

# Revision Session -02

↳ Conditional Statements

↳ Loops.

## Conditional statement (2 mins)

↳ Voting :

age  $\geq 18$

→

Eligible for voting

age  $< 18$

→

Not eligible for voting

## → Types of conditional statements

① If

② elif

③ Else

① If  
↳ a = 18

```
if a == 18:  
    print("Yes")
```

Syntax  
if condition :

② else (otherwise)  
↳ else:  
 print("No")

Syntax  
else :

\* Indentation in python is very important.

```
a = 12
```

```
if a == 18:  
    print("Yes")  
else:  
    print("No")
```

error

```
File "/home/main.py", line 6  
    print("No")  
    ^  
IndentationError: expected an indented block after 'else' statement on line 5
```

③ elif  
↳ Multiple cond<sup>n</sup>.

Syntax  
elif condition:

↳ Note:- for 1 particular logic  
we use '1' if statement but can use multiple elif statements.

Q-1 (4 mins)      12 min  
↳ Take 2 variables.      ↳ 09:55 pm  
↳ Find the sum.  
↳ Check  $sum > 50 \rightarrow$  "Sum is greater than 50"  
Otherwise  $\rightarrow$  "Sum is less than equal to 50"

(4 mins)

Q-4 Print the maximum of 3 nos. using cond<sup>n</sup> statements.

Q-2 Take a variable and check whether it's even or odd. (4 mins)  
 $\Rightarrow$  If a given no. is even  $\rightarrow a \% 2 == 0$

Q-3 Take a variable. (4 mins)  
↳ Find it's remainder  $\rightarrow 10$   
↳ if  $rem == 0 \rightarrow print(0)$   
↳ if  $rem$  is multiple of 2  $\rightarrow$  multiple of 2  
↳ otherwise not a multiple of 2

## Nested Conditional Statement

```
↳ if ( — ):
    if — ;
```

```
a = 50
```

```
if ( — ) :
    print ( — )
    if ( — ) :
```

```
else :
```

```
    print ( — )
    if
```

Loops:-

↳


Same task/work again and again  
print the following pattern.

↳ while loop

↳ for loop.

```
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
x x x x x
```

```
print("x x x x x")
print("x x x x x")
print("x x x x x")
print("x x x x x")
```



## a) while loop

### Syntax

initialization

while ( cond<sup>n</sup> ) :

{ logic;

increment / decrement

print the star pattern 10 times. (\*\*\*\*\*)

↳ i = 1

while ( i <= 10 );

print ( "\*\*\*\*\*" );

i += 1

↳ i = 10

while ( i >= 1 );

print ( "\*\*\*\*\*" );

i -= 1

Q. Print the sum of first  $N$  natural nos.  $N = 10$  (4 mins)  
using while loop.

Q. Print all even nos in the range of  $(a, b)$  where  $a$  and  $b$  are include. (4 mins)

Q. Print the  $n^{\text{th}}$  table (4 mins)

Q. Print all the factors of a given no.  $n = 24$  (6 mins)  
↳ 1, 2, 3, 4, 6, 8, 12, 24

18 mins → 90:50 pm  
--