In [81]:
```
import tensorflow as tf
import numpy as np
```

In [82]:
```
n_f=10
n_neuron=3
```

In [83]:
```
X=tf.placeholder(tf.float32,[None,n_f],name="place_X")
```

In [84]:
```
w=tf.Variable(tf.random_normal([n_f,n_neuron]))
```

In [85]:
```
b=tf.Variable(tf.ones(n_neuron))
```

In [86]:
```
XW=tf.matmul(X,w)
```

In [87]:
```
z=tf.add(XW,b)
```

In [88]:
```
a=tf.sigmoid(z)
init=tf.global_variables_initializer()
```

In [89]:
```
with tf.Session() as sess:
    writer=tf.summary.FileWriter("check1",sess.graph)  #this wil create the file newOutput
    sess.run(init)
    out=sess.run(a,feed_dict={X:np.random.random([1,n_f])})
```

In [90]:
```
out   #output has 3 values
```

Out[90]:
```
array([[0.82512105, 0.7882712 , 0.70911723]], dtype=float32)
```