```
class Neuron:
    def __init__(self, x_inputs, weights):
        self.x_inputs = x_inputs
        self.weights = weights
        self.weighted_ins = []
        self.total = None
        self.acti = None

    def adder(self):
        for i in range(0, len(self.x_inputs)):
            self.weighted_ins.append(self.x_inputs[i]*self.weights[i])
        self.total = sum(self.weighted_ins)
        return self.total

    def relu_act(self, acti=0):
        self.acti = acti
        if self.total > self.acti:
            return self.total
        else:
            return 0

import random

def gen_Random_Vals(list_len, low, high):
    rand_list = []
    for i in range(0, list_len):
        n = random.randint(low,high)
        rand_list.append(n)
    return rand_list

list_len = 5
r_xin = []
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)

myList.x_inputs
```

```
[6, -4, 4, -6, 6]
```

```
myList.weights
```

```
[-1, -1, 1, 0, 0]
```

```
myList.adder()
```

```
2

myList.weighted_ins

[-6, 4, 4, 0, 0]

myList.relu_act()

2

len = 10
x = []
w = []

x = gen_Random_Vals(len, -20, 20)
w = gen_Random_Vals(len, -5, 5)

myList2 = Neuron(x,w)

myList2.x_inputs

[4, -12, -1, -20, 10, -17, 18, 5, 8, -5]

myList2.weights

[-1, 2, -5, 5, 4, -5, -3, -3, 4, -3]

myList2.adder()

---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call
last)
<ipython-input-141-b24b1af47be4> in <cell line: 1>()
----> 1 myList2.adder()

<ipython-input-133-d506b0275d1d> in adder(self)
      8
      9     def adder(self):
---> 10         for i in range(0, len(self.x_inputs)):
     11
self.weighted_ins.append(self.x_inputs[i]*self.weights[i])
     12         self.total = sum(self.weighted_ins)

TypeError: 'int' object is not callable

myList
```