

PYTHON SNIPPETS

More Uses for Else in Python



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Python's `else` statement is pretty versatile and can be used with more than just `if` conditionals. You can also use `else` with `for` and `while` loops, and also as part of a `try / except` block.

In the case of `for` loops, the `else` block executes if the main loop wasn't terminated by either a `break` statement, or an exception. For `while` loops, the `else` block runs when the loop condition evaluates to `False` at the start of a new iteration. If a `break` statement is encountered, or an exception occurs, the loop condition doesn't get checked again, so both of these cases prevent the `else` clause from running, just like with `for` loops.

In the the case of `try / except`, the `else` block runs in the event that an exception wasn't encountered as part of the `try` block.

```
# Print whether or a not an integer is prime for all integers from 2
for dividend in range(2,101):
    divisor = 2

    while dividend >= divisor ** 2:
        result = dividend / divisor
        if result.is_integer():
```

```
        break
    divisor += 1

# The else block runs if no break was encountered in the while loop
else:
    print(f"{dividend} is prime")

"""
Convert the user input to an integer value and check the user's age
over 18 if the conversion is successful. Otherwise, print an error message
"""
try:
    age = int(input("Enter your age: "))
except:
    print("Please only enter numerical characters.")

# The else block only runs if no exception gets raised
else:
    if age < 18:
        print("Sorry, you're too young to watch this movie.")
    else:
        print("Enjoy the movie!")
```

You can read more about using else statements with loops in the [official docs](#).

Wrapping up

I hope you enjoyed the post, and that you learnt something new!

If you're really looking to upgrade your Python skills even further, you might want to try out our [Complete Python Course](#), or join our [Discord server](#)! You should also think about signing up to our mailing list below, as you'll get regular discount codes for our courses, ensuring you always get a great deal.



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