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]:
```python
dir(__builtins__)
```

Out[4]:
```
['ArithmeticError',
 'AssertionError',
 'AttributeError',
 'BaseException',
 'BlockingIOError',
 'BrokenPipeError',
 'BufferError',
 'BytesWarning',
 'ChildProcessError',
 'ConnectionAbortedError',
 'ConnectionError',
 'ConnectionRefusedError',
 'ConnectionResetError',
 'DeprecationWarning',
 'EOFError',
 'Ellipsis',
 'EnvironmentError',
 'Exception',
 'False',
```

In [7]:
```python
range(10)
```

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

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

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

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

```
1
2
3
4
5
6
7
8
9
```

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

```
0
1
2
3
4
5
6
7
8
9
10
```

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

```
1
2
3
4
5
6
7
8
```

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

```
1ammu2ammu3ammu4ammu5ammu6ammu7ammu8ammu9ammu10ammu
```

In [ ]: