Arithmetic operator In [1]: x1, y1 = 10, 5In [2]: x1 + y1 Out[2]: 15 In [3]: x1 -y1 Out[3]: 5 In [4]: x1/y1 Out[4]: 2.0 In [5]: x1//y1 Out[5]: 2 In [7]: x1%**y1** Out[7]: 0 In [9]: x1**y1 Out[9]: 100000 In [10]: x2 = 3y2 = 3 x2 ** y2 Out[10]: 27 Assignment operator In [11]: x = 2In [12]: x = x+2In [13]: x Out[13]: 4 In [24]: x += 2 Out[24]: 20 In [25]: x *= 2 Out[25]: 40 In [26]: x -= 2 Out[26]: 38 In [27]: x /=2 Out[27]: 19.0 In [28]: x //=2 In [29]: x Out[29]: 9.0 In [30]: a, b =5,6 print(a) print(b) In [31]: a Out[31]: 5 In [32]: b Out[32]: 6 In [33]: n = 7Out[33]: 7 In [34]: m =- (n) Out[34]: -7 In [35]: n Out[35]: 7 In [36]: -n Out[36]: -7 Relational operator In [37]: a = 5 In [38]: a<b Out[38]: True In [39]: a>b Out[39]: False In [40]: a == b Out[40]: False In [41]: a != b Out[41]: True In [42]: b = 5In [43]: b Out[43]: 5 In [44]: a == b Out[44]: True In [45]: a Out[45]: 5 In [46]: b Out[46]: 5 In [47]: a>b Out[47]: False In [48]: a>=b Out[48]: True In [49]: a<b Out[49]: False In [50]: a>b Out[50]: False In [51]: b=7 In [52]: a!=b Out[52]: True In [55]: a = 5 In [56]: a<8 and b<5 Out[56]: True In [57]: a<8 and b<2 Out[57]: False In [59]: a<8 and b<2 Out[59]: False In [60]: a<8 or b<2 Out[60]: True In [61]: a>8 or b<2 Out[61]: False In [63]: x = FalseOut[63]: False In [64]: **not** x Out[64]: True In [65]: x = not xOut[65]: True In [66]: x Out[66]: True In [67]: **not** x Out[67]: False Number system In [68]: 25 Out[68]: 25 In [69]: bin(25) Out[69]: '0b11001' In [70]: int(25) Out[70]: 25 In [73]: int(0b11001) Out[73]: 25 In [74]: bin(30) Out[74]: '0b11110' In [75]: int(0b11110) Out[75]: 30 In [76]: int(0b11001) Out[76]: 25 In [77]: oct (25) Out[77]: '0o31' In [78]: int(0o31) Out[78]: 25 In [79]: int(0b11110) Out[79]: 30 In [80]: 0o31 Out[80]: 25 In [81]: 0b1101 Out[81]: 13 In [82]: int(0b1101) Out[82]: 13 In [83]: bin(7) Out[83]: 'Ob111' In [85]: oct (25) Out[85]: '0o31' In [86]: int(0o31) Out[86]: 25 In [87]: hex(25) Out[87]: '0x19' In [88]: hex(16) Out[88]: '0x10' In [90]: 0xa Out[90]: 10 In [91]: 0xb Out[91]: 11 In [92]: hex(1) Out[92]: '0x1' In [93]: hex(25) Out[93]: '0x19' In [94]: hex(256) Out[94]: '0x100' In [95]: 0x15 Out[95]: 21 Swap 2- variables In [96]: a = 5 b = 6 In [97]: a=b In [98]: print(a) In [99]: a1 = 7 b1 = 8 In [100... temp = a1 a1 = b1 b1=temp In [101... print(a1) print(b1) 8 In [102... a2 = 5 b2 = 6 In [103... a2 = a2+b2 b2 = a2-b2a2 = a2-b2In [104... print(a2) print(b2) 6 In [105... 0b110 Out[105... 6 In [106... | 0b101 Out[106... 5 In [107... print(0b110) print (0b101) In [108... print(bin(11)) print (0b1011) 0b1011 11 In [109... print(a2) print(b2) 6 In [110... a2 = a2^b2 $b2 = a2^b2$ a2 = a2**^**b2 In [111... print(a2) print(b2) 5 In [112... a2,b2 Out[112... (5, 6) In [113... a2,b2=b2,a2 In [114... print(a2) print(b2) Bitwise operator In [115... print(bin(12)) print(bin(13)) 0b1100 0b1101 In [116... ~12 Out[116... -13 ~46 Out [117... -47 In [118... **~**54 Out[118... -55 In [119... ~10 Out[119... -11 In [120... | 12&13 Out[120... 12 In [121... | 12|13 Out [121... 13 In [122... 1&0 Out[122... 0 In [123... 1|0 Out[123... 1 In [124... bin(13) '0b1101' Out [124... In [125... print(bin(35)) print(bin(40)) 0b100011 0b101000 In [126... 35&40 Out[126... 32 bin(35) Out[127... '0b100011' In [128... bin(40) Out[128... '0b101000' In [129... bin(32) Out[129... 'Ob100000' In [130... 35|40 Out[130... 43 In [131... bin(101011) Out[131... '0b11000101010010011' In [132... bin(43) Out[132... '0b101011' In [133... 12**^1**3 Out[133... 1 In [134... print (bin (25)) print(bin(30)) 0b11001 0b11110 In [135... 25³0 Out[135... 7 In [136... bin(25) Out[136... 'Ob11001' In [137... bin(30) Out[137... 'Ob11110' In [138... 10<<1 Out[138... 20 In [140... 10<<2 Out [140... 40 In [141... 20<<4 Out[141... 320 In [142... bin(10) Out[142... 'Ob1010' In [143... | 10>>1 Out[143... 5 In [144... 10>>2 Out[144... 2 In [145... 10>>3