

Loops:

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* Loops in python is Used to execute a block of code repeatedly until a certain condition is met

Two types of Loops are used mainly in python:-

- 1) for loop
 - 2) while loop
 - 3) Nested Loop
- } → This two types

i) For Loop:-

* Using for loop we can execute a set of statement once for each item in a List, tuple, Set.

type:-

a) for loop with Sequence:

String, List, tuple, set, dict

b) for loop with Range.

Eg:-

a) name = "Vijay Raj"

print(name)

o/p: Vijay Raj

ENUMERATE:- enumerate() is Used to return the individual position and character of given string.

Eg:- for i in enumerate(name):
print(i)

Output:-

(0, 'v')

(1, 'i')

(2, 'j')

(3, 'A')

(4, 'y')

(5, 'l')

(6, 'R')

(7, 'A')

(8, 'J')

b) for loop In Range:-

Syn:- for (Initialization; cond; inc/decs)

range (start value, stop value,
step value)

Eg:-

To print the first 10 value (Using
range)

for iⁱⁿ range(1, 11, 1);
 print(i)

o/p. 1
2
3
4
5
6
7
8
9
10

2) To print 20 numbers.

for i in range(20):

print(i):

Op:-
0
:
19

Here 20 is acted as stop Value

"default Value" of start Value is '0'

Step size is 1.

3) To print position and Char use only range fun not enumerate fun

name = "Vijay"

for i in range(0, 6, 1):

print(i, name[i])

Op:-

0 V

1 i

2 j

3 a

4 y

4) When there is no stop Value means

Use len() function.

name = "Vijay"

for i in range(0, len(name), 1):

print i

Op:-

0 V

1 i

2 j

3 a

4 y



⑤. to print even numbers from 1 to 20.

```
for i in range (2, 21, 2):
```

```
    print (i)
```

O/p: 2
 4
 6
 8
 10
 12
 14
 16
 18
 20

"only even No"

⑥. to check and print whether No is

odd or even

```
for i in range (1, 4, 1):
```

```
    if (i % 2 == 0):
```

```
        print (i, "Even No")
```

```
    else:
```

```
        print (i, "Odd no")
```

O/p:-

1. odd No

2. Even No

3. odd No

4. Even No