

iterations(loops)

- it is also called as loop
- repeating number of times in a programe

#iterations

- 2 types in python
 - for loop
 - while

syntax in

for(i=0;<con;i++/i--){ stmts/condition }

syntax in python

for i in range(n):

 stmts/condition

- while while con:

 stmts

 or intillisation condition inc/dec

list of builtin functions

In [4]: `dir(__builtins__)`

Out[4]: ['ArithmeticError',
'AssertionError',
'AttributeError',
'BaseException',
'BlockingIOError',
'BrokenPipeError',
'BufferError',
'BytesWarning',
'ChildProcessError',
'ConnectionAbortedError',
'ConnectionError',
'ConnectionRefusedError',
'ConnectionResetError',
'DeprecationWarning',
'EOFError',
'Ellipsis',
'EnvironmentError',
'Exception',
'False',
'FileNotFoundError',
'FloatingPointError',
'FutureWarning',
'GeneratorExit',
'IOError',
'ImportError',
'ImportWarning',
'IndentationError',
'InterruptedError',
'IsADirectoryError',
'KeyError',
'KeyboardInterrupt',
'LookupError',
'MemoryError',
'ModuleNotFoundError',
'NameError',
'NotADirectoryError',
'NotImplementedError',
'OSError',
'OverflowError',
'PermissionError',
'ProcessLookupError',
'RecursionError',
'ReferenceError',
'RuntimeError',
'RuntimeWarning',
'StopIteration',
'SyntaxError',
'SystemError',
'SystemExit',
'TabError',
'TimeoutError',
'True',
'UnboundLocalError',
'UnicodeDecodeError',
'UnicodeEncodeError',
'UnicodeError',
'UnicodeTranslateError',
'UserWarning',
'ValueError',
'Warning',
'ZeroDivisionError']

In [7]: `range(10)`

Out[7]: `range(0, 10)`

In [8]: `range(5,10)`

Out[8]: `range(5, 10)`

In [9]: `n=10
for i in range(1,n):
 print(i)`

1
2
3
4
5
6
7
8
9

```
In [10]: n=10
         for i in range(1+n):
             print(i)
```

0
1
2
3
4
5
6
7
8
9
10

```
In [14]: n=10
         for i in range(1,n-1):
             print(i)
```

1
2
3
4
5
6
7
8

```
In [1]: n=10
         for i in range(1,n+1):
             #print(i,end=', ')
             print(i,end=' ammu')
```

1ammu2ammu3ammu4ammu5ammu6ammu7ammu8ammu9ammu10ammu

```
In [ ]:
```