```
class Neuron:
1
2
        def __init__(self, x_inputs, weights):
3
            self.x_inputs = x_inputs
            self.weights = weights
5
            self.weighted_ins = []
6
            self.total = None
7
            self.acti = None
8
9
        def adder(self):
            for i in range(0, len(self.x_inputs)):
10
11
                self.weighted_ins.append(self.x_inputs[i]*self.weights[i])
12
            self.total = sum(self.weighted_ins)
            return self.total
13
14
15
        def relu_act(self, acti=0):
            self.acti = acti
16
            if self.total > self.acti:
17
18
                return self.total
19
            else:
20
                return 0
    import random
1
1
    def gen_Random_Vals(list_len, low, high):
        rand_list = []
2
3
        for i in range(0, list_len):
4
            n = random.randint(low,high)
5
            rand_list.append(n)
6
        return rand_list
1
    list_len = 5
    r_xin = []
3
    r_w = []
   r_xin = gen_Random_Vals(list_len, -10, 10)
   r_w = gen_Random_Vals(list_len, -1, 1)
   myList = Neuron(r_xin,r_w)
1 myList.x_inputs
    [6, -4, 4, -6, 6]
1 myList.weights
    [-1, -1, 1, 0, 0]
1 myList.adder()
    2
1 myList.weighted_ins
    [-6, 4, 4, 0, 0]
1 myList.relu_act()
    2
1
    --NORMAL--
```