eated by Reny Operators • Rehver

this notes is made by- Rehyan yadav

*logical and bitwise not operator on boolean

code:

#a python code that users logical not or! on #boolean

a= not true

reated by Rein

b=not true

print a

print b

*Bitwise NOT(or~)

Bitwise: denoting an operator in a programming language which manipulates the individuals bits in a byte or word.

*operator

*description

Bitwise AND

Bitwise OR Created by Helly Created by Helly XOR **Bitwise Bitwise** NOT se right shift

created by Rehyan Created by Rehyan Taday Created by Rehyan Vaday

J. Rehyan Taday J. Rehyan Taday J. Rehyan Taday

Result
, (O) O
U` 1
1
1

2 Input OR GATE		
Α	В	A + B
0	0	O
1	0	1
0	1	1
1	1	1
		202

*Ternary operators :it is also know as condition are

operator that evaluate something based on a condition being true or false.

Created by Kein

syntax: [on_true] if[expression]else

[on_false]

1)simple methode to use ternary operators

code:

```
DY Reny
  #program to demonstrate
                               condition operator
a,b = 10,20
  #copy value of a in min if a<b else copy b
           if a<b else b
  min =a
  print(min)
  2) direct method by using tuples dictionary and labda
  code:
  #python code to demonstrate
  a,b=10,20
  print((b,a)[a>b])
  print({true:a,false:b}[a<b])
  print((lambda : b,lambda: a)[a<b]))</pre>
  3)ternary operator can be written as nested if else
   code:
  a,b= 10, 20
  print("both a&b are equal ")
  if a==b else "a is greater than b"
  if a>b else "b is greater than a"
```

```
4)Increament and Decrement Operators

*for variable_name in range (**)

i)start**
i)start:Optional.an integer number specifying at
                  which position
                                     to start default is 0.
ii)stop:An int number specifying at which position
                  to end.
iii)step:Optional.An integer number specifying the
                   increment deafault 1.
code:
print('incriment for loop ")
for i in range(0,5):
 print i
print ("\n decrement for loop")
for i in range (4,-1,-1):
print i
* DIVISION operator in python
*code:(// real floor division)
 print(5//2)
```

```
DY Relia
                Created by Kelly
                                   Created by Helly
print(-5//2)
*code:
print (50/2)
print(-5.0/2)
python code:
print (5//2)
print (-5//2)
print (5.0//2)
print (-5.0//2)
*Any all in python
Any: returns true if any of the the items is true
              returns false if any of the items is false
syntax- any(list of literables)
code:
print(any([false,false,false,false]))
print(any([false,true,false,false]))
print(any([true,false,false,false]))
All: returns true if all the items are true or
literabels is empty.
```

```
DY Relly
                         DA YELLA,
                                     Created by Helly
 syntax : all(list of literables)
code:
 print(all([true,true,true,true]))
 print(all([false,true,true,false]))
 print(al([false,false,false]))
 practical examples
 #this code explains how can we use 'any' function
 #on list
 list 1=[]
 list 2=[] 0
 #index range from 1 to 10 to multiply
 for i in range(1,11):
list 1.append(4*i)
 for i in range(0,10):
 list2.append(list 1[i]%5==0)
 print('see whether at least one number is divisible
           by 5 in list 1=>')
      , Rahvan Yadav
 print(any(list=2)
```

*INPLACE VS STANDARD OPETRATOR IN PYTHON

- 1)The_add_method does simple addition, takes two agrument, returns the sum and stores it in other variable without modifying any of the argument.
- 2)_iadd_method also takes two arguments,but it makes in -plane change in 1st arguments passed by storing the sum in it.
- 3)normal opertor's "add()" method,impliments "a+b"
- 4)inplace operators "iadd()"method,implements "a+=b"

*Immutable targets: these are the objects that

can't

be changed

code:

import operator

x=5

y=6

d=5

```
b=6
z=operator.add(a,b)
                                     Created by Helly
  p=opeerator.add(x,y)
  print("value after adding using normal operator:",
  end=" ")
  print(z)
  print("value after adding using inplace operators:",
 print("value of first arguaments using inplace
operator:", end =" ")
print(X)
  operator:", end =" ")
print(X)
print(X)
```

*Mutable targets :objects which can changes state

inception.

a=[1,2,4,5]

import operator

code:

data after

Dahvan Vadav

```
z=operator.add(a,[1,2,3])
print("value after adding using normal operator:",
              end=" ")
print (z)
print("value of first argument using normal
            operator:",end =" ")
print(a)
p=operator.iadd(a,[1,2,3])
arrgument using inplace
                  operator:,end="")
print(a)
Set 1
1. add(a, b):- This functions returns addition of the
given arguments.
Operation – a + b.
```

2. sub(a, b) :- This functions returns difference of the given arguments.

Operation -a-b.

3. mul(a, b) :- This functions returns product of the given arguments.

Operation – a * b

4. truediv(a,b):- This functions returns division of the given arguments. dby Rehyal

Operation – a / b.

5. floordiv(a,b):- This functions also returns division of the given arguments. But the value is floored value i.e. returns greatest small integer.

Operation – a // b.

6. pow(a,b):- This functions returns exponentiation of the given arguments.

Operation – a ** b.

7. mod(a,b):- This functions returns modulus of the given arguments.

Operation – a % b

8. It(a, b): This function is used to check if a is less than b or not. Returns true if a is less than b, else returns false.

Operation -a < b.

9. le(a, b): This function is used to check if a is less than or equal to b or not. Returns true if a is less than or equal to b, else returns false.

Operation – a <= b.

10. eq(a, b): This function is used to check if a is equal to b or not. Returns true if a is equal to b, else returns false.

Operation – a == b

11. gt(a,b): This function is used to check if a is greater than b or not. Returns true if a is greater than b, else returns false.

Operation – a > b.

DY Relly DY Relia. 12. ge(a,b): This function is used to check if a is greater than or equal to b or not. Returns true if a is greater than or equal to b, else returns false.

Operation – $a \ge b$.

13. ne(a,b):- This function is used to check if a is not equal to b or is equal. Returns true if a is not equal to b, Created by Rehyan Taday Created by Rehyan Taday else returns false.

Operation – a != b. Created by Rehyan

code:

, Rahvan Yadav import operator

, Rahvan Yadav

a=4

```
b=3

print("addition of number is:",end=" ");

print(operator.add(a,b))

print("difference of number is:",end=" ")

print(operator.sub(a,b))

print("the product of number is:",end=" ");

print(operator.mul(a,b))
```

Set 1

1. setitem(ob, pos, val): This function is used to assign the value at a particular position in the container.

```
Operation – ob[pos] = val
```

2. delitem(ob, pos): This function is used to delete the value at a particular position in the container.

```
Operation – del ob[pos]
```

3. getitem(ob, pos):- This function is used to access the value at a particular position in the container.

```
Operation – ob[pos]
```

4. setitem(ob, slice(a,b), vals): This function is used to set the values in a particular range in the container.

Operation – obj[a:b] = vals

5. delitem(ob, slice(a,b)): This function is used to delete the values from a particular range in the container.

Operation - del obj[a:b]

6. getitem(ob, slice(a,b)): This function is used to access the values in a particular range in the container.

Operation - obj[a:b]

7. concat(ob1,obj2):- This function is used to concatenate two containers.

Operation – obj1 + obj2

8. contains(ob1,obj2):- This function is used to check if obj2 in present in obj1.

Operation - obj2 in obj1

9. and_(a,b) :- This function is used to compute bitwise

and of the mentioned arguments.

Operation – a & b

10. or_(a,b) :- This function is used to compute bitwise or of the mentioned arguments.

Operation – a | b

11. xor(a,b):- This function is used to compute bitwise xor of the mentioned arguments.

Operation – a ^ b

12. invert(a):- This function is used to compute bitwise inversion of the mentioned argument.

Operation - ~ a

<u>Difference between == and is operator</u> <u>in Python</u>

code:

python3 code to

```
# difference between

# == and is opera'

# [] is a
                                    Created by .kein
  list1 = []
  list2 = []
                                    Created by Rehyan Vaday
      ue")
print("False")
  list3=list1
  if (list1 == list2):
  if (list1 is list2):
       print("True")
  else:
       print("False")
                                           Dahvan Vadav
                         , Rahvan Vadav
  if (list1 is list3): 40000
```

```
ated by Reliy
                   reated by Rein's
                                     Created by Kelly
       print("True")
Celse:
       print("False")
  list3 = list3 + list2
                                       eated by Rehyan Taday
                     ated by Rehyan Taday
  if (list1 is list3):
       print("True")
  else:
       print("False")
```

this notes is made by- Rehyan yadav

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this number is for asking any doubt......

if you want to add more information ask

me or contact me.

then i will provide you the .txt file or .rtf file

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