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**WALRUS OPERATOR**

The Walrus operator which is represented as : = is an assignment operator introduced in python 3.8 and the subsequent python release. The operator is referred to a Walrus operator because it resembles the eyes and tusks of a sideways walrus. It allows you to assign a value to a variable while also returning the value. The operator enables the assignment of a value to be passed into an expression. This generally reduces the number of statements by one.

The best way to understand the walrus operator is with a simple example. Just like above, we want to assign 15 to ***num***, and then print the value of ***num***. We can accomplish both these tasks in one line of code using the walrus operator as follows:

print(**num** := 15)  
# 15

*The value of 15 is assigned to***num***. Then this same value is returned, which will become the argument for the****print****function. Thus, 15 is printed.*

If we attempt the above using the simple assignment operator, we would get a ***TypeError***, since ***num = 15*** does not return anything.

print(**num** = 15)  
# TypeError