

# Conditional Statements: Takeaways

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## Syntax

- Using an if statement to control your code:

```
if True:
    print(1)
if 1 == 1:
    print(2)
    print(3)
```

- Combining multiple conditions:

```
if 3 > 1 and 'data' == data':
    print('Both conditions are true!')
if 10 < 20 or 4 <= 5:
    print('At least one condition is true.')
```

- Building more complex if statements:

```
if (20 > 3 and 2 != 1) or 'Games' == 'Games':
    print('At least one condition is true.')
```

- Using the else clause:

```
if False:
    print(1)
else:
    print('The condition above was false.')
```

- Using the elif clause:

```
if False:
    print(1)
elif 30 > 5:
    print('The condition above was false.')
```

## Concepts

- We can use an `if` **statement** to implement a condition in our code.
- An `elif` clause is executed if the preceding `if` statement (or the other preceding `elif` clauses) resolves to `False` and the condition specified after the `elif` keyword evaluates to `True`.
- `True` and `False` are **Boolean values**.
- `and` and `or` are **logical operators**, and they bridge two or more Booleans together.
- We can compare a value `A` to value `B` to determine whether:
  - `A` is **equal** to `B` and vice versa ( `B` is equal to `A` ) — `==`.
  - `A` is **not equal** to `B` and vice versa — `!=`.

- `A` is **greater** than `B` or vice versa — `>` .
- `A` is **greater than or equal to** `B` or vice versa — `>=` .
- `A` is **less** than `B` or vice versa — `<` .
- `A` is **less than or equal to** `B` or vice versa — `<=` .

## Resources

- [If Statements in Python](#)