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
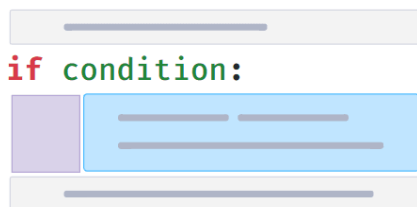
Examples

i. 2 < 3

ii. a == b

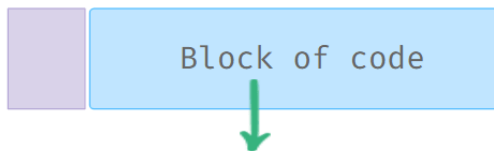iii. True

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:
```
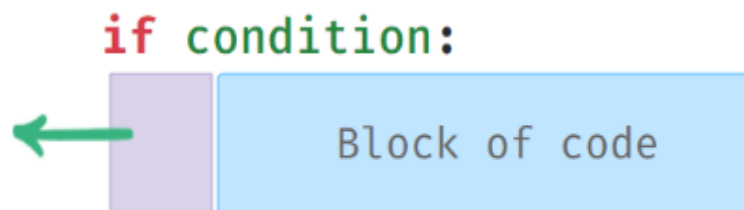
Block of code

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

```
if condition:
```

Block of code

Possible Mistakes

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

Wrong Code

```
if True:

    print("If Block")

        print("Inside If")
```

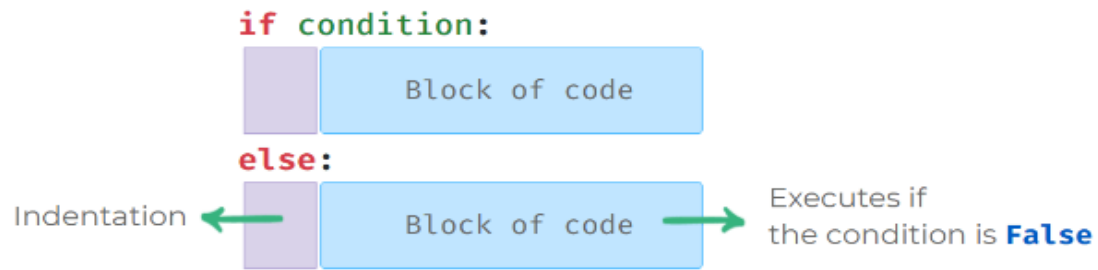Output

IndentationError: unexpected indent.

Correct Code

```
if True:

    print("If Block")

    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

```
a = int(input())
if a > 0:
    print("Positive")
else:
    print("Not Positive")
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

```
if False:

    print("If Block")

print("After If")

else:

    print("Else Block")

print("After Else")
```

output

SyntaxError: invalid syntax.