Day 13 Operators in python
-> Operators are symbols or keywords that tell  program to perform a specific operation on  program or more valuesleadled operands)
12 Arithmetic operation  + - * / Normal maths -> a+3, 3-2, 201, 2/3
% module: gives ou mainder 2% 3 == 22
pros Exponential: base to the power of another number 3 & 2 = 9
// Floor division = dividing 2 numbers 1 sounding the result down to the newnest  whole number  7/12 = 3.5 Hour = 3
2) Logical operation  2) Relational operation
== Equal to 2==3=s false
12 not equal to 2!=3=Tam
7 Grafer than 10/5 = Yes True       Smaller than 5/210 = Yes True

>= greater than or equal to 5>=4 True
?- greater marco
22 smaller than or equal to UL=5-Tau
3) Logical Operators
) register of
12 AND and-scheeks both is pueccorrect
NOR or - schieks one is correct
111 not
if False - 9 The
101.000
AND: The and false of False
NOT' mut This & Fage
OR: The or False - E True
221
u) Bitwise openators
And (1) binary AND do multiplication
And (1) binary AND do multiplication  5 = 101 in binary to with
2=10 in bindry 101 0+0 \$
1 x010 DDD-D
000 binary
OR (1) binary or
5 = lot in binary
2 = 010 in binary 000
1 bituise de delition ville
OR COTTON
x 0 Lo bincon value
000 [-11]
1 412+1 = 17 1 1 1 1 - 7

NOR (A 101 100 JOR gives 1 if two bits are different gives 0 if they are the same invorted 010-6 NOT (2) 5-1-101 2-7 0 10 101 -3 vinvented 010=02 5-161 LO1->5 2-> 010 (LO) 5 261 - 2010/26/ = 1010 TLL2 -4 0101 262 = 10100 multiple 1 time = a time = 3 time = 10 8+0+210 -> 5x 2' = 5x2 = 10 -22 ->5x21=5xy = 20 240

Right shift (28)
sight shift is the apposite of left shift
- SIT divides by power of 2  $208 \times 1 = 20/2! = 20/2 = 10$   $20 \times 2 = 20/2^2 = 20/4 = 5$   $20 \times 3 = 20/2^3 = 20/8 = 2$ take 5 >> 1 = 5/21 = 5/2 = = 5/22 = 5/4 = assignment operator assign value = [a=5] = # a is 5 a=5 += addandassign = a+= 2 = 5+2=7, a=7 creld An subdract and assign = a-= 2 = 5-2 = 3, a= 3 1= multiple and assign = a = = 5 x 2 = 10, a = 10 1= division and assign = a1=2 = 5/2 = 25 a=25 112 division and assign = all=2= 5/12= 2, a=2 8 #2 power and assign = a 88 = 2 = 5882 = 25, a = 25 21. = moduly and assign = a%=2 = 51.2=1, a=1