

Ex: for nested if

```
n = int(input())
```

```
if n >= 0:
```

```
    if n == 0:
```

```
        print('0')
```

```
    else:
```

```
        print('+ve')
```

```
else:
```

```
    print('-ve')
```

## \* Loops

- Loops in Python are used to repeat a block of code multiple times until a certain condition is met.

1. for Loop

2. while Loop

1. for Loop: used when you know how many times you want to repeat code

It iterates over list, string, tuple

Ex: for i in range(5):

```
    print('Hello')
```

Hello

Hello

Hello

Hello.

1.1) For loop with range

1.2) For loop with sequence

Ex: Name = 'varun'

for i in enumerate(name):

Print(i)

Print(f'pos={i[0]}, char={i[1]}')

(i,p)

(0,v)

P=0, char=v

(1,a)

P=1, char=a

1.1) for loop with range

for i in range(1, 5, 1)

Print(f'i = {i}')

Print('Hi')

i=1

Hi

i=2

Hi

i=3

Hi

i=4

Hi.

Print no from 1-20

① even no 1-10

② odd no 1-10

for i in range(1, 21):

Print(i)

for i in range(1, 11, 2):

Print(i)

for i in range(1, 11, 2):

Print(i)

\* to Print sum of 1-10, even, odd no sum

ts=0

even sum = 0

odd sum = 0

for i in range(1, 11):

ts = ts + i

if i % 2 == 0:

even sum = ts + i

else

oddsum = ts + i