PROGRAMMING WITH PYTHON

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OUTLINE

- •If
- If Else
- •if...elif...else....
- Applications

IF.... STRUCTURE (1-SIMLPE CONDITION)

if (condition):

- -statement 1
- -statement 2

EXAMPLE-1

```
checks just one
x=int(input("X = "))
                           condition
y=int(input("Y = "))
if x<y:
    print(x,"<",y," is True")</pre>
if x>y:
    print(x,">",y," is True")
if x==y:
    print(x,"=",y," is True")
```

The program

IF...ELSE....(2. SIMPLE ITERATIVE CONDITION)

```
if (condition):

-statement 1

-statement 2

-....
```

This bloc of instruction is run when the condition is TRUE

else:

-statement 1

-statement 2

-.....

This bloc of instruction is run when the condition is False

EXAMPLE-2

```
x=int(input("X = "))
y=int(input("Y = "))
if x<y:
    print(x, "<", y)
else:
    print (x, ">=", y)
```

IF...ELIF....ELSE (3-COMPLEX ITERATIVE CONDITION)

if (condition-1):

-statement 1

-statement 2

elif (sub-condition-1):

-statement 1

-statement 2

else:

-statement 1

-statement 2

This bloc of instruction is run when **condition-1** is TRUE

This bloc of instruction is run when sub-condition1 is True

This bloc of instruction is run when all preview conditions are False

EXAMPLE-3

```
x=int(input("X = "))
y=int(input("Y = "))
if x<y:
    print(x, "<", y, " is True")</pre>
elif x==y:
    print(x,"=",y," is True")
else:
    print(x,">",y," is True")
```

APPLICATION -1

Write a program that receives as input a number and returns the color according to the following table:

Number	Color
О	Black
1	White
2	Yellow
3	Red
4	Green
5	Blue
6	Brown

APPLICATION -2

Write a program that receives as input two numbers and returns the maximum of these numbers

APPLICATION -3

Write a program that receives as input two numbers X and Y and displays the result of comparison between X and Y:

X = Y or X < Y or X > Y