Relational Operators:

06/11/23 Mon

An expression executed resing relational operators is called Boblean expression.

3 Boolean expression always exeturin Boolean values (T/F)

operators	Description.
>	gowater than
<	tess than
>=	violedter than or equal.
C= Tolow	less than or equal
==	Equal
1 /= waysa	Not equal.

> These operators use used to comparing Object values of

\$171) 1075 Toue.

Ef3- 10<5 False.

E957))10>=10 True

4277 40>30 Toue. 284 12>1 tou.

Eg 10>=5

Eg7>>> 10<= 10 Toue.

Egg 5 <= 10

Egg- 20 <=10

En075/10 == 10

Eg11:- 101=10 False. Eg: 12 10! = 20 Toue.

g.3 "B" > "A" Egy A">"B" (65) > (66) - ASCIT Value -> Toue. -) False * MORE THAN ONE OPERATOR WELAN WE:εp: - α = 5 εg: - α = 20 Egy) "a" > "A" D) 1< 20<=10 >>> 1 <= a< = 10 -> Tour · Troue. False 81: 5>=K=10 rede. About Tode, # Condetional operators: required 3 operands. conditional operator is used for executing conditional expression. -> Conditional operators allows evaluting expension based on conditional Hest. Syntex: (voulable-name) = oper if oper else oper3 Variable = opril éf opris else opris. False. 1 test/condition Soolean exph. # W.A.P to find a person is eligible to vote of not Som - name = enfect ("Enter Name") age = int (Enput (Enter the age")).

sæsult = f'sname's is elgible 'if age>=18 else f'& name's is not eligible to note. point (result). Eg2: # WAP to find input no is even of odd. Sely: - num = "int ("nput (" enter any value")) dem= num %2 (# reemender should be zero) a = f'Enum? is even' if sum == 0 else f'Enten? in och Buen Ha) 20 -even 15 - odd. Eg: - W.A.P to find max. of the numbers, nums = int (input ("cutes that no")) 90/m num 2= "n+ (in put ("enter, 2nd no")) num3 = sein 1 9 j num > num 2 ousult = f'Enums 3 & max' if numi> num 2 else f' Enum 23 is moix1. point (sesult) A Logical Operators: hogical operators ever used to combine town to more conditteons or boolean expuestion. In pethon logical operatou are represented every 3 keywords. 1) and -> Binary operator 27 09 -> Barary 3) not -> winary

1) and operator: Soth condition / All conditional thould be Bertlofted or Tone.

A touth table of and operator.

8/81	oper2	opril & oprie.
Tow	False	fale
False	Foreg	False
Palse	Falsy	false
Toue.	Towe	me.

EgypTome and Tomp &:- 10>5 and 5<10 woodness to some tous of granders

Eg: B) True and Falx False.

Eg: 20>10 and 5>10

(y)) false and Toup False

Eg: - 10>20 and 5 \$10 Land of the false.

W.A.P to read name of and 2 subject marks: # calculate total, any and result

30/n: name = in put ("cuta Name")

Sub 1 = "int ("nput ("enter sub1 marks"))

sub2 = 9n+ (Input (" enter Sub2 marks"))

total = sub1 + sub2

aug - total/2.

scesult = 4 pass " of sub1 > - 40 and sub> = 40 else "far !".

push / f" Name & name 3 Subject + Esub 13 subject 2 & Sub 23

Total Stotal ? El: - "A" and "B" Examples: Aug & aug: 2f3 Result & result 3"") Examples: - >>> loo and 200 Eg: - bed (100) 200 Eg: 0 and 200 g:- bool (0) ff - 100 and 200 and 300 Eg: 100 and 0 and 300 G: - "Jaug" and "python" c python' # W.A.P to # Logen Appln. Som: user = Poput (enter user name!) # nit Pand = input (" enter pasurois") # nit123 print ("rulcome") if user == "nit" and found == "nit123" else point ("invalled username or foessmord") enter user name: Newtam enter passud: nit123 inualid user more or passurand. enter user name: nit Cota paravoid: nit123 Welcome.

2) Or operator/keymord: - if any operated is True, the complete expression enturn vous.

Truth Table:

		A MARIE AND TOP AS TO THE
opes	opi2	opel or open
Toue	Tous	Toue
False	True	True.
False	Foolse	False
True	False	True.

> If open is "True", PVM return rewell of ofort we thous evaluting ofore.

-> if oper is "false", PVM establites opr 2 f section siesult

lg 1) Fac or false

eg:= falge or false,

g- False on False false.

Eg:- 100 02 200.

Ej: 100 or 200 or 300

Precedence of logical operator:

1) not 2) and 3> 08.

29 × 100 02 200 02 300

8:- 100 or 200 and 300

9/amples:- 17/100 05/200

89: - 000 and 300 05/00

g: 0 and 100 09 200