Introduction to Python II Exercises 01 (sample program answers)

Remember that you can come out with a different way to solve the exercises

At the beginning while you are getting acquainted with programming and with Python as a programming language your objective is to produce a suitable RESULT. As you get more experience, you will be able to apply your python knowledge to write elegant code. But for the time being focus on the results.

1

```
def bal_inc(increment):

    global balance
    balance += increment

def bal_dec(decrement):

    global balance
    balance -= decrement


balance = 0
increment = 5
decrement = 3

for i in range(3):
    bal_inc(increment)


for i in range(2):
    bal_dec(decrement)

print("Final balance: ", balance)
```

2

```
def multiprodavg(*args):

   if args:

       result = 1
       count = len(args)

       for x in args:
           result *= x

       return result/count

   else:

       return 0
```

3

```
#Using the max() function to find largest element of a list

def find_large(*args):

    largest_i = 0

    for x in args:
        if max(x) > largest_i:
            largest_i = max(x)
            max_list = x

    print("Largest value: ", largest_i, "in list: ", max_list)


find_large([1,4,3], [8,0,0],[2,2,5])
```

4

```
def navigator(**kwargs):

    up = kwargs.get('up', 0)
    down = kwargs.get('down', 0)
    right = kwargs.get('right', 0)
    left = kwargs.get('left', 0)

    x = right - left
    y = up - down

    return x, y


print("Navigator Function")
x,y = navigator(up=6, right=1, down=2)

print("Final position: {},{}".format(x,y))
```