Dick Moores

```
Here are 3 examples of syntax errors:
>>> print('and)
Traceback (most recent call last):
  File "<string>", line 1, in <fragment>
Syntax Error: print('and): <string>, line 112
>>> if 3 > 2
    print(3)
. . .
Traceback (most recent call last):
  File "<string>", line 1, in <fragment>
Syntax Error: if 3 > 2: <string>, line 19
>>> if 34 345:
       print(34)
. . .
Traceback (most recent call last):
  File "<string>", line 1, in <fragment>
Syntax Error: if 34 345:: <string>, line 19
But could someone give me a clearcut example of a semantic error? And
a definition that delineates semantic errors from syntax errors.
I googled this one up,
http://ubuntuforums.org/showthread.php?t=527855, where the guy uses
'&' where he should have used 'and'. That's clearcut, but is it really
a semantic error? If he had used, say, '!' where he used '&' (which it
seems has meaning in that context), that would be a syntax error,
right?
>>> if 3 == 3 & 4 > 3:
    print("Duh")
. . .
>>>
>>> if 3 == 3 ! 4 > 3:
      print("Doh!")
. . .
Traceback (most recent call last):
  File "<string>", line 1, in <fragment>
Syntax Error: if 3 == 3 ! 4 > 3:: <string>, line 111
Is a semantic error one that Python doesn't see as an error -- no
error is raised; whereas syntax errors aren't errors unless Python
sees them as "Syntax Error"s?
Thanks,
```

https://mail.python.org/pipermail/tutor/2011-January/081487.html