# Open labs Assignment

## **What is walrus operator and how it is used?**

Walrus operator was introduced in python 3.8 in the year 2019, the walrus operator**, (:=),** which was formally known as the **assignment expression operator**, offers a way to assign to variables within an expression, including variable that do not exits yet.

* The operator is often called to walrus operator as it resembles the eye and tusks of a walrus on its side. The assignment expression allows you to assign to true to walrus, and immediately print the value. Use your best judgment about when the walrus operator helps make your code more readarble

The purpose of the walrus operator is to consolidate an assignment statement and a Boolean expression when both assignment and expression would utilize a similar statement.

## **BEFORE AND AFTER: IMPLEMENTING THE WALRUS OPERATOR**

LET’s TAKE A LOOK AT A SIMPLE USE CASE AND HOW WE CAN IMPLEMENT THE WALRUS OPERATOR TO IMPROVE THE EFFIENCY OF OUR CODE.WE ARE GOING TO CHECK THE LENGTH OF A GIVEN LIST AND PRINT AN ERROR MESSAGE THAT INCLUDES THE LENGTH.

MY\_LIST= [1,2,3,4,5]

IF LEN (MY \_LIST)>3:

PRINT (F’” THE LIST IS

TOO LONG WITH

{LEN(MY\_LIST} ELEMENT :)

IN CASE YOU AARE UNSURE ABOUT THE F

BEFORE THE STRING IN THE PRINT STATEMENT THAT IS CALLED THE FORMAT- STRING LITETAL,F-STRING FOR SHORT.

NOW,THE WALRUS OPERATOR WILL ELIMINATE CALLING THE LEN() FUCTION TWICE.

MY\_LIST= {1,2,3,4,5}

IF (N:= LEN(MY\_LIST))>3:

PRINT(F”THE LIST IS TOO LONG WITH {N}ELEMENT)

THE TYPE OF OPERATOR (ASSIGNMENT EXPRESSION) SHOULD GIVE YOU A HINT ABOUT WHAT IS HAPPENING HERE. THE INNER-MOST STAETEMENT ISAN ASSSIGNMENT N=LEN (MY LIST \_ LIST) THEN THE VALUE OF N IS USED IN THE OUTER EXPRESSION.

# **DON’T FORGET THE PARENTHESIS**

PYTHON ISNT KNOWN FOR REQUIRING PARENTHESIS VERY OFTEN. BUT IN THIS CASE ,THEY ARE CRITICAL FOR THE STAEMENT TO EVALUATE PROPERLY. TO SEE THE RESULTS OF FORTETTING THE PARENTHESIS ,LET’S COMPARE EACH BYPRINYING N.

MY\_LIST= {1,2,3,4,5}

IF (N := LEN(MY\_LIST))>

PRINT(N)#5

IF N := LEN (MY LIST\_LIST) >3:

PRINT (N#TRUE

NOTICE THAT WITHOUT THE PARENTHSIS,THE EVALUATION OF

LEN(MY\_LIST)>3 IS ASSIGNED.

# **HOW WILL YOU USE THIS?**

THE WALRUS OPERATOR, ALLOWING A COMPOUND ASSSIGNMENT EXPRESSION, OPENS UP A HOST OF NEW POSIBILITIES.

THE INTRODUCTION OF THIS OPERATOR HAS ALSO COME WITH IT FAIR SHARE OF CRITICISM, BUT TO ME, ITS SIMLILY ANOTHER TOOL IM THE KIT THAT CAN BE USED WHEN APPROPRITE.

SO, WILL YOU BE USING THE WALRUS OPERATOR? IF SO, HOW WILL YOU BE USING IT?

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