```
Weights = tf.Variable(tf.random_uniform([1], -1.0, 1.0))

biases = tf.Variable(tf.zeros([1]))

y = Weights*x_data + biases
```

```
loss = tf.reduce_mean(tf.square(y-y_data))



optimizer = tf.train.GradientDescentOptimizer(0.5)

train = optimizer.minimize(loss)
```

```
init = tf.global_variables_initializer()


sess = tf.Session()

sess.run(init)          # Very important
```

```
for step in range(201):

    sess.run(train)

    if step % 20 == 0:

        print(step, sess.run(Weights), sess.run(biases))
```