**Precedence & associativity**

**Precedence Priority**

1. ()
2. \*\*
3. Unary operator = the operator contains a single operand
4. \*,/,//,%
5. +,-
6. <<,>>
7. &
8. ^
9. |
10. Relational and membership operators
11. Not
12. And
13. Or

**x=5/5\*2+4-9%8//2\*\*5+(1+8)**  
**print(x) #15.0**

#(1+8)=9->5/5\*2+4-9%8//2\*\*5+9  
#2\*\*5=32->5/5\*2+4-9%8//32+9  
#5/5=1->1\*2+4-9%8//32+9  
#1\*2=2+4-9%8//32+9  
#9%8=1->2+4-1//32+9  
#1//32=0->2+4-0+9  
#2+4=6->6-0+9  
#6-0=6->6+9  
#6+9=15

**Associativity Priority :** used when there are operators which takes the same precedence priority

1. Right to left evaluation: \*\* only

**print(2\*\*2\*\*6)** #18446744073709551616  
#2\*\*6=64 -> 2\*\*64  
#2\*\*64=18446744073709551616

1. Left to right evaluation : if same operators that have same precedence priority or different operator that has same precedence priority

**print(50-21-12**) #17  
#50-21=29  
#29-12=17  
  
**print(50/21\*12**)#28.57142857142857  
#50/21=2.380952380952381  
#2.380952380952381\*12=28.57142857142857