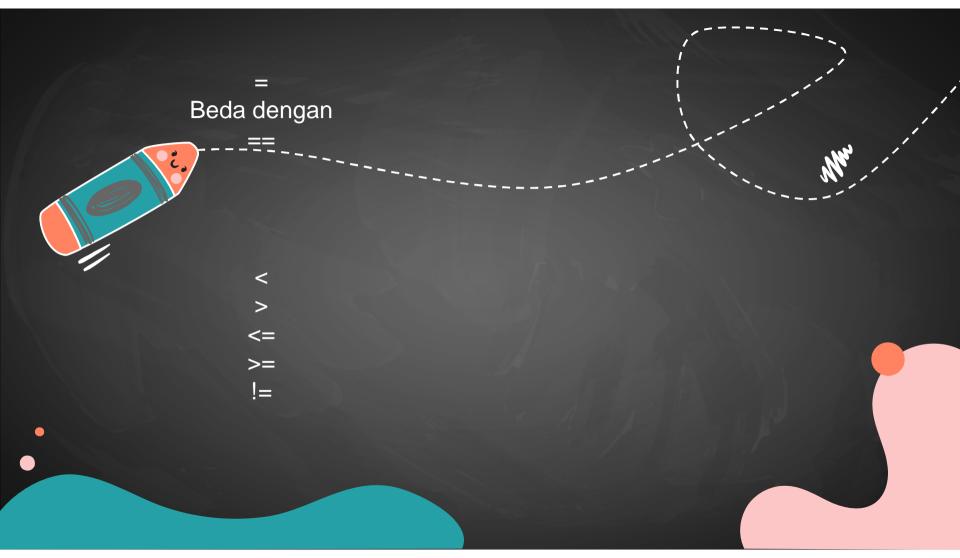


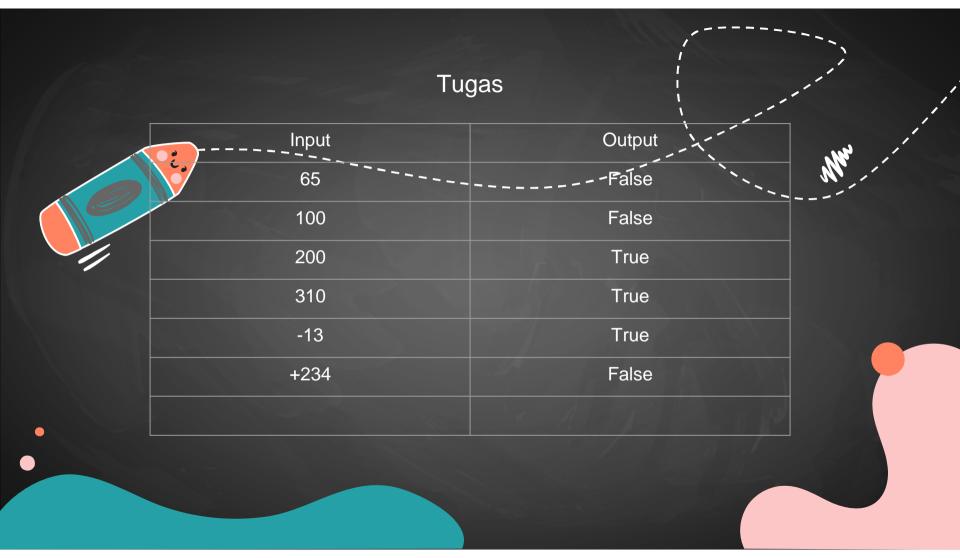
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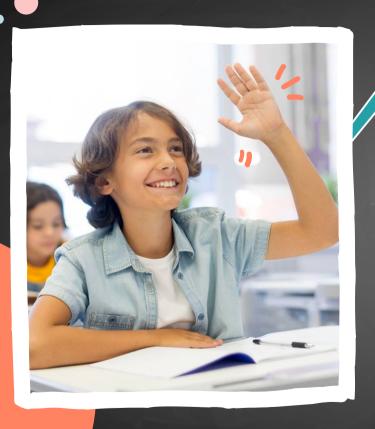
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01 Comparison









02 Function



```
1. def keyword
2. function name

def add(x, y):
3. function arguments inside ()
print(f'arguments are {x} and {y}')
return x + y

4. colon ends the function definition
6. function return statement
```





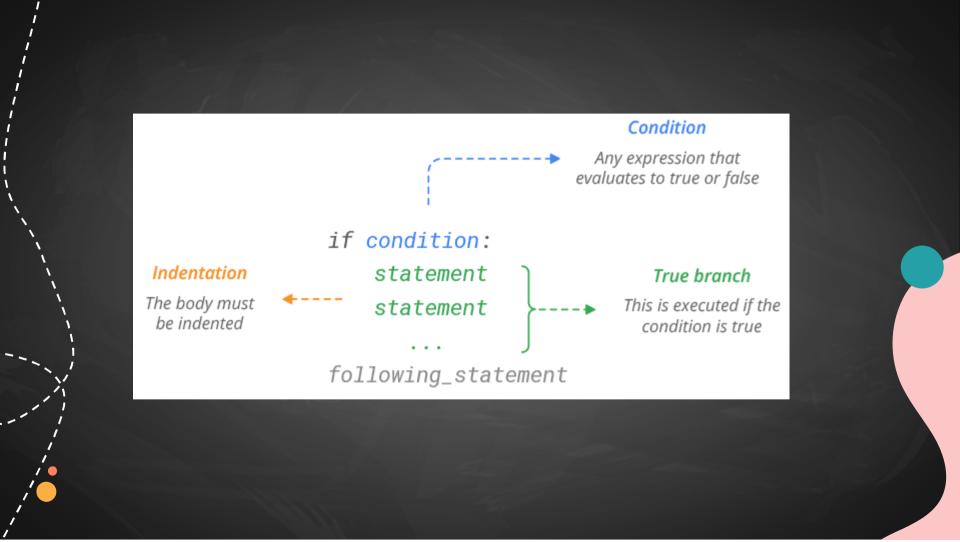
Buatlah fungsi untuk menghitung

luas Keliling

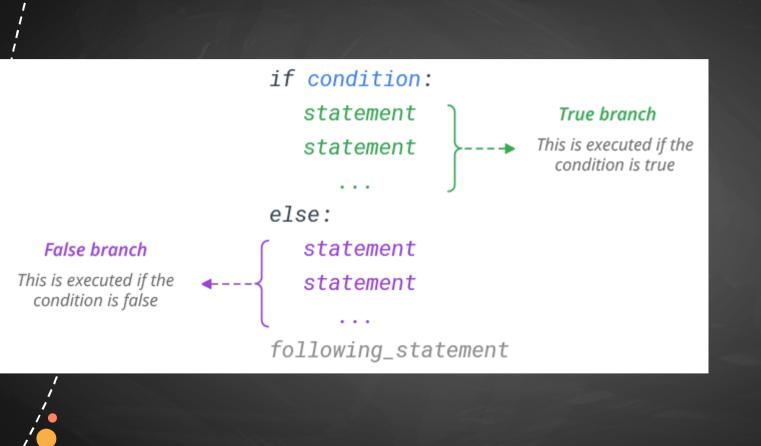
Dari suatu persegi Panjang, dimana Panjang dan lebar merupakan inputan, sedangkan outputnya adalah luas dan keliling yang dipanggil dari fungsi yang dibuat

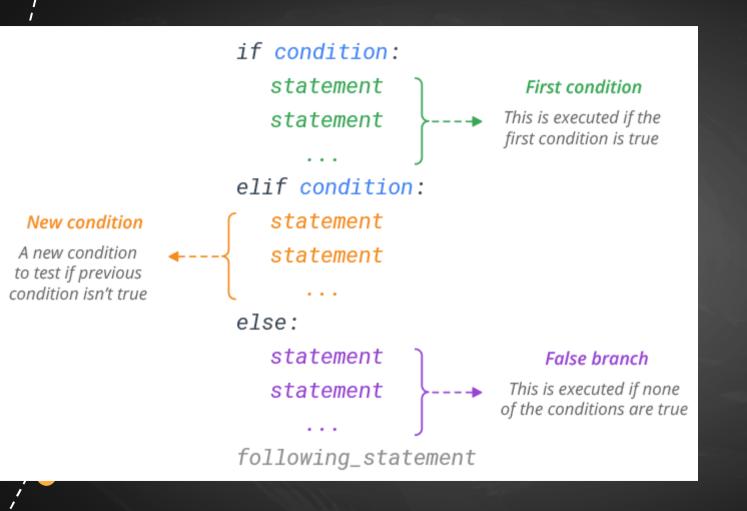
03 Condition





Buatlah program dengan ketentuan
Input : angka 1 sampai dengan 10
Output : jika input 1 maka outputnya : angka satu
jika input 2 maka outputnya : angka dua
dst





Conditional Expressions (ternary operator)

variable = statement if condition else statement

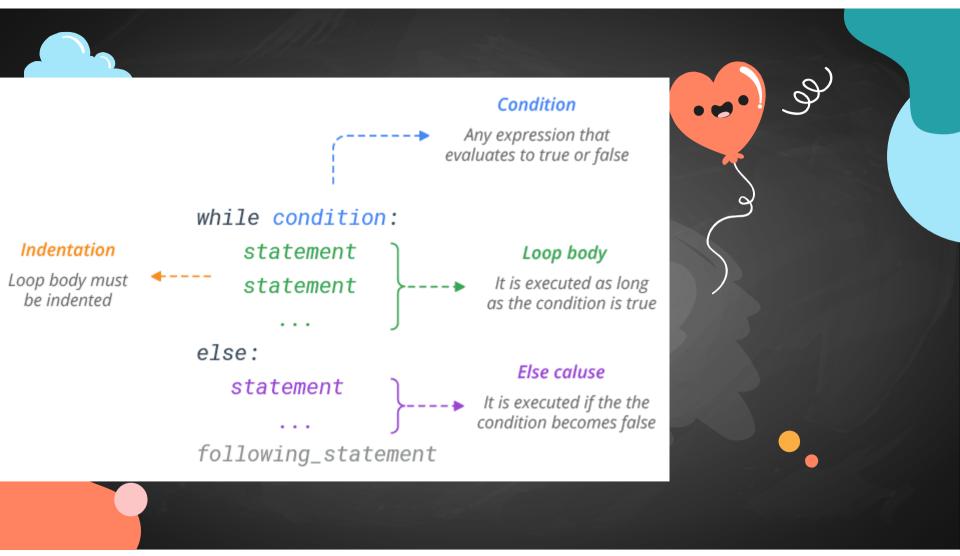


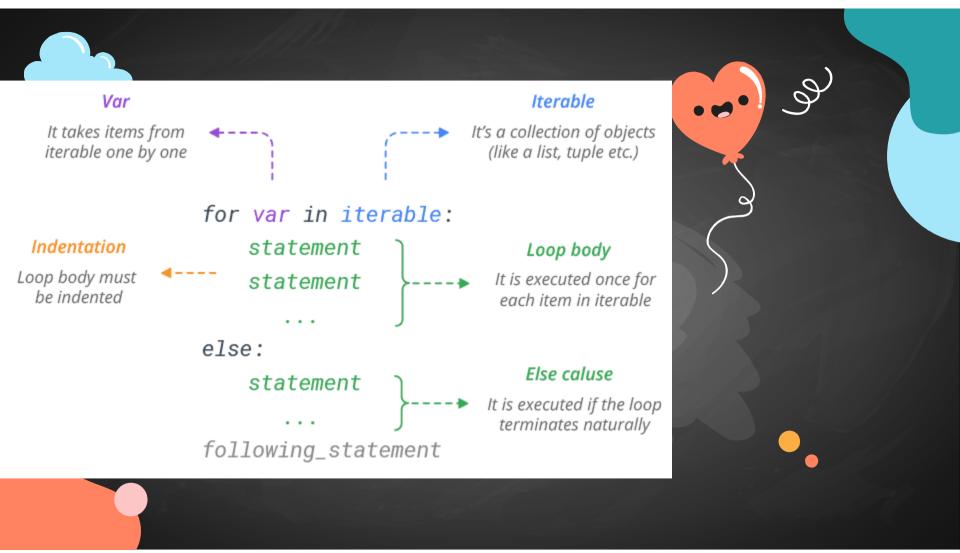
Execute this statement, if the condition is true

False branch

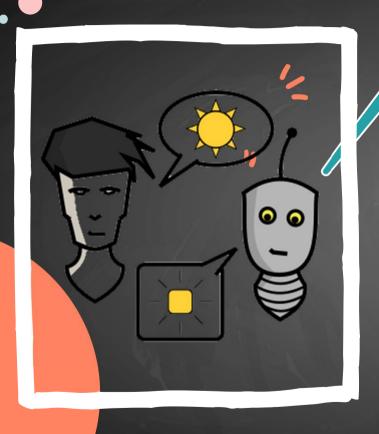
Execute this statement, if the condition is false







Jumlah 4 buah bilangan kuadrat pertama adalah 30 dimana didapatkan dari 1+4+9+16=30, buatlah program untuk dapat mengetahui jumlah bilangan kuadrat sesuai inputan (for & while)



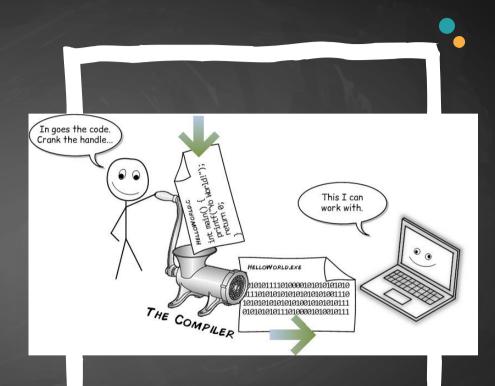
O5
Computer Logic
vs
Bitwise



Types of Bitwise Operators

Operator	Name	Example	Result
&	Bitwise AND	6 & 3	2
1	Bitwise OR	10 10	10
٨	Bitwise XOR	2^2	0
2	Bitwise 1's complement	~9	-10
<<	Left-Shift	10<<2	40
>>	Right-Shift	10>>2	2





Python List Methods Method Description Adds an element at the end of the list append() Removes all the elements from the list clear() Returns a copy of the list copy() count() Returns the number of elements with the specified value extend() Add the elements of a list (or any iterable), to the end of the current list index() Returns the index of the first element with the specified value insert() Adds an element at the specified position Removes the element at the specified position pop() Removes the item with the specified value remove() Reverses the order of the list reverse() Sorts the list sort()



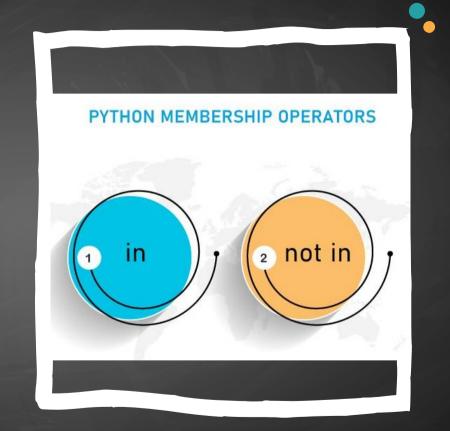
07

Slices

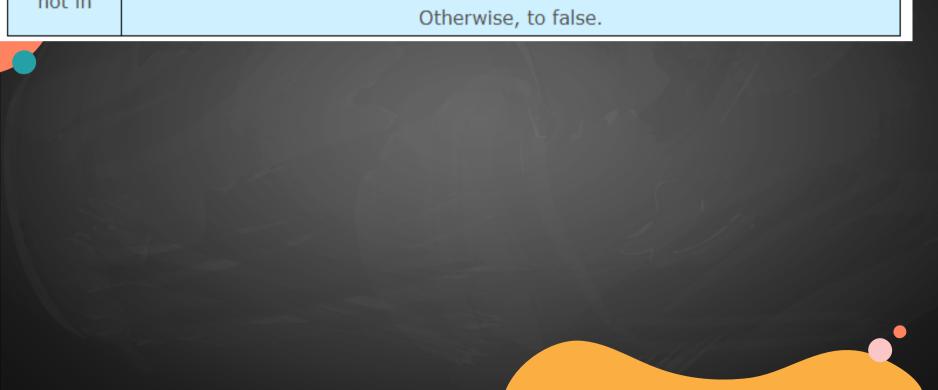


Start position End position The increment

80 In And Not In



Operator	Description	
in	t evaluates to true if it finds a variable in the specified sequence. Otherwise, to false.	
not in	It evaluates to true if it does not find a variable in the specified sequence. Otherwise, to false.	





09

Array

List	Аггау
Can consist of elements belonging to different data types	Only consists of elements belonging to the same data type
No need to explicitly import a module for declaration	Need to explicitly import a module for declaration
Cannot directly handle arithmetic operations	Can directly handle arithmetic operations
Can be nested to contain different type of elements	Must contain either all nested elements of same size
Preferred for shorter sequence of data items	Preferred for longer sequence of data items
Greater flexibility allows easy modification (addition, deletion) of data	Less flexibility since addition, deletion has to be done element wise
The entire list can be printed without any explicit looping	A loop has to be formed to print or access the components of array
Consume larger memory for easy addition of elements	Comparatively more compact in memory size
•	,

Buatlah program untuk menghitung luas & keliling bangun datar dengan pilihan bangun:

Persegi Panjang

Luas dan keliling memakai fungsi, sedangkan sisi-sisinya merupakan inputan, setelah selesai, ada pertanyaan mau mengulang proses ? Jika dijawab ya, maka akan mengulang pilihan yang ada

Contact

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Thank You!