

Conditional Statements: Takeaways

by Dataquest Labs, Inc. - All rights reserved © 2020

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](#)



Takeaways by Dataquest Labs, Inc. - All rights reserved © 2020