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பைதான் கற்றுக்கொள்ளுங்கள் (தமிழில்)

Learn Python in Tamil

python

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Python Syntax

in Tamil

Python Syntax

What is Indentation?

✓

YES

If 4 > 2:

    print("Four is greater than Two")

✗

If 4 > 2:

print("Four is greater than Two")

NO

- Giving space or tab space at beginning of a line, is called indentation.
- In Python Indentation plays important role.
- It uses the space to determine the continutiy of the statement.
- The first line of Python code can't have indentation, it will throw IndentationError.

Python Indentation Rules

- We can't split indentation into multiple lines using backslash.

- The first line of Python code can't have indentation, it will throw IndentationError.

- You should avoid mixing tabs and whitespaces to create indentation. It's because text editors in Non-Unix systems behave differently and mixing them can cause wrong indentation.

- It is preferred to use whitespaces for indentation than the tab character.

- The best practice is to use 4 whitespaces for first indentation and then keep adding additional 4 whitespaces to increase the indentation.

Python Indentation

Levels of Indentation used in Python

```python
#My sample python program to show how indentation works?
def print_message(value):                      # 1st Level Indentation
    print("Checking Value passed in argument: ") # 2st Level Indentation
    if (value):                                 # 2st Level Indentation
        print("True")                           # 3rd Level Indentation
    else:                                       # 2st Level Indentation
        print("False")                          # 3rd Level Indentation
print_message(True)                             # 1st Level Indentation

```

Python Indentation

```
main.py ×
1    #My sample python program to show how indentation works?
2    def print_message(value):                         # 1st Level Indentation
3     print("Checking Value passed in argument: ")     # 2st Level Indentation
4        if (value):                                    # 2st Level Indentation
5            print("True")                              # 3rd Level Indentation
6        else:                                          # 2st Level Indentation
7            print("False")                             # 3rd Level Indentation
8    print_message(True)                                # 1st Level Indentation
9
```
print_message() › if(value)

```
Run:    main ×
/home/aryanz_co_in/dev/python_ws/helloworld/venv/bin/python /home/aryanz_co_in/dev/python_ws/helloworld/main.py
  File "/home/aryanz_co_in/dev/python_ws/helloworld/main.py", line 4
    if (value):                                    # 2st Level Indentation
    ^
IndentationError: unexpected indent

Process finished with exit code 1
```

Python Indentation

```python
#My sample python program to show how indentation works?
def print_message(value):                  # 1st Level Indentation
    print("Checking Value passed in argument: ") # 2st Level Indentation
    if (value):                             # 2st Level Indentation
        print("True")                       # 3rd Level Indentation
    else:                                   # 2st Level Indentation
        print("False")                      # 3rd Level Indentation
print_message(True)                         # 1st Level Indentation
```

Run: main

```
/home/aryanz_co_in/dev/python_ws/helloworld/venv/bin/python /home/aryanz_co_in/dev/python_ws/helloworld/main.py
Checking Value passed in argument:
True

Process finished with exit code 0
```

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பைதான் **Indentation** | **Python Indentation**

Python Indentation

```python
1    #My sample python program to show how indentation works?
2    def print_message(value):                    # 1st Level Indentation
3     print("Checking Value passed in argument: ") # 2st Level Indentation
4     if (value):                                 # 2st Level Indentation
5      print("True")                              # 3rd Level Indentation
6     else:                                       # 2st Level Indentation
7         print("False")                          # 3rd Level Indentation
8    print_message(False)                         # 1st Level Indentation
9
```

print_message() › else

Run: main ×

▶ ↑ /home/aryanz_co_in/dev/python_ws/helloworld/venv/bin/python /home/aryanz_co_in/dev/python_ws/helloworld/main.py
     Checking Value passed in argument:
🔧 ↓ False

■ ⇥ Process finished with exit code 0

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பைதான்
தரவு வகைகள்

Python data types

Python Data types

```python
# Built-in Data Types
# In programming, data type is an important concept.
# Python has the following data types built-in by default

str                               # Text Type
int, float, complex               # Numeric Types
list, tuple, range                # Sequence Types
dict                              # Mapping Type
set, frozenset                    # Set Types
bool                             # Boolean Type
bytes, bytearray, memoryview      # Binary Types

```

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Python Demo Codes

You can checkout the Demo Codes from the below link

https://git.io/JtUqQ

You can watch the Python course from the below link

https://youtu.be/ftaMRI8gdZ0