28/05/2021 Python basics 2

TOPIC: Artificial Intelligence with Python - INMOVIDU - Jahnavi N

GETTING STARTED WITH PYTHON PROGRAMMING

LOGICAL OPERATORS

Logical operators in Python are used for conditional statements are true or false. For AND operator – It returns TRUE if both the operands (right side and left side) are true For OR operator- It returns TRUE if either of the operand (right side or left side) is true For NOT operator- returns TRUE if operand is false

MEMBERSHIP OPERATORS

"in" TRUE if a value/sequence is present in an object A in B "not in" TRUE if a value/sequence is NOT present in an object A not in B

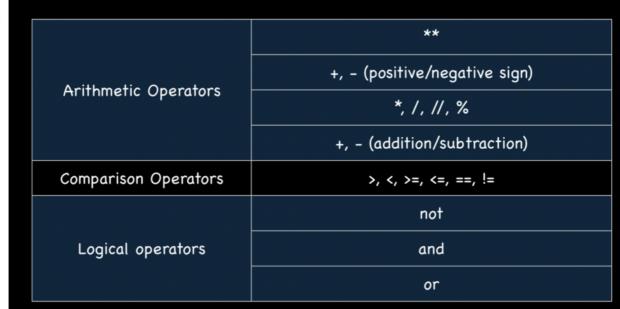
IDENTITY OPERATORS

The identity operators in Python are used to determine whether a value is of a certain class or typeis TRUE if both variables are actually the same object A is B is not TRUE if both variables are actually NOT the same object A is notB

7) PRECEDENCE

```
In [11]:
    from IPython import display
    display.Image("pre.png")
```

Out[11]:



8) Intendation

Indentation refers to the spaces at the beginning of a code line. Where in other programming languages the indentation in code is for readability only, the indentation in Python is very important. This intendation identifies the blocks it shows error if you skip any intendations

```
In [15]:
```

```
print("hello")
print("people")

hello
people
```

11) TAKING INPUTS

```
In [16]:
          name=input("enter name ")
          print("name is ",name)
         enter name jahnavi
         name is jahnavi
In [17]:
          x=float(input("enter number "))
         enter number 23.33
In [18]:
          print(type(x),x)
          <class 'float'> 23.33
In [19]:
          x, y=2,3
          print(x)
          print(y)
         2
         3
In [21]:
          x,y=input("enter ").split(",")
         enter 23,34
In [22]:
          print(x,y)
         23 34
```

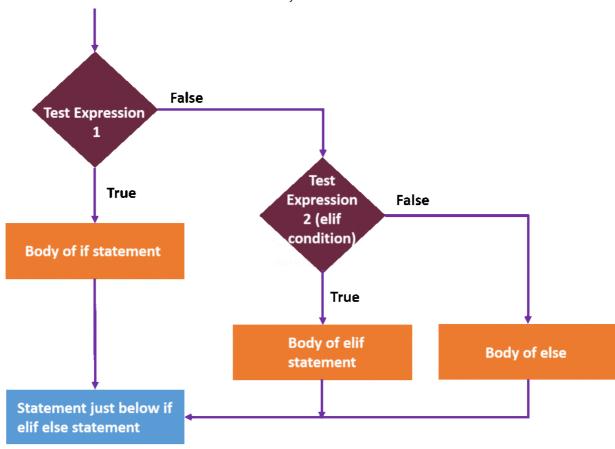
9) CONTROL STATEMENTS

Conditional Statement in Python perform different computations or actions depending on whether a specific Boolean constraint evaluates to true or false.

we use key words if ,else and elif

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```
x=x+5
           print(x)
          15
In [27]:
           #if - else statement
In [24]:
           from IPython import display
           display.Image("https://www.guru99.com/images/2013/04/if_then_flowchart.png")
Out[24]:
                                        Start
                       Yes
                                                        No
                                      Condition
                                        true?
                                                           Execute code in
           Execute code in
                                                              else block
               if block
                                     Execute code
                                    outside if block
In [25]:
           a=20
           b=50
           if(a>b):
               print("a >b")
           else:
               print("B<a")</pre>
          B<a
In [28]:
           v=2000
           if(v>=100 or v<500):
               print("print")
           else:
                print("not")
          print
 In [ ]:
           # NESTED IF " else -if " , "elif "
In [29]:
           display.Image("iff.png")
Out[29]:
```



```
In [30]:
    a=17
    b=22
    if(a==10):
        print("its 10")
    elif(a==12):
        print("12 ")
```

elif is short name for else - if statment so above code could be written as ..

```
In [31]:
    a=17
    b=22
    if(a==10):
        print("its 10")
    else:
        if(a==12):
            print("12 ")
        else:
            print("not 10 and 12")

In []:
In []:
```