

Cheat Sheet

Conditional Statements

Block of Code

A sequence of instructions are called block of code.

Python executes code in a sequence.

Condition

An expression that results in either

True or False

Examples

i. $2 < 3$

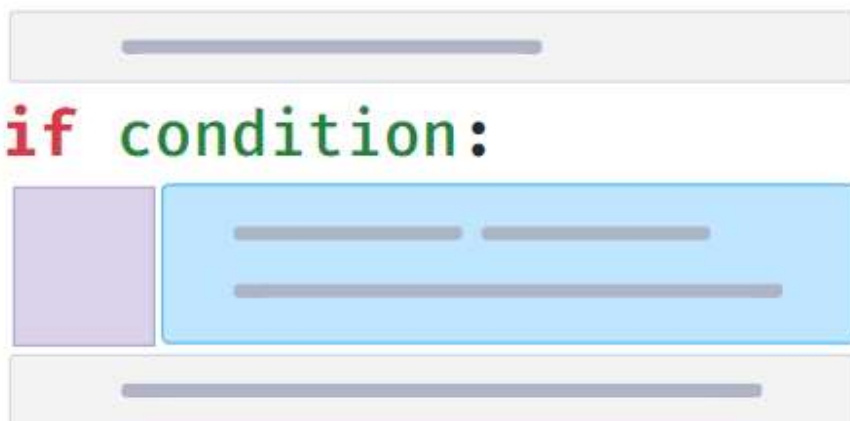
ii. $a == b$

iii. True

Conditional Statement

Conditional Statement allows you to execute a block of code only when a specific condition is

True



Conditional Block

Block of code which executes only if a condition is

True is called **Conditional Block**.

if condition:



Conditional Block

Executes only if condition is true

Indentation

- Space(s) in front of the conditional block is called *indentation*.
- Indentation(spacing) is used to identify Conditional Block.
- Standard practice is to use *four spaces* for indentation.

Indentation

Spacing is Used
to Identify
Conditional Block



Possible Mistakes

Each statement inside a conditional block should have the same indentation (spacing).

Wrong Code

PYTHON

```
1 if True:
2     print("If Block")
3     print("Inside If")
```

Output

IndentationError: unexpected indent

Correct Code

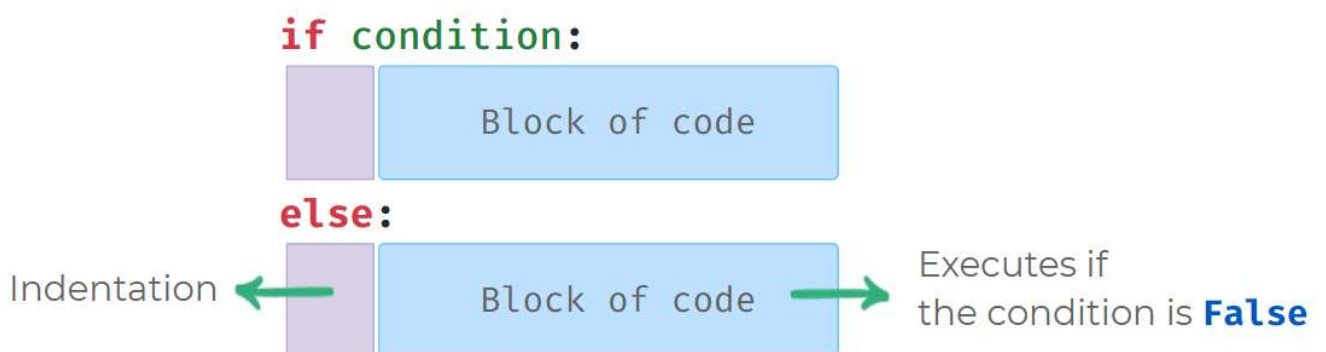
PYTHON

```
1 if True:
2     print("If Block")
3     print("Inside If")
```

If - Else Syntax

When If - Else conditional statement is used, Else block of code executes if the condition is

False



Using If-Else

Code

PYTHON

```
1 a = int(input())
2 if a > 0:
```

```
2  if a > 0:
3      print("Positive")
4  else:
5      print("Not Positive")
6  print("End")
```

Input

2

Output

Positive
End

Possible Mistakes in If-Else

Else can only be used along with if condition. It is written below if conditional block

Code

PYTHON

```
1  if False:
2      print("If Block")
3  print("After If")
4  else:
5      print("Else Block")
6  print("After Else")
```

Output

SyntaxError: invalid syntax

Warning

Note: No code is allowed in between if conditional block and else statement.

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