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பைதான்
கற்றுக்கொள்ளுங்கள்
(தமிழில்)

Learn Python in Tamil



python



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Python

Decision-making & Loops

in Tamil



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Python

Decision-making



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Python Decision-making

Decision Making

- It is also known as Control flow,
- Decision structures evaluate multiple expressions which produce TRUE or FALSE as outcome. You need to determine which action to take and which statements to execute if outcome is TRUE or FALSE otherwise.
- **lets us see the below list of decision-making statements**
 - *if statement*
 - *if-else statement*
 - *nested if statement*



Python - if statement

```
if-statement.py x
1  # if statement
2
3  # When you want to check some logical condition
4  # and perform action based on positive result.
5
6  x = 8
7  y = 10
8
9  if x > y:
10     print("X is greater")
11
```



Python – if-else statement

```
if-else-statement.py x
1  # if-else statement
2
3  # When you want to check condition
4  # and perform action based on positive or negative result.
5
6  x = 8
7  y = 10
8
9  if x > y:
10     print("X is greater")
11 else:
12     print("Y is greater")
13
```



Python – nested if-else statement

```
nested-if-statement.py x
1  # nested if-else statement
2
3  # When you want to check multiple conditions
4  # and perform action based on the result (TRUE or FALSE).
5
6  x = 8
7  y = 10
8  z = 9
9
10 if x > y:
11     print("X is greater")
12 elif y > z:
13     print("Y is greater")
14 else:
15     print("Z is greater")
16
```





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Python Loops



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Python Loops

Loops

A loop statement allows us to execute a statement or group of statements multiple times.

- while loop
- for loop
- nested loop

Apart from the above loops, we have 2 statements used in Looping

- break
- continue



Python – while loop

```
while-loop.py x
1  # Python Programming - www.aryanz.co.in
2
3  # While Loop
4  # While loop repeatedly executes a target statement as long as a given condition becomes true.
5
6  count = 1
7
8  while count < 4:
9      print(count)
10     count = count + 1
11
12     print("Out of while loop")
13     print("-----")
14
15     # Using else Statement with While Loop
16
17     count = 0
18     while count < 4:
19         print(count)
20         count = count + 1
21     else:
22         print("count is less than 4")
23
```



Python – for loop

```
for-loop.py x
2  # it has the ability to iterate over the items of any sequence,
3  # such as a list or a string.
4
5  # We can iterate Collection items
6  # Such as List, Tuple, Set and so on.
7  blog_websites = ["aryanz.co.in", "balamt.in", "wecancode.live"]
8
9  for blog_site in blog_websites:
10     print(blog_site)
11
12
13  # We can iterate String
14  name = "John"
15  for letter in name:
16     print(letter)
17
18
19  # Using else in For loop
20  for i in range(1,4):
21     print(i)
22  else:
23     print(f"Reached the max range")
24
```



Python – for loop

```
nested-loop.py x
1  # Python Programming - www.aryanz.co.in
2
3  # Nested loop
4  # looping inside another loop is call nested loop
5
6  # What is the output of the following code?
7
8  for x in range(1, 5):
9      for y in range(x-1, x):
10         print(f"{y}")
11     print(f"\t")
12 |
```



Python – break & continue

continue-break-statement.py ×

```
1  # Python Programming - www.aryanz.co.in
2
3  # Continue statement - It is used when we need to continue the code execution.
4  # break statement - As its name says, it will break the loop and resumes execution.
5
6  for count in range(0, 5):
7      print(f"Now its {count}")
8      if count == 2:
9          print("count is 2, going to continue the loop")
10         continue
11     elif count == 3:
12         print("count is 3, going to break the loop")
13         break
14
15     print("Program ended")
```





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நன்றி

அடுத்த வீடியோவில் உங்களை சந்திப்போம்

See you in next video



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Python decision-making & Loops demo codes

You can checkout the Demo Codes from the below link

<https://git.io/JtBXm>

You can watch the Python course from the below link

<https://youtu.be/A2qoypUV-ZE>

You can read our blog post here:

<http://l.aryanz.co.in/30mywgcw>



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