

# Day 1:

- learn basic of python
- reference:
  - <https://trutorialpoint.com>
  - <https://stackoverflow.com>
  - <https://youtube.com>
- getting started with leap motion sensor
  - <https://leapmotion.com/setup>
  - <https://developer.leapmotion.com/documentation/python>

# Day 2:

- starting programming with leap motion sensor which detect alphabet from figure position and direction
- I have used two factor figures tip position and position of center of palm (tip position palm center position)
- So I could get the position of tip with respect to palm center so it doesnt effect the change in position of hand with respect to sensor
- I take 300 reading and make its average.
- Here I got one problem which I couldnt solve that day.
- The problem is like,
  - I was storing data to object. But I am new to python so by mistake I was just passing the pointer the object it not copied but only pointer was passing
  - So whenever the data is changed, that reflected at all object. I was confused why that was happening.

# Day 3:

- Today I solved that object coping problem. By this way  
Initially:  
`letter.fing1 = SimpleListener.fr1`  
`letter.fing2 = SimpleListener.fr2`  
Finally:  
`letter.fing1 = copy.deepcopy(SimpleListener.fr1)`  
`letter.fing2 = copy.deepcopy(SimpleListener.fr2)`
- Then finally my program work. There were two option l and c. l means load and c means check.

- So first load the posture of letter and then we can check
- and this is the readings

A	1 1 1 1 1 1 1 1
B	1 1 1 1 1 1 1 1
C	1 0 0 1 1 1 1 1
D	0 1 1 1 1 1 1 1
E	1 1 1 1 1 1 1 1
F	0 1 1 1 0 1 1 1
G	0 0 1 1 1 1 1 1
H	1 1 1 1 1 1 1 1
I	1 1 1 1 1 1 1 1
J	0 1 1 1 1 1 1 0
K	1 1 1 1 0 1 1 1
L	1 1 1 1 1 1 1 1
M	1 1 1 1 1 1 1 1
N	0 1 1 0 0 1 1 1
O	1 1 0 1 1 1 1 1
P	1 0 1 1 1 1 1 0
Q	1 1 1 1 1 0 1 1
R	0 1 0 1 0 0 0 1
S	1 1 1 1 1 1 1 1
T	1 1 1 1 1 1 1 1
U	1 0 1 1 1 1 1 1
V	1 1 1 1 1 1 1 1
W	1 1 1 1 1 1 1 1
X	1 1 1 1 1 1 1 1
Y	1 1 1 1 1 1 1 1
Z	0 1 1 1 1 1 1 1