01

INTRODUCTION TO PYTHON





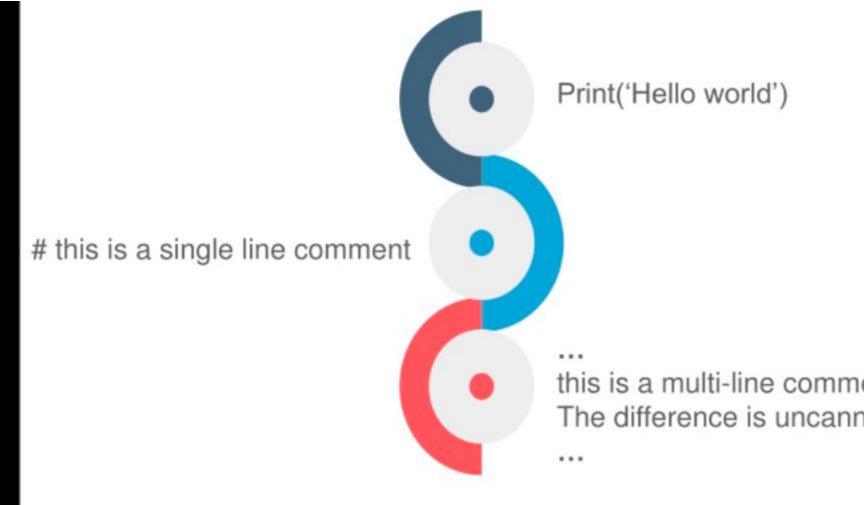
PYTHON PROGRAMMING







COMMENTS IN PYTHON



Comments in python

There are two types of comments in python

Single line comment



Here is a list of the Python keywords

False def del None True elif else and except as finally assert break for class from continue global

if
import
in
is
lambda
nonlocal
not
or

pass

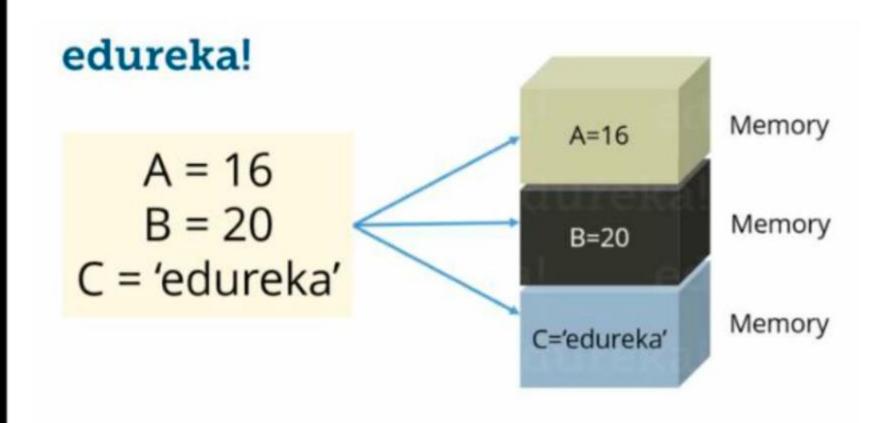
raise return try while with yield

Keyword and Identifiers

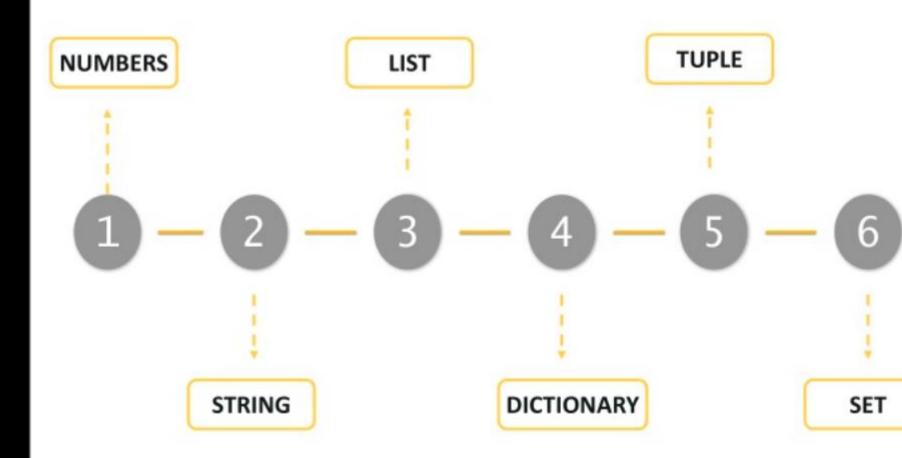
Keywords in python are special words that have a specific meaning. And identifiers are user defined names to represer a variable, function, a class or a module.

WHAT IS A VARIABLE?

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DATA TYPES IN PYTHON



OPERATORS IN PYTHON



Why Should We Use Loops?



Suppose you want to print the numbers from 0-10

0,1,2,3,4,5,6,7,8,9,10

OR

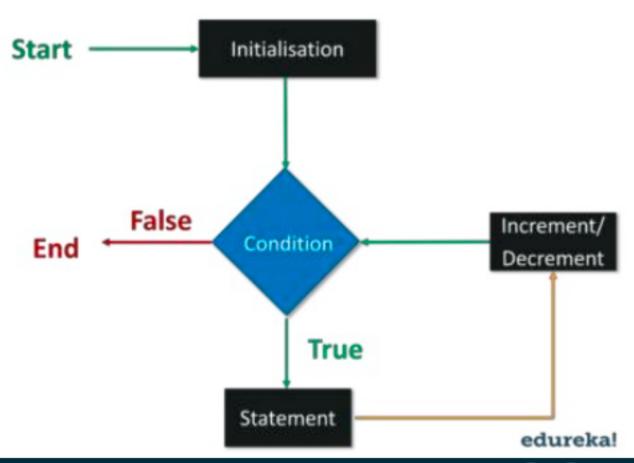
You want to print the sum of all even numbers until 100.

OR

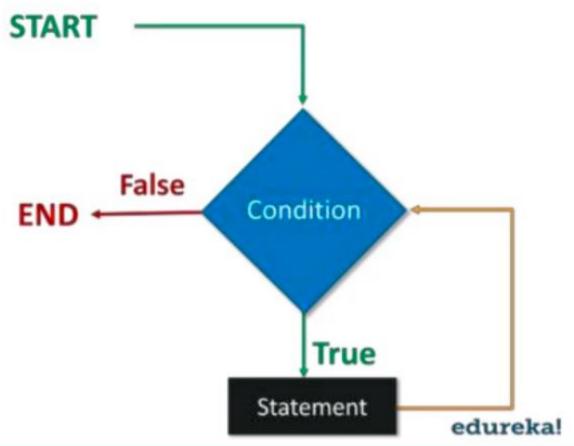
You want to print the name of all employees in a sequence until you come across lets say 'Ravi Mehta'

FOR LOOP

Share



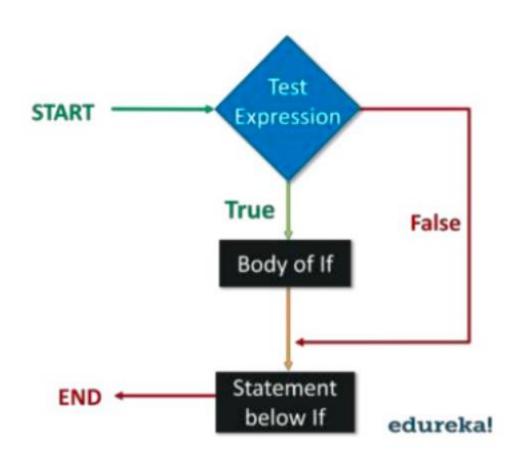
Why FOR Loop?
When we are iterating over a sequence.
You know the number of times the statements will get executed.



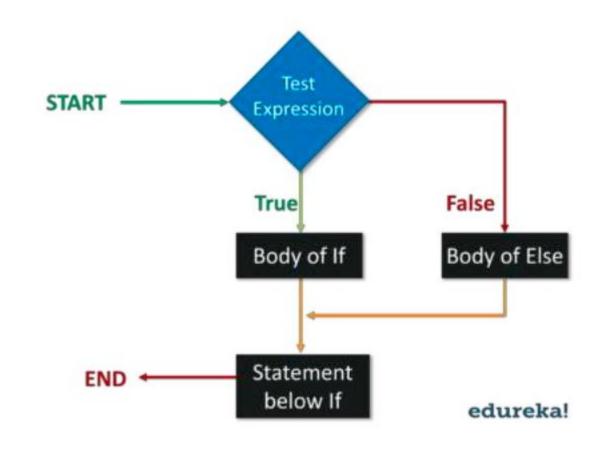
Why WHILE Loop? When we are executing a set of statements, if the condition holds true.

The execution stops as soon as the condition is false.

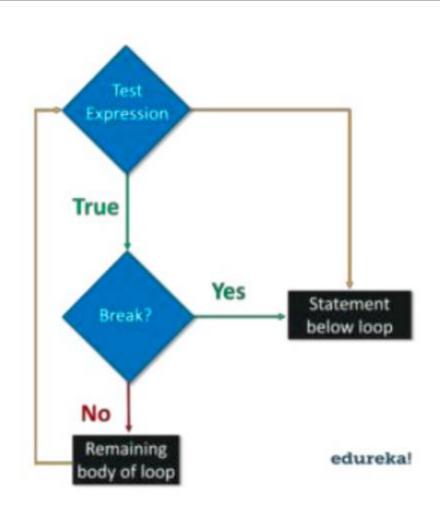
CONDITIONAL STATEMENTS

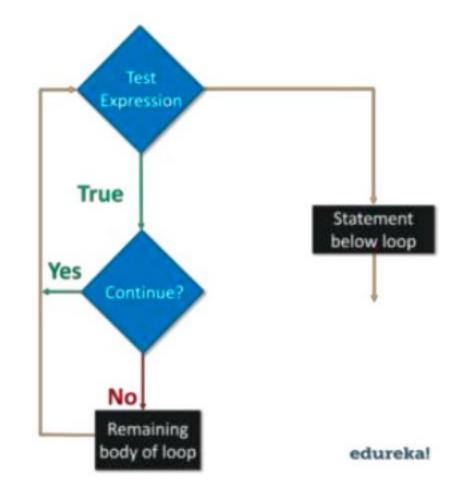


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CONTROL STATEMENTS





FUNCTIONS IN PYTHON

WHY USE (FUNCTIONS?

01

02

HOW TO DECLARE A FUNCTION?

HOW ARE WE
GOING TO PASS
VALUES IN A
FUNCTION?



Why Use Functions?



I have to write the logic for Factorial again and again

Instead You can define a function to calculate factorial. And you can call that function every time you need to calculate factorial.

FUNCTIONS IN PYTHON

Creating a function:

def my_func():
 print('function created')

Calling a function:

def my_func():
 print('function created')

my_func()

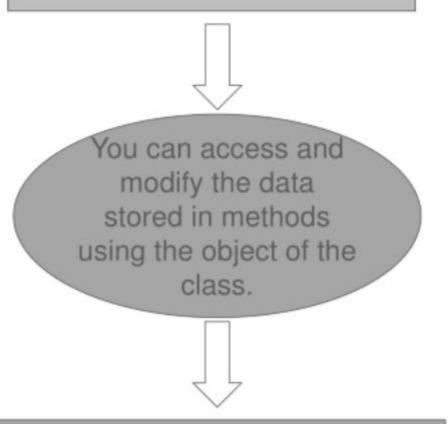
Parameters:

def my_func(name):
 print(name + 'age')

my_func(edureka)
my_func(python)

Why Use Classes?

You can define a class with various methods/functions





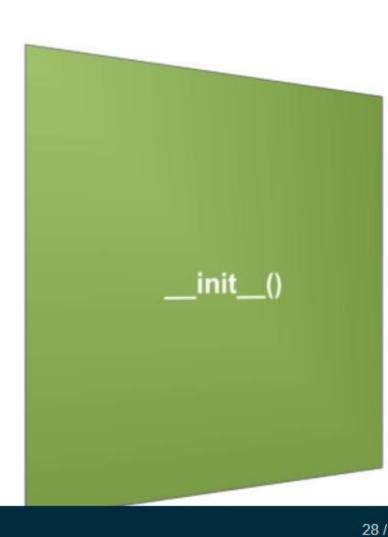
A class is basically a definition of an object

CLASSES & OBJECTS

Creating a class:

class Myclass: name ='edureka' Creating an object:

ob1 = Myclass() print(ob1.name)





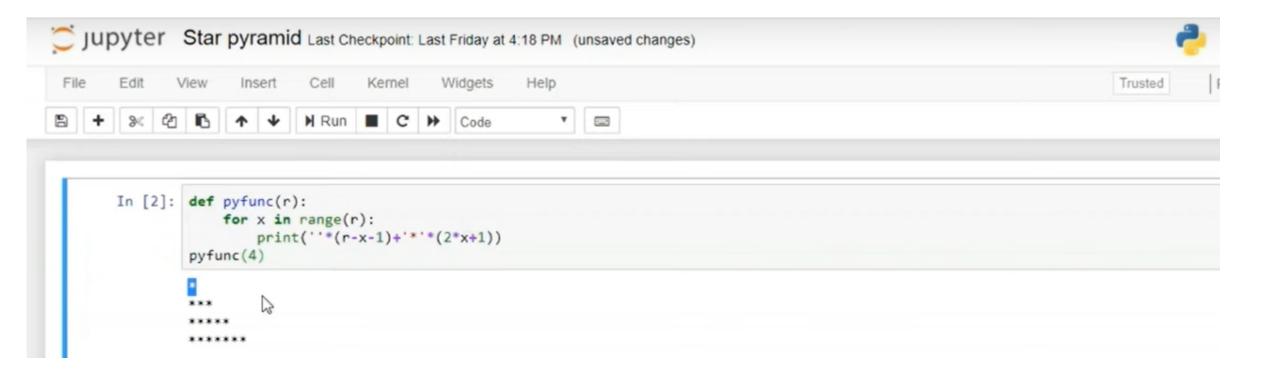
Prime Number Program

```
# TO check a number is prime Number
 a=int(input("Enter the number"))
for x in range(2,a):
         if(a%x)==0:
             print("Not Prime")
             break
         else:
             print("Prime")
             break
 else:
     print("Not PRime")
```

Palindrome Program

```
# Palindrome Program
a<u>=input("Enter</u> sequence")
b_a[::-1]
if a==b:
    print("Palindrome")
else:
    print("Not Palindrome")
```

Pyramid Program



Fibonacci Series

