

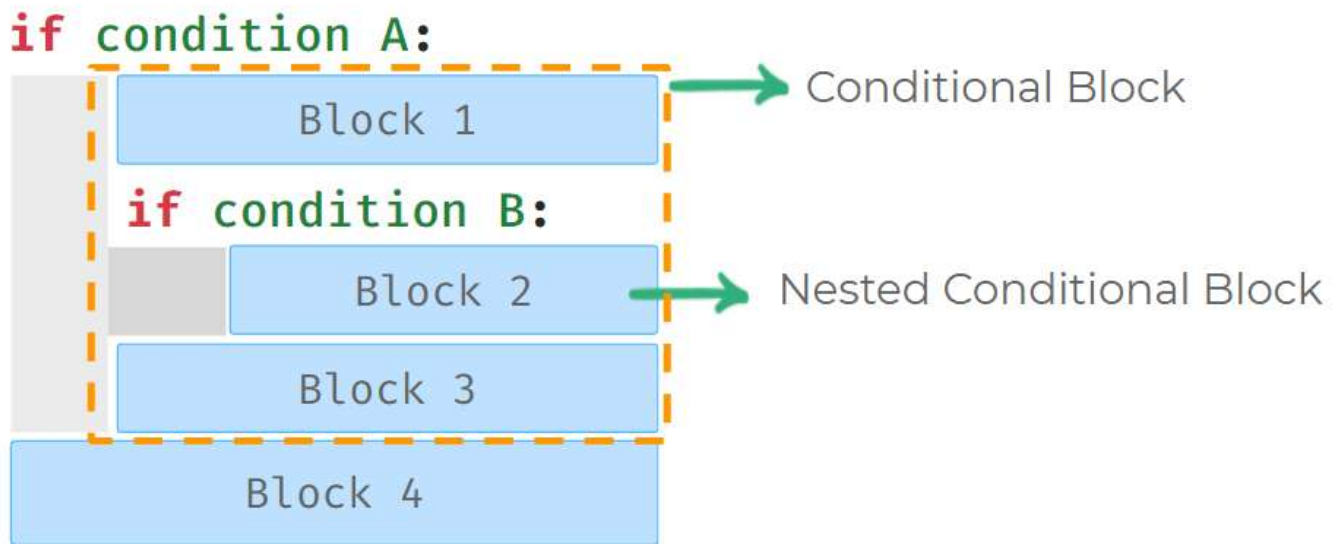


# Cheat Sheet

## Nested Conditional Statements

### Nested Conditions

The conditional block inside another if/else conditional block is called as *nested conditional block*. In the below example, **Block 2** is nested conditional block and **condition B** is called nested conditional statement.



#### Code

PYTHON

```
1 matches_won = int(input())
2 goals = int(input())
3 if matches_won > 8:
4     if goals > 20:
5         print("Hurray")
6     print("Winner")
```

#### Input

```
10
22
```

## Output

Hurray  
Winner

## Input

10  
18

## Output

Winner

# Nested Condition in Else Block

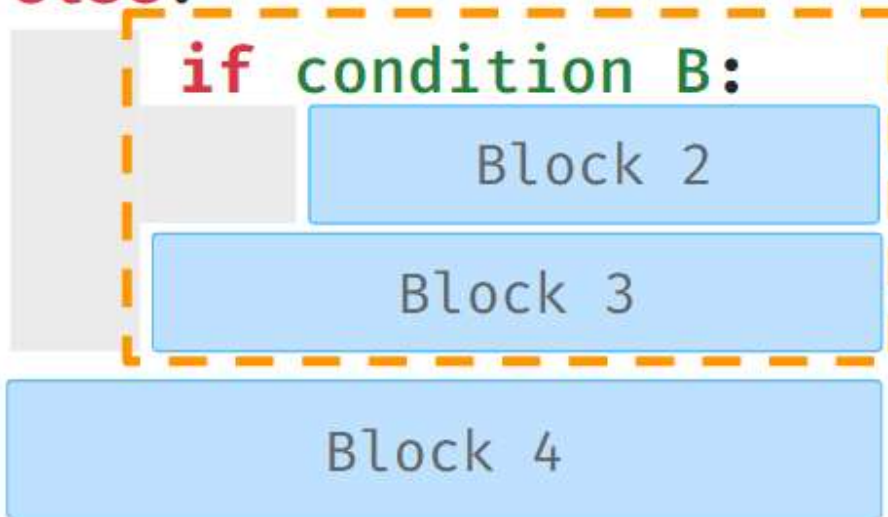
We can also write nested conditions in Else Statement.

In the below example **Block 2** is a nested conditional block.

**if** condition A:



**else:**



## Code

```
1 a = 2
2 b = 3
3 c = 1
4 is_a_greatest = (a > b) and (a > c)
5 if is_a_greatest:
6     print(a)
7 else:
8     is_b_greatest = (b > c)
9     if is_b_greatest:
10        print(b)
```

PYTHON



Expand 

## Output

3

# Elif Statement

Use the elif statement to have multiple conditional statements between if and else.

The elif statement is optional.

**if** condition A:



**elif** condition B:



**else:**



## Multiple Elif Statements

We can add any number of

elif statements after if conditional block.

**if** condition A:



**elif** condition B:



**elif** condition C:



**else:**



## Execution of Elif Statement

Python will execute the elif block whose expression evaluates to true.

If multiple

elif conditions are true, then only the first elif block which is True will be executed.

**if** condition A:

Block 1

**elif** condition B:

Block 2

**elif** condition C:

Block 3

**else:**

Block 4

## Optional Else Statement

Else statement is not compulsory after

if - elif statements.

**if** condition A:

Block 1

**elif** condition B:

Block 2

**elif** condition C:

Block 3

Code

```
1 number = 5
2 is_divisible_by_10 = (number % 10 == 0)
3 is_divisible_by_5 = (number % 5 == 0)
4 if is_divisible_by_10:
5     print("Divisible by 10")
6 elif is_divisible_by_5:
7     print("Divisible by 5")
8 else:
9     print("Not Divisible by 10 or 5")
```

## Output

Divisible by 5

## Possible Mistake

Cannot write an elif statement after

else statement.

**if** condition A:

Block 1

**elif** condition B:

Block 2

**else:**

Block 3

**elif** condition C:

Block 4





[Submit Feedback](#)