Programming in Python (CSE 3142) MINOR ASSIGNMENT-5: SCOPE

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1. Study the program segments given below. Give the output produced, if any.
  i. globalVar = 10
     def test():
       localVar = 20
        print('Inside function test: globalVar =', globalVar)
        print('Inside function test: localVar =', localVar)
      test()
     print('Outside function test: globalVar =', globalVar)
     print('Outside function test: localVar =', localVar)
  ii. globalVar = 10
     def test():
        localVar = 20
        globalVar = 30
        print('Inside function test: globalVar =', globalVar)
        print('Inside function test: localVar =', localVar)
     print('Outside function test: globalVar =', globalVar)
  iii. globalVar = 10
     def test():
        global global Var
       localVar = 20
        globalVar = 30
       print('Inside function test: globalVar =', globalVar)
       print('Inside function test: localVar =', localVar)
     test()
      print('Outside function test: globalVar =', globalVar)
  iv. def test1():
        test1.a = 10
        def test2():
          test1.a = 8
          print('Inside function test2', test1.a)
        print('Outside function test2', test1.a)
        test1()
  v. a = 4
     def f():
        a = 5
        def g():
          nonlocal a
          a = 10
          print('Inside function g, ', 'a=', a)
          def h():
            nonlocal a
            a = 20
            print('Inside function h, ', 'a=', a)
          h()
```

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g()
    print('Inside function f, ', 'a=', a)
    f()
vi. x = 2
    def test():
    x = x+1
    print(x)
    print(x)
vii. x = 2
    def test():
        global x
        x = x+1
        print(x)
    print(x)
```