

Programming in Python (CSE 3142)

MINOR ASSIGNMENT-5: SCOPE

1. Study the program segments given below. Give the output produced, if any.

```
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)
```

2. Study the program segments given below. Give the output produced, if any.

```
globalVar = 10
def test():
    localVar = 20
    globalVar = 30
    print('Inside function test : globalVar =', globalVar)
    print('Inside function test : localVar =', localVar)
test()
print('Outside function test : globalVar =', globalVar)
```

3. Study the program segments given below. Give the output produced, if any.

```
globalVar = 10
def test():
    global globalVar
    localVar = 20
    globalVar = 30
    print('Inside function test : globalVar =', globalVar)
    print('Inside function test : localVar =', localVar)
test()
print('Outside function test : globalVar =', globalVar)
```

4. Study the program segments given below. Give the output produced, if any.

```
def test1():
    test1.a = 10
    def test2():
        test1.a = 8
        print('Inside function test2: ', test1.a)
    test2()
    print('Outside function test2 ', test1.a)
test1()
```

5. Study the program segments given below. Give the output produced, if any.

```
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()
    g()
    print('inside function f,', 'a = ', a)
f()
```

6. Study the program segments given below. Give the output produced, if any.

```
x = 2
def test():
    x = x + 1
    print(x)
print(x)
```

7. Study the program segments given below. Give the output produced, if any.

```
x = 2
def test():
    global x
    x = x + 1
    print(x)
print(x)
```

*****END*****