```
 1  import tensorflow as tf
 2
 3  # define the computational graph
 4  X = tf.constant([[1,1,1],[2,2,2]])
 5  print(X)
 6  # Tensor("Const:0", shape=(2, 3), dtype=int32)
 7  XtX = tf.matmul(tf.transpose(X), X)
 8  print(XtX)
 9
10  # run the computational graph
11  sess = tf.Session()
12  print( sess.run(XtX) )
13  # [[5 5 5]
14  #  [5 5 5]
15  #  [5 5 5]]
```