

Nested if statements

An `if`, `elif` or `else` block can have another if block in it. We refer to this as a nested if.

Here is an example:

1. If $x > 1$ print 'More than one' and then check if y is even. If y is even, print the product of x and y.
2. If y is odd print the sum of x and y.
3. If x is not greater than 1 print 'Less than 1' and then check if y is a multiple of 3.
4. If it is, print a message saying so otherwise print a message that y is not a multiple of 3.
5. Print 'All Done' at the end, no matter what the value of x and y are.

In [1]:

```
x = int(input('Enter the value for x: '))
y = int(input('Enter the value for y: '))
if x > 1:
    print('More than one')
    if y % 2 == 0:
        print(x * y)
    else:
        print(x + y)
else:
    print('Less than one')
    if y % 3 == 0:
        print('{0} is a multiple of 3'.format(y))
    else:
        print('{0} is not a multiple of 3'.format(y))

print('All Done')
```

```
Enter the value for x: 35
Enter the value for y: 25
More than one
60
All Done
```