```
1
 2
    a = 5
 3
    b = 10
 4
    if a>b:
 5
         print("a more than b")
 6
 8
    a = 5
    b = 10
 9
10
     if a>b:
11
         print("a more than b")
12
     else:
13
         print("b more than a")
     print("out of if")
14
15
     # if ...elif .. else
16
17
    a = 10
18
    b = 10
     if a>b :
19
20
         print("a more than b")
21
     elif a<b:
22
         print("b more than a")
23
     else:
         print("a and b are equal")
24
25
26
     print("out of if")
27
28
     # nested if (example 1)
     a = 10
29
    b = 10
30
31
     if a>b:
         print("a more than b")
32
33
     else:
34
         if b>a:
             print("b more than a")
35
36
         else:
             print("they are equal")
37
38
         print("something")
39
     print("out of if")
40
41
42
     # nested if (example 2)
43
    a = 2
     if a > 5:
44
45
         print("above 5")
         if a>15:
46
47
             print("and above 15")
48
         else:
             print("but not above 15")
49
50
```

8/14/25, 10:50 PM 10 if

```
# operations within if:
51
52
    # to get a number between two integers:
53
    x = 8
    if x>0:
54
        if x<10:
55
             print("x is between 0 and 10.")
56
57
58
    if x<10:
59
        if x>0:
             print("x is between 0 and 10.")
60
61
62
    if x >0 and x<10: #checks both conditions, both must be true to execute the if
63
        print("it is between 0 and 10.")
64
65
    if x<10 and x>0 and x\neq 5: # we can use "and" operator as much as we need
66
67
        print("it meets all conditions")
68
69
    # or operator:
    a = 70
70
71
    b = 40
72
    c = 30
73
    if (a < c) or (b < c): # needs only one condition to return true for the if to
    be executed
        print("at least one of a or b is less than c")
74
75
    else:
        print("both are more than c.")
76
```