

```
1 """
2 scope.py
3 @author: ITP 150 Student
4 Created Current Date
5 This program illustrates variable scope when using functions and
6 the use of the seldom used global keyword
7 """
8
9
10 x = 7 # sets x at a global scope
11
12
13 def main():
14     # x = 7
15     access_global()
16     try_to_modify_global()
17     print('x printed after try_to_modify_global is', x)
18     modify_global()
19     print('x printed after modify_global', x)
20     try_to_modify_global()
21
22
23 def access_global():
24     print('x printed from access_global:', x)
25
26
27 def try_to_modify_global():
28     x = 3.5 # local scope which overrides a global scope for x
29     print('x printed from try_to_modify_global', x)
30
31
32 def modify_global():
33     global x
34     x = 'hello'
35     print('x printed from modify global:', x)
36
37
38 if __name__ == '__main__':
39     main()
40
```