1) The two values of Boolean Data type are: a) TRUE b) FALSE In [3]: a = 3+6 b = 9 print(a == b)True In [4]: a = 3+6 b = 9 print(a != b) False 2) In []: # The three types of Boolean Operators are: and or not ^ #X0R 3) In [6]: # *AND* print('1. ',True and False) print('2. ',True and True)
print('3. ',False and False) 1. False 2. True 3. False In [7]: # OR print('1. ', True or False) print('2. ', True or True) print('3. ', False or False) 1. True 2. True 3. False In [9]: # Not print('1. ', not True)
print('2. ', not False) 1. False 2. True In [13]: # XOR print('1. ',True ^ True) print('2. ',True ^ False) print('3. ',False ^ False) 1. False 2. True 3. False 4) In [15]: print((5 > 4) and (3 == 5))False In [17]: print(not (5 > 4)) False In [19]: print((5 > 4) or (3 == 5))True In [20]: print(not ((5 > 4) or (3 == 5)))False In [21]: print((True and True) and (True == False)) False In [22]: print((not False) or (not True)) True 5) In []: | # The 6 comparison operators are: == #Equal to > #Greater than >= #Greater than equal to < #Less than <= #Less than equal to != #Not equal to 6) In [31]: Assignment Operator assigns a value to variable. Equals operator justifies if a statement is True or not. a = 10 #assignment b = 10 #assignment print(a == b) #equals operator True 7) In [42]: spam = 0 **if** spam == 10: print('eggs') **if** spam > 5: print('bacon') else: print('ham') print('spam') print('spam') ham spam spam 8) In [44]: spam = 1 **if** spam == 1: print('Hello') elif spam == 2: print('Howdy') else: print('Greetings!') Hello In [45]: spam = 2 **if** spam == 1: print('Hello') elif spam == 2: print('Howdy') else: print('Greetings!') Howdy In [46]: spam = 3 **if** spam **==** 1: print('Hello') elif spam == 2: print('Howdy') else: print('Greetings!') Greetings! 9) Ctrl + C interrupts the execution of a cell that's stuck in an infinite loop. 10) In [52]: #break is used to terminate the loop prematurely when a specific condition is met for i in range(10): **if** i == 5: break print(i) 1 2 3 In [53]: #continue is used to skip the rest of the current iteration and move to the next iteration of the loop when a specific condition is met. for i in range(6): **if** i == 3: continue print(i) 0 1 2 4 5 11) In [55]: for i in range(10): #print 10 numbers print(i) 1 2 3 In [60]: **for** i **in** range(0,10): #start and end points print(i) 0 1 In [63]: for i in range(0,10,1): #start,end,step print(i) 0 1 2 3 9 12) In [64]: #For Loop for i in range(1,11): print(i) 1 2 9 10 In [73]: #While Loop a = 1 while a<=10: print(a) a = a+11 2 8 9 10 13) In []: spam.bacon() In []: