

```
1  '''
2  Example of python debugging logging
3  '''
4  #
5  import logging
6  logging.basicConfig(level=logging.DEBUG, format='%(asctime)s - %(levelname)s - %(message)s') # logs to the terminal
7  # or:
8  # logging.basicConfig(filename='myProgramLog.txt', level=logging.DEBUG, format='%(asctime)s - %(levelname)s - %
   (message)s') # logs to a text file
9
10 # logging.disable(logging.CRITICAL) # when active, disables debug-logging
11
12 logging.debug('Start of program')
13
14 def factorial(n):
15     logging.debug('Start of factorial(%s)' % (n))
16     total = 1
17     for i in range(1, n + 1):
18         total *= i
19         logging.critical('i is %s, total is %s' % (i, total))
20
21     logging.debug('return value is %s' % (total))
22     return total
23 print(factorial(5))
24
25 logging.debug('End of program')
26 '''
27 RESULT:
28 2018-08-04 22:08:56,252 - DEBUG - Start of program
29 2018-08-04 22:08:56,265 - DEBUG - Start of factorial(5)
30 2018-08-04 22:08:56,270 - CRITICAL - i is 1, total is 1
31 2018-08-04 22:08:56,277 - CRITICAL - i is 2, total is 2
32 2018-08-04 22:08:56,282 - CRITICAL - i is 3, total is 6
33 2018-08-04 22:08:56,287 - CRITICAL - i is 4, total is 24
34 2018-08-04 22:08:56,293 - CRITICAL - i is 5, total is 120
35 2018-08-04 22:08:56,298 - DEBUG - return value is 120
36 120
37 2018-08-04 22:08:56,309 - DEBUG - End of program
38 '''
```