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 Python as a 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 balInc(inc):
    global myBalance
    myBalance += inc

def balDec(dec):
    global myBalance
    myBalance -= dec

myBalance = 10

origBalance = myBalance

increment = int(input("Enter the increment value: "))
incTimes = int(input("Enter the number of times to increment: "))

decrement = int(input("Enter the decrement value: "))
decTimes = int(input("Enter the number of times to decrement: "))

for i in range(incTimes):
    balInc(increment)

for i in range(decTimes):
    balDec(decrement)

print("Original Value: {}, Incremented by: {}, Decremented by: {},
Total: {}".format(origBalance, incTimes*increment,
decTimes*decrement, myBalance))
```

2

```
def multiprodavg(*args):
    result = 1
    count = 0

    for x in args:
        result *= x
        count += 1
    return result/count

print("Result: ", multiprodavg(1,2,3,4))
print("Result: ", multiprodavg(88,77,66))
print("Result: ", multiprodavg(-1,1,-1,1))
print("Result: ", multiprodavg(*[33,22,55,7,8,1,9]))
```

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 multiop(*numb, **op):
    result = 0
    value = op.get('action')

    if value == '+':
        for i in numb:
            result += i

    elif value == '-':
        for i in numb:
            result -= i

    elif value == '*':
        result = 1

        for i in numb:
            result *= i

    return result


print(multiop(1,2,3,action='+'))
print(multiop(8,10,-20,action='-'))
print(multiop(2,3,4,action='*'))
```

5. time.time()

```
import time

starttime = time.time()

myword = input("Please enter a word of your choice: ")

endtime = time.time()

print("It took you approx {:.2f} secs".format(endtime - starttime) )
```

6. time.asctime()

```
import time

def header_log(name):
    theDate = time.asctime()
    theDate = theDate[0:10] + ' ' + theDate[-4:]
    print("Date: {}  Welcome: {}".format(theDate, name))

theName = input("Please enter a name to start the log: ")

header_log(theName)
```

7. time.sleep()

```
import time

def slowprint(mystring, speed):
    for letter in mystring:
        print(letter, end='')
        time.sleep(speed)


slowprint("hello how are you", 1)
```