## 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.')</pre>
```

• 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  $\overline{A}$  to value  $\overline{B}$  to determine whether:
  - A is **equal** to B and vice versa (B is equal to A) = .
  - $\mathbf{A}$  is **not equal** to  $\mathbf{B}$  and vice versa  $\mathbf{!=}$  .
  - A is **greater** than B or vice versa > .
  - A is greater than or equal to B or vice versa >=.
  - $\mathbf{A}$  is  $\mathbf{less}$  than  $\mathbf{B}$  or vice versa < .
  - A is less than or equal to B or vice versa <= .

## Resources

• If Statements in Python



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