

SELF DRIVING CAR

LOADING AND SPLITTING THE DATASET (70:30)

In [0]:

```
import cv2
```

In [0]:

```
import scipy.misc
import random

xs = []
ys = []

#points to the end of the last batch
train_batch_pointer = 0
val_batch_pointer = 0

#read data.txt
with open("driving_dataset/data.txt") as f:
    for line in f:
        xs.append("driving_dataset/" + line.split()[0])
        #the paper by Nvidia uses the inverse of the turning radius,
        #but steering wheel angle is proportional to the inverse of turning radius
        #so the steering wheel angle in radians is used as the output
        ys.append(float(line.split()[1]) * scipy.pi / 180)

#get number of images
num_images = len(xs)

train_xs = xs[:int(len(xs) * 0.7)]
train_ys = ys[:int(len(xs) * 0.7)]

val_xs = xs[-int(len(xs) * 0.3):]
val_ys = ys[-int(len(xs) * 0.3):]

num_train_images = len(train_xs)
num_val_images = len(val_xs)
```

In [0]:

```
from PIL import Image
import numpy as np
```

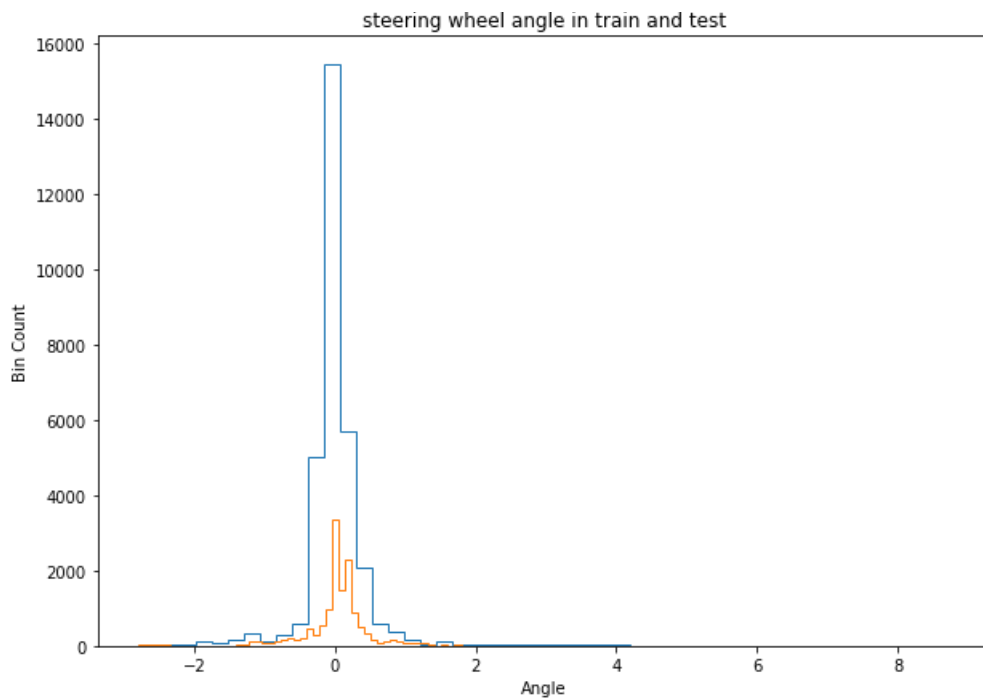
In [0]:

```
print(num_train_images)
print(num_val_images)
```

```
31784
13621
```

In [0]:

```
import matplotlib.pyplot as plt
fig= plt.figure(figsize=(10,7))
plt.hist(train_ys,bins=50 , histtype="step")
plt.hist(val_ys,bins=50 , histtype="step")
plt.title("steering wheel angle in train and test")
plt.xlabel('Angle')
plt.ylabel('Bin Count')
plt.show()
```



AS YOU CAN see most of the TIME IS ANGLE 0 because the car is moving straight most of the time

In [0]:

```
def LoadTrainBatch(batch_size):
    global train_batch_pointer
    x_result = []
    y_result = []
    for i in range(batch_size):
        read_image = cv2.imread(train_x[(train_batch_pointer + i) % len(train_x)]) #here %
len(train_x) is used to make sure that
        # "train_batch_pointer + i" should not cross the number of train images. As soon as the
value of "train_batch_pointer" is
        # equal to number of train images then it will again start reading the train images from
the beginning means from 0th
        # index onwards.
        read_image_road = read_image[-150:] #here, we are taking only the lower part of the images
where there is a road in the
        # image. As, we are concern only with the curves of the road to predict angles so
therefore, we are discarding the upper
        # part of the image. Hence, here "-150" is equivalent to the last 150 matrix pixels of the
image.
        read_image_resize = cv2.resize(read_image_road, (200, 66)) #After, resizing, each image wil
l be of size (66, 200, 3).
        # now since we have kept only the last 150 matrices in the image so the size of our image i
s now (150, 455, 3).
        # Now 455/150 = 3.0303. Also 200/66 = 3.0303. Hence, here we are keeping the aspect ratio o
f images same.
        read_image_final = read_image_resize/255.0 #here, we are normalizing the images

        x_result.append(read_image_final) #finally appending the image pixel matrix

        y_result.append(train_y[(train_batch_pointer + i) % len(train_y)]) #appending corresponding
labels

    train_batch_pointer += batch_size

    return x_result, y_result

def LoadTestBatch(batch_size):
    global test_batch_pointer
    x_result = []
    y_result = []
    for i in range(batch_size):
        read_image = cv2.imread(test_x[(test_batch_pointer + i) % len(test_x)]) #here % len(test_x)
is used to make sure that
        # "test_batch_pointer + i" should not cross the number of test images. As soon as the value
of "test_batch_pointer" is
        # equal to number of test images then it will again start reading the test images from the
```

```

beginning means from 0th
    #index onwards.
    read_image_road = read_image[-150:] #here, we are taking only the lower part of the images
where there is a road in the
    #image. As, we are concern only with the curves of the road to predict angles so
therefore, we are discarding the upper
    #part of the image. Hence, here -"150" is equivalent to the last 150 matrix pixels of the
image.
    read_image_resize = cv2.resize(read_image_road, (200, 66)) #After, resizing, each image wil
l be of size (66, 200, 3).
    #now since we have kept only the last 150 matrices in the image so the size of our image i
s now (150, 455, 3).
    #Now 455/150 = 3.0303. Also 200/66 = 3.0303. Hence, here we are keeping the aspect ratio o
f images same.
    read_image_final = read_image_resize/255.0 #here, we are normalizing the images

    x_result.append(read_image_final) #finally appending the image pixel matrix

    y_result.append(test_y[(test_batch_pointer + i) % len(test_y)]) #appending corresponding la
bels

    test_batch_pointer += batch_size

    return x_result, y_result

```

INITIALIZING THE MODEL

In [0]:

```

import tensorflow as tf
import scipy

def weight_variable(shape):
    initial = tf.truncated_normal(shape, stddev=0.1)
    return tf.Variable(initial)

def bias_variable(shape):
    initial = tf.constant(0.1, shape=shape)
    return tf.Variable(initial)

def conv2d(x, W, stride):
    return tf.nn.conv2d(x, W, strides=[1, stride, stride, 1], padding='VALID')

x = tf.placeholder(tf.float32, shape=[None, 66, 200, 3])
y_ = tf.placeholder(tf.float32, shape=[None, 1])

x_image = x

#first convolutional layer
W_conv1 = weight_variable([5, 5, 3, 24])
b_conv1 = bias_variable([24])

h_conv1 = tf.nn.relu(conv2d(x_image, W_conv1, 2) + b_conv1)

#second convolutional layer
W_conv2 = weight_variable([5, 5, 24, 36])
b_conv2 = bias_variable([36])

h_conv2 = tf.nn.relu(conv2d(h_conv1, W_conv2, 2) + b_conv2)

#third convolutional layer
W_conv3 = weight_variable([5, 5, 36, 48])
b_conv3 = bias_variable([48])

h_conv3 = tf.nn.relu(conv2d(h_conv2, W_conv3, 2) + b_conv3)

#fourth convolutional layer
W_conv4 = weight_variable([3, 3, 48, 64])
b_conv4 = bias_variable([64])

h_conv4 = tf.nn.relu(conv2d(h_conv3, W_conv4, 1) + b_conv4)

#fifth convolutional layer
W_conv5 = weight_variable([3, 3, 64, 64])
b_conv5 = bias_variable([64])

```

```

h_conv5 = tf.nn.relu(conv2d(h_conv4, W_conv5, 1) + b_conv5)

#FCL 1
W_fc1 = weight_variable([1152, 1164])
b_fc1 = bias_variable([1164])

h_conv5_flat = tf.reshape(h_conv5, [-1, 1152])
h_fc1 = tf.nn.relu(tf.matmul(h_conv5_flat, W_fc1) + b_fc1)

keep_prob = tf.placeholder(tf.float32)
h_fc1_drop = tf.nn.dropout(h_fc1, keep_prob)

#FCL 2
W_fc2 = weight_variable([1164, 100])
b_fc2 = bias_variable([100])

h_fc2 = tf.nn.relu(tf.matmul(h_fc1_drop, W_fc2) + b_fc2)
h_fc2_drop = tf.nn.dropout(h_fc2, keep_prob)

#FCL 3
W_fc3 = weight_variable([100, 50])
b_fc3 = bias_variable([50])

h_fc3 = tf.nn.relu(tf.matmul(h_fc2_drop, W_fc3) + b_fc3)
h_fc3_drop = tf.nn.dropout(h_fc3, keep_prob)

#FCL 3
W_fc4 = weight_variable([50, 10])
b_fc4 = bias_variable([10])

h_fc4 = tf.nn.relu(tf.matmul(h_fc3_drop, W_fc4) + b_fc4)
h_fc4_drop = tf.nn.dropout(h_fc4, keep_prob)

#Output
W_fc5 = weight_variable([10, 1])
b_fc5 = bias_variable([1])

y = tf.identity(tf.matmul(h_fc4_drop, W_fc5) + b_fc5) #simple linear layer

```

C:\Users\aman\Anaconda3\lib\site-packages\h5py__init__.py:36: FutureWarning: Conversion of the second argument of issubdtype from `float` to `np.floating` is deprecated. In future, it will be treated as `np.float64 == np.dtype(float).type`.

```

from ._conv import register_converters as _register_converters

```

WARNING:tensorflow:From <ipython-input-8-9f67bb777169>:58: calling dropout (from tensorflow.python.ops.nn_ops) with keep_prob is deprecated and will be removed in a future version.

Instructions for updating:

Please use `rate` instead of `keep_prob`. Rate should be set to `rate = 1 - keep_prob`.

TRAINING THE MODEL(ADAM OPTIMIZER 1e-3 , dropout 0.5 , linear layer)

In [0]:

```

import os
import tensorflow as tf
from tensorflow.core.protobuf import saver_pb2
import driving_data
import model

LOGDIR = './save'

sess = tf.InteractiveSession()

L2NormConst = 0.001

train_vars = tf.trainable_variables()

loss = tf.reduce_mean(tf.square(tf.subtract(model.y_, model.y))) + tf.add_n([tf.nn.l2_loss(v) for v
in train_vars]) * L2NormConst

```

```

train_step = tf.train.AdamOptimizer(1e-3).minimize(loss)
sess.run(tf.initialize_all_variables())

# create a summary to monitor cost tensor
tf.summary.scalar("loss", loss)
# merge all summaries into a single op
merged_summary_op = tf.summary.merge_all()

saver = tf.train.Saver(write_version = saver_pb2.SaverDef.V1)

# op to write logs to Tensorboard
logs_path = './logs'
summary_writer = tf.summary.FileWriter(logs_path, graph=tf.get_default_graph())

epochs = 30
batch_size = 100

# train over the dataset about 30 times
for epoch in range(epochs):
    for i in range(int(driving_data.num_images/batch_size)):
        xs, ys = driving_data.LoadTrainBatch(batch_size)
        train_step.run(feed_dict={model.x: xs, model.y_: ys, model.keep_prob: 0.5})
        if i % 10 == 0:
            xs, ys = driving_data.LoadValBatch(batch_size)
            loss_value = loss.eval(feed_dict={model.x:xs, model.y_: ys, model.keep_prob: 0.5})
            print("Epoch: %d, Step: %d, Loss: %g" % (epoch, epoch * batch_size + i, loss_value))

        # write logs at every iteration
        summary = merged_summary_op.eval(feed_dict={model.x:xs, model.y_: ys, model.keep_prob: 0.5})
        summary_writer.add_summary(summary, epoch * driving_data.num_images/batch_size + i)

    if i % batch_size == 0:
        if not os.path.exists(LOGDIR):
            os.makedirs(LOGDIR)
            checkpoint_path = os.path.join(LOGDIR, "model.ckpt")
            filename = saver.save(sess, checkpoint_path)
            print("Model saved in file: %s" % filename)

print("Run the command line:\n" \
      "--> tensorboard --logdir=./logs " \
      "\nThen open http://0.0.0.0:6006/ into your web browser")

```

WARNING:tensorflow:From C:\Users\aman\Anaconda3\lib\site-packages\tensorflow_core\python\util\tf_should_use.py:198: initialize_all_variables (from tensorflow.python.ops.variables) is deprecated and will be removed after 2017-03-02.

Instructions for updating:

Use `tf.global_variables_initializer` instead.

Epoch: 0, Step: 0, Loss: 12.7254

WARNING:tensorflow:*****

WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.

WARNING:tensorflow:Consider switching to the more efficient V2 format:

WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`

WARNING:tensorflow:now on by default.

WARNING:tensorflow:*****

Epoch: 0, Step: 10, Loss: 11.0953

Epoch: 0, Step: 20, Loss: 9.55691

Epoch: 0, Step: 30, Loss: 8.39027

Epoch: 0, Step: 40, Loss: 7.42946

Epoch: 0, Step: 50, Loss: 6.70423

Epoch: 0, Step: 60, Loss: 6.16853

Epoch: 0, Step: 70, Loss: 6.48138

Epoch: 0, Step: 80, Loss: 6.66791

Epoch: 0, Step: 90, Loss: 4.70758

Epoch: 0, Step: 100, Loss: 4.10917

WARNING:tensorflow:*****

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WARNING:tensorflow:now on by default.

WARNING:tensorflow:*****

Epoch: 0, Step: 110, Loss: 3.74061

Epoch: 0, Step: 120, Loss: 3.48099

Epoch: 0, Step: 130, Loss: 3.20233

Epoch: 0, Step: 140, Loss: 2.99656

Epoch: 0, Step: 150, Loss: 2.83198

Epoch: 0, Step: 160, Loss: 2.64417

Epoch: 0, Step: 170, Loss: 2.44355

```
Epoch: 0, Step: 170, Loss: 2.47000
Epoch: 0, Step: 180, Loss: 2.37703
Epoch: 0, Step: 190, Loss: 2.5288
Epoch: 0, Step: 200, Loss: 2.1059
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
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WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 0, Step: 210, Loss: 2.09369
Epoch: 0, Step: 220, Loss: 1.8435
Epoch: 0, Step: 230, Loss: 1.75452
Epoch: 0, Step: 240, Loss: 1.67338
Epoch: 0, Step: 250, Loss: 1.59728
Epoch: 0, Step: 260, Loss: 1.56109
Epoch: 0, Step: 270, Loss: 6.04109
Epoch: 0, Step: 280, Loss: 2.19767
Epoch: 0, Step: 290, Loss: 1.34399
Epoch: 0, Step: 300, Loss: 1.28556
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 0, Step: 310, Loss: 1.23451
Epoch: 0, Step: 320, Loss: 1.19367
Epoch: 0, Step: 330, Loss: 1.14219
Epoch: 0, Step: 340, Loss: 1.0957
Epoch: 0, Step: 350, Loss: 1.05344
Epoch: 0, Step: 360, Loss: 1.01551
Epoch: 0, Step: 370, Loss: 0.979509
Epoch: 0, Step: 380, Loss: 0.954721
Epoch: 0, Step: 390, Loss: 0.91462
Epoch: 0, Step: 400, Loss: 0.903064
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 0, Step: 410, Loss: 0.858569
Epoch: 0, Step: 420, Loss: 0.82984
Epoch: 0, Step: 430, Loss: 0.794142
Epoch: 0, Step: 440, Loss: 0.773588
Epoch: 0, Step: 450, Loss: 0.742978
Model saved in file: ./save\model.ckpt
Epoch: 1, Step: 100, Loss: 0.7314
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 110, Loss: 0.713236
Epoch: 1, Step: 120, Loss: 0.68165
Epoch: 1, Step: 130, Loss: 0.659723
Epoch: 1, Step: 140, Loss: 0.641617
Epoch: 1, Step: 150, Loss: 0.619744
Epoch: 1, Step: 160, Loss: 0.598845
Epoch: 1, Step: 170, Loss: 0.578503
Epoch: 1, Step: 180, Loss: 0.56049
Epoch: 1, Step: 190, Loss: 0.54313
Epoch: 1, Step: 200, Loss: 0.52912
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 210, Loss: 0.568884
Epoch: 1, Step: 220, Loss: 0.820247
Epoch: 1, Step: 230, Loss: 5.6478
Epoch: 1, Step: 240, Loss: 0.477152
Epoch: 1, Step: 250, Loss: 0.452967
Epoch: 1, Step: 260, Loss: 0.475758
Epoch: 1, Step: 270, Loss: 0.506618
```

```
Epoch: 1, Step: 270, Loss: 0.500010
Epoch: 1, Step: 280, Loss: 0.5023
Epoch: 1, Step: 290, Loss: 0.407892
Epoch: 1, Step: 300, Loss: 0.505956
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 310, Loss: 0.41859
Epoch: 1, Step: 320, Loss: 0.37296
Epoch: 1, Step: 330, Loss: 0.403846
Epoch: 1, Step: 340, Loss: 0.366225
Epoch: 1, Step: 350, Loss: 0.351791
Epoch: 1, Step: 360, Loss: 0.383405
Epoch: 1, Step: 370, Loss: 0.46374
Epoch: 1, Step: 380, Loss: 0.36534
Epoch: 1, Step: 390, Loss: 0.454224
Epoch: 1, Step: 400, Loss: 0.358984
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 410, Loss: 0.316631
Epoch: 1, Step: 420, Loss: 0.294779
Epoch: 1, Step: 430, Loss: 0.283815
Epoch: 1, Step: 440, Loss: 0.27855
Epoch: 1, Step: 450, Loss: 0.270932
Epoch: 1, Step: 460, Loss: 0.264842
Epoch: 1, Step: 470, Loss: 0.258877
Epoch: 1, Step: 480, Loss: 0.260062
Epoch: 1, Step: 490, Loss: 0.257505
Epoch: 1, Step: 500, Loss: 0.26146
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 510, Loss: 0.234888
Epoch: 1, Step: 520, Loss: 0.242474
Epoch: 1, Step: 530, Loss: 0.302631
Epoch: 1, Step: 540, Loss: 0.233623
Epoch: 1, Step: 550, Loss: 0.607371
Model saved in file: ./save\model.ckpt
Epoch: 2, Step: 200, Loss: 0.830669
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 210, Loss: 0.433438
Epoch: 2, Step: 220, Loss: 0.257655
Epoch: 2, Step: 230, Loss: 0.23619
Epoch: 2, Step: 240, Loss: 0.20612
Epoch: 2, Step: 250, Loss: 0.31036
Epoch: 2, Step: 260, Loss: 1.22178
Epoch: 2, Step: 270, Loss: 1.48503
Epoch: 2, Step: 280, Loss: 0.244075
Epoch: 2, Step: 290, Loss: 0.305232
Epoch: 2, Step: 300, Loss: 0.172576
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 310, Loss: 0.169779
Epoch: 2, Step: 320, Loss: 0.17282
Epoch: 2, Step: 330, Loss: 0.172782
Epoch: 2, Step: 340, Loss: 0.195633
Epoch: 2, Step: 350, Loss: 0.178105
Epoch: 2, Step: 360, Loss: 0.155775
Epoch: 2, Step: 370, Loss: 0.278588
```

```
Epoch: 2, Step: 370, Loss: 0.279990
Epoch: 2, Step: 380, Loss: 0.575407
Epoch: 2, Step: 390, Loss: 0.293925
Epoch: 2, Step: 400, Loss: 0.235011
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 410, Loss: 0.144074
Epoch: 2, Step: 420, Loss: 0.141874
Epoch: 2, Step: 430, Loss: 0.137823
Epoch: 2, Step: 440, Loss: 0.133989
Epoch: 2, Step: 450, Loss: 0.194252
Epoch: 2, Step: 460, Loss: 5.53536
Epoch: 2, Step: 470, Loss: 0.321155
Epoch: 2, Step: 480, Loss: 0.128555
Epoch: 2, Step: 490, Loss: 0.120728
Epoch: 2, Step: 500, Loss: 0.122863
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 510, Loss: 0.123172
Epoch: 2, Step: 520, Loss: 0.11665
Epoch: 2, Step: 530, Loss: 0.115264
Epoch: 2, Step: 540, Loss: 0.111639
Epoch: 2, Step: 550, Loss: 0.109153
Epoch: 2, Step: 560, Loss: 0.108023
Epoch: 2, Step: 570, Loss: 0.107224
Epoch: 2, Step: 580, Loss: 0.127062
Epoch: 2, Step: 590, Loss: 0.146045
Epoch: 2, Step: 600, Loss: 0.121956
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 610, Loss: 0.0985345
Epoch: 2, Step: 620, Loss: 0.0967633
Epoch: 2, Step: 630, Loss: 0.0951393
Epoch: 2, Step: 640, Loss: 0.0942872
Epoch: 2, Step: 650, Loss: 0.0922296
Model saved in file: ./save\model.ckpt
Epoch: 3, Step: 300, Loss: 0.0920911
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 310, Loss: 0.0906465
Epoch: 3, Step: 320, Loss: 0.0893207
Epoch: 3, Step: 330, Loss: 0.0875267
Epoch: 3, Step: 340, Loss: 0.0867388
Epoch: 3, Step: 350, Loss: 0.0855667
Epoch: 3, Step: 360, Loss: 0.0833937
Epoch: 3, Step: 370, Loss: 0.0823593
Epoch: 3, Step: 380, Loss: 0.0812379
Epoch: 3, Step: 390, Loss: 0.0826021
Epoch: 3, Step: 400, Loss: 0.139808
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 410, Loss: 1.61533
Epoch: 3, Step: 420, Loss: 4.08753
Epoch: 3, Step: 430, Loss: 0.0851582
Epoch: 3, Step: 440, Loss: 0.0778124
Epoch: 3, Step: 450, Loss: 0.109757
Epoch: 3, Step: 460, Loss: 0.120747
Epoch: 3, Step: 470, Loss: 0.110004
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Epoch: 3, Step: 470, Loss: 0.119024
Epoch: 3, Step: 480, Loss: 0.103264
Epoch: 3, Step: 490, Loss: 0.227725
Epoch: 3, Step: 500, Loss: 0.0852531
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 510, Loss: 0.0812396
Epoch: 3, Step: 520, Loss: 0.110946
Epoch: 3, Step: 530, Loss: 0.076202
Epoch: 3, Step: 540, Loss: 0.080743
Epoch: 3, Step: 550, Loss: 0.131417
Epoch: 3, Step: 560, Loss: 0.180743
Epoch: 3, Step: 570, Loss: 0.13186
Epoch: 3, Step: 580, Loss: 0.185742
Epoch: 3, Step: 590, Loss: 0.0851441
Epoch: 3, Step: 600, Loss: 0.0975439
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 610, Loss: 0.0812235
Epoch: 3, Step: 620, Loss: 0.077022
Epoch: 3, Step: 630, Loss: 0.0773943
Epoch: 3, Step: 640, Loss: 0.076091
Epoch: 3, Step: 650, Loss: 0.0793904
Epoch: 3, Step: 660, Loss: 0.079123
Epoch: 3, Step: 670, Loss: 0.0950322
Epoch: 3, Step: 680, Loss: 0.0837411
Epoch: 3, Step: 690, Loss: 0.0902491
Epoch: 3, Step: 700, Loss: 0.0561322
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 710, Loss: 0.0932292
Epoch: 3, Step: 720, Loss: 0.158607
Epoch: 3, Step: 730, Loss: 0.0645977
Epoch: 3, Step: 740, Loss: 0.586066
Epoch: 3, Step: 750, Loss: 0.651182
Model saved in file: ./save\model.ckpt
Epoch: 4, Step: 400, Loss: 0.246827
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 410, Loss: 0.0912875
Epoch: 4, Step: 420, Loss: 0.0737578
Epoch: 4, Step: 430, Loss: 0.077966
Epoch: 4, Step: 440, Loss: 0.264931
Epoch: 4, Step: 450, Loss: 1.42371
Epoch: 4, Step: 460, Loss: 1.14192
Epoch: 4, Step: 470, Loss: 0.0930292
Epoch: 4, Step: 480, Loss: 0.109776
Epoch: 4, Step: 490, Loss: 0.048366
Epoch: 4, Step: 500, Loss: 0.0525935
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 510, Loss: 0.0516064
Epoch: 4, Step: 520, Loss: 0.0723463
Epoch: 4, Step: 530, Loss: 0.112003
Epoch: 4, Step: 540, Loss: 0.050272
Epoch: 4, Step: 550, Loss: 0.0608426
Epoch: 4, Step: 560, Loss: 0.165254
Epoch: 4, Step: 570, Loss: 0.443214
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Epoch: 4, Step: 570, Loss: 0.44314
Epoch: 4, Step: 580, Loss: 0.270553
Epoch: 4, Step: 590, Loss: 0.0554702
Epoch: 4, Step: 600, Loss: 0.0501419
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 610, Loss: 0.0505556
Epoch: 4, Step: 620, Loss: 0.0500503
Epoch: 4, Step: 630, Loss: 0.049417
Epoch: 4, Step: 640, Loss: 0.517731
Epoch: 4, Step: 650, Loss: 4.94275
Epoch: 4, Step: 660, Loss: 0.0788622
Epoch: 4, Step: 670, Loss: 0.0480271
Epoch: 4, Step: 680, Loss: 0.0441904
Epoch: 4, Step: 690, Loss: 0.050626
Epoch: 4, Step: 700, Loss: 0.0443759
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 710, Loss: 0.0420995
Epoch: 4, Step: 720, Loss: 0.0343647
Epoch: 4, Step: 730, Loss: 0.0346728
Epoch: 4, Step: 740, Loss: 0.0339743
Epoch: 4, Step: 750, Loss: 0.0331451
Epoch: 4, Step: 760, Loss: 0.0352148
Epoch: 4, Step: 770, Loss: 0.0694554
Epoch: 4, Step: 780, Loss: 0.069211
Epoch: 4, Step: 790, Loss: 0.0450835
Epoch: 4, Step: 800, Loss: 0.0320818
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 810, Loss: 0.0315499
Epoch: 4, Step: 820, Loss: 0.032976
Epoch: 4, Step: 830, Loss: 0.0318341
Epoch: 4, Step: 840, Loss: 0.0316801
Epoch: 4, Step: 850, Loss: 0.0325263
Model saved in file: ./save\model.ckpt
Epoch: 5, Step: 500, Loss: 0.0306923
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 510, Loss: 0.03245
Epoch: 5, Step: 520, Loss: 0.0308593
Epoch: 5, Step: 530, Loss: 0.0300563
Epoch: 5, Step: 540, Loss: 0.0294789
Epoch: 5, Step: 550, Loss: 0.0295241
Epoch: 5, Step: 560, Loss: 0.0276745
Epoch: 5, Step: 570, Loss: 0.0278984
Epoch: 5, Step: 580, Loss: 0.035043
Epoch: 5, Step: 590, Loss: 0.0845118
Epoch: 5, Step: 600, Loss: 2.69227
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 610, Loss: 2.80867
Epoch: 5, Step: 620, Loss: 0.0276441
Epoch: 5, Step: 630, Loss: 0.0258083
Epoch: 5, Step: 640, Loss: 0.0860818
Epoch: 5, Step: 650, Loss: 0.0943842
Epoch: 5, Step: 660, Loss: 0.0777441
Epoch: 5, Step: 670, Loss: 0.0300555
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Epoch: 5, Step: 670, Loss: 0.0693515
Epoch: 5, Step: 680, Loss: 0.122719
Epoch: 5, Step: 690, Loss: 0.0275844
Epoch: 5, Step: 700, Loss: 0.0474248
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 710, Loss: 0.0446908
Epoch: 5, Step: 720, Loss: 0.0395768
Epoch: 5, Step: 730, Loss: 0.0301907
Epoch: 5, Step: 740, Loss: 0.127597
Epoch: 5, Step: 750, Loss: 0.124042
Epoch: 5, Step: 760, Loss: 0.102966
Epoch: 5, Step: 770, Loss: 0.136111
Epoch: 5, Step: 780, Loss: 0.0397592
Epoch: 5, Step: 790, Loss: 0.0481925
Epoch: 5, Step: 800, Loss: 0.0376961
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 810, Loss: 0.0347774
Epoch: 5, Step: 820, Loss: 0.0327232
Epoch: 5, Step: 830, Loss: 0.0312568
Epoch: 5, Step: 840, Loss: 0.0318887
Epoch: 5, Step: 850, Loss: 0.0299253
Epoch: 5, Step: 860, Loss: 0.0410557
Epoch: 5, Step: 870, Loss: 0.0361999
Epoch: 5, Step: 880, Loss: 0.0363168
Epoch: 5, Step: 890, Loss: 0.0242112
Epoch: 5, Step: 900, Loss: 0.0531284
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 910, Loss: 0.0915548
Epoch: 5, Step: 920, Loss: 0.0583535
Epoch: 5, Step: 930, Loss: 0.584669
Epoch: 5, Step: 940, Loss: 0.530966
Epoch: 5, Step: 950, Loss: 0.162699
Model saved in file: ./save\model.ckpt
Epoch: 6, Step: 600, Loss: 0.0590454
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 610, Loss: 0.0385472
Epoch: 6, Step: 620, Loss: 0.0632323
Epoch: 6, Step: 630, Loss: 0.370545
Epoch: 6, Step: 640, Loss: 1.44616
Epoch: 6, Step: 650, Loss: 0.739414
Epoch: 6, Step: 660, Loss: 0.107548
Epoch: 6, Step: 670, Loss: 0.054475
Epoch: 6, Step: 680, Loss: 0.0208142
Epoch: 6, Step: 690, Loss: 0.0162252
Epoch: 6, Step: 700, Loss: 0.0259196
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 710, Loss: 0.0403066
Epoch: 6, Step: 720, Loss: 0.0662226
Epoch: 6, Step: 730, Loss: 0.0161122
Epoch: 6, Step: 740, Loss: 0.0769712
Epoch: 6, Step: 750, Loss: 0.138644
Epoch: 6, Step: 760, Loss: 0.417076
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Epoch: 6, Step: 770, Loss: 0.245149
Epoch: 6, Step: 780, Loss: 0.035023
Epoch: 6, Step: 790, Loss: 0.0293938
Epoch: 6, Step: 800, Loss: 0.0245533
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 810, Loss: 0.0230651
Epoch: 6, Step: 820, Loss: 0.025884
Epoch: 6, Step: 830, Loss: 1.55599
Epoch: 6, Step: 840, Loss: 4.04121
Epoch: 6, Step: 850, Loss: 0.0268948
Epoch: 6, Step: 860, Loss: 0.0163662
Epoch: 6, Step: 870, Loss: 0.0157052
Epoch: 6, Step: 880, Loss: 0.0192112
Epoch: 6, Step: 890, Loss: 0.0166847
Epoch: 6, Step: 900, Loss: 0.0174159
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 910, Loss: 0.0160158
Epoch: 6, Step: 920, Loss: 0.0159379
Epoch: 6, Step: 930, Loss: 0.0162895
Epoch: 6, Step: 940, Loss: 0.0127837
Epoch: 6, Step: 950, Loss: 0.017719
Epoch: 6, Step: 960, Loss: 0.0521968
Epoch: 6, Step: 970, Loss: 0.0511297
Epoch: 6, Step: 980, Loss: 0.0200114
Epoch: 6, Step: 990, Loss: 0.0116096
Epoch: 6, Step: 1000, Loss: 0.012041
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 1010, Loss: 0.0121754
Epoch: 6, Step: 1020, Loss: 0.0112301
Epoch: 6, Step: 1030, Loss: 0.0118721
Epoch: 6, Step: 1040, Loss: 0.0113854
Epoch: 6, Step: 1050, Loss: 0.0104673
Model saved in file: ./save\model.ckpt
Epoch: 7, Step: 700, Loss: 0.0113899
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 710, Loss: 0.0109959
Epoch: 7, Step: 720, Loss: 0.0108263
Epoch: 7, Step: 730, Loss: 0.0107064
Epoch: 7, Step: 740, Loss: 0.0101916
Epoch: 7, Step: 750, Loss: 0.0101246
Epoch: 7, Step: 760, Loss: 0.00998204
Epoch: 7, Step: 770, Loss: 0.035355
Epoch: 7, Step: 780, Loss: 0.0495088
Epoch: 7, Step: 790, Loss: 3.69462
Epoch: 7, Step: 800, Loss: 1.7061
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 810, Loss: 0.0115596
Epoch: 7, Step: 820, Loss: 0.0171446
Epoch: 7, Step: 830, Loss: 0.0688017
Epoch: 7, Step: 840, Loss: 0.0798806
Epoch: 7, Step: 850, Loss: 0.0298184
Epoch: 7, Step: 860, Loss: 0.0904555
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Epoch: 7, Step: 870, Loss: 0.117874
Epoch: 7, Step: 880, Loss: 0.0109833
Epoch: 7, Step: 890, Loss: 0.0563894
Epoch: 7, Step: 900, Loss: 0.0258623
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 910, Loss: 0.0246357
Epoch: 7, Step: 920, Loss: 0.014522
Epoch: 7, Step: 930, Loss: 0.125674
Epoch: 7, Step: 940, Loss: 0.0650524
Epoch: 7, Step: 950, Loss: 0.127874
Epoch: 7, Step: 960, Loss: 0.107921
Epoch: 7, Step: 970, Loss: 0.0354338
Epoch: 7, Step: 980, Loss: 0.0292255
Epoch: 7, Step: 990, Loss: 0.0284774
Epoch: 7, Step: 1000, Loss: 0.026762
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 1010, Loss: 0.0268149
Epoch: 7, Step: 1020, Loss: 0.0265736
Epoch: 7, Step: 1030, Loss: 0.0269683
Epoch: 7, Step: 1040, Loss: 0.0258526
Epoch: 7, Step: 1050, Loss: 0.043356
Epoch: 7, Step: 1060, Loss: 0.0414616
Epoch: 7, Step: 1070, Loss: 0.0335432
Epoch: 7, Step: 1080, Loss: 0.0184901
Epoch: 7, Step: 1090, Loss: 0.0726364
Epoch: 7, Step: 1100, Loss: 0.0753457
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 1110, Loss: 0.17393
Epoch: 7, Step: 1120, Loss: 0.636163
Epoch: 7, Step: 1130, Loss: 0.436645
Epoch: 7, Step: 1140, Loss: 0.139104
Epoch: 7, Step: 1150, Loss: 0.0577693
Model saved in file: ./save\model.ckpt
Epoch: 8, Step: 800, Loss: 0.0216906
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 810, Loss: 0.0733171
Epoch: 8, Step: 820, Loss: 0.577392
Epoch: 8, Step: 830, Loss: 1.4812
Epoch: 8, Step: 840, Loss: 0.49866
Epoch: 8, Step: 850, Loss: 0.10991
Epoch: 8, Step: 860, Loss: 0.0149706
Epoch: 8, Step: 870, Loss: 0.0141455
Epoch: 8, Step: 880, Loss: 0.0105642
Epoch: 8, Step: 890, Loss: 0.015825
Epoch: 8, Step: 900, Loss: 0.0528649
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 910, Loss: 0.0666996
Epoch: 8, Step: 920, Loss: 0.0108981
Epoch: 8, Step: 930, Loss: 0.0909685
Epoch: 8, Step: 940, Loss: 0.260051
Epoch: 8, Step: 950, Loss: 0.226219
Epoch: 8, Step: 960, Loss: 0.20614
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Epoch: 8, Step: 970, Loss: 0.0172952
Epoch: 8, Step: 980, Loss: 0.0176798
Epoch: 8, Step: 990, Loss: 0.0172459
Epoch: 8, Step: 1000, Loss: 0.0170644
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 1010, Loss: 0.0254847
Epoch: 8, Step: 1020, Loss: 2.88732
Epoch: 8, Step: 1030, Loss: 2.54776
Epoch: 8, Step: 1040, Loss: 0.0199136
Epoch: 8, Step: 1050, Loss: 0.0106324
Epoch: 8, Step: 1060, Loss: 0.012428
Epoch: 8, Step: 1070, Loss: 0.0239169
Epoch: 8, Step: 1080, Loss: 0.0102458
Epoch: 8, Step: 1090, Loss: 0.0102292
Epoch: 8, Step: 1100, Loss: 0.00561091
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 1110, Loss: 0.00572445
Epoch: 8, Step: 1120, Loss: 0.00646949
Epoch: 8, Step: 1130, Loss: 0.00462296
Epoch: 8, Step: 1140, Loss: 0.0158223
Epoch: 8, Step: 1150, Loss: 0.0552101
Epoch: 8, Step: 1160, Loss: 0.0475243
Epoch: 8, Step: 1170, Loss: 0.00489425
Epoch: 8, Step: 1180, Loss: 0.00475777
Epoch: 8, Step: 1190, Loss: 0.00551878
Epoch: 8, Step: 1200, Loss: 0.00548217
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 1210, Loss: 0.0051689
Epoch: 8, Step: 1220, Loss: 0.0081478
Epoch: 8, Step: 1230, Loss: 0.00417061
Epoch: 8, Step: 1240, Loss: 0.00541132
Epoch: 8, Step: 1250, Loss: 0.00875202
Model saved in file: ./save\model.ckpt
Epoch: 9, Step: 900, Loss: 0.0061328
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 910, Loss: 0.00762575
Epoch: 9, Step: 920, Loss: 0.0056117
Epoch: 9, Step: 930, Loss: 0.00526566
Epoch: 9, Step: 940, Loss: 0.00555416
Epoch: 9, Step: 950, Loss: 0.0063732
Epoch: 9, Step: 960, Loss: 0.0408121
Epoch: 9, Step: 970, Loss: 0.0362323
Epoch: 9, Step: 980, Loss: 5.00289
Epoch: 9, Step: 990, Loss: 0.46019
Epoch: 9, Step: 1000, Loss: 0.00491975
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 1010, Loss: 0.0252255
Epoch: 9, Step: 1020, Loss: 0.0740651
Epoch: 9, Step: 1030, Loss: 0.084342
Epoch: 9, Step: 1040, Loss: 0.0143732
Epoch: 9, Step: 1050, Loss: 0.093351
Epoch: 9, Step: 1060, Loss: 0.0740365
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Epoch: 9, Step: 1070, Loss: 0.00537078
Epoch: 9, Step: 1080, Loss: 0.0457515
Epoch: 9, Step: 1090, Loss: 0.0188747
Epoch: 9, Step: 1100, Loss: 0.0157117
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 1110, Loss: 0.0127808
Epoch: 9, Step: 1120, Loss: 0.171541
Epoch: 9, Step: 1130, Loss: 0.0416124
Epoch: 9, Step: 1140, Loss: 0.122645
Epoch: 9, Step: 1150, Loss: 0.0687374
Epoch: 9, Step: 1160, Loss: 0.04116
Epoch: 9, Step: 1170, Loss: 0.0265096
Epoch: 9, Step: 1180, Loss: 0.0265351
Epoch: 9, Step: 1190, Loss: 0.0209123
Epoch: 9, Step: 1200, Loss: 0.0193494
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 1210, Loss: 0.0188021
Epoch: 9, Step: 1220, Loss: 0.0170236
Epoch: 9, Step: 1230, Loss: 0.0154436
Epoch: 9, Step: 1240, Loss: 0.0289386
Epoch: 9, Step: 1250, Loss: 0.0266955
Epoch: 9, Step: 1260, Loss: 0.0131383
Epoch: 9, Step: 1270, Loss: 0.0154724
Epoch: 9, Step: 1280, Loss: 0.0687795
Epoch: 9, Step: 1290, Loss: 0.0344183
Epoch: 9, Step: 1300, Loss: 0.269036
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 1310, Loss: 0.600097
Epoch: 9, Step: 1320, Loss: 0.285264
Epoch: 9, Step: 1330, Loss: 0.0980376
Epoch: 9, Step: 1340, Loss: 0.0524947
Epoch: 9, Step: 1350, Loss: 0.0115991
Model saved in file: ./save\model.ckpt
Epoch: 10, Step: 1000, Loss: 0.0999781
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1010, Loss: 0.777569
Epoch: 10, Step: 1020, Loss: 1.44413
Epoch: 10, Step: 1030, Loss: 0.2416
Epoch: 10, Step: 1040, Loss: 0.128516
Epoch: 10, Step: 1050, Loss: 0.00392292
Epoch: 10, Step: 1060, Loss: 0.00765583
Epoch: 10, Step: 1070, Loss: 0.00461552
Epoch: 10, Step: 1080, Loss: 0.0157026
Epoch: 10, Step: 1090, Loss: 0.0344626
Epoch: 10, Step: 1100, Loss: 0.0414996
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1110, Loss: 0.00664017
Epoch: 10, Step: 1120, Loss: 0.130202
Epoch: 10, Step: 1130, Loss: 0.397355
Epoch: 10, Step: 1140, Loss: 0.110714
Epoch: 10, Step: 1150, Loss: 0.191537
Epoch: 10, Step: 1160, Loss: 0.0175361

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Epoch: 10, Step: 1170, Loss: 0.0176086
Epoch: 10, Step: 1180, Loss: 0.0171241
Epoch: 10, Step: 1190, Loss: 0.0167199
Epoch: 10, Step: 1200, Loss: 0.0233416
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1210, Loss: 4.36216
Epoch: 10, Step: 1220, Loss: 1.11624
Epoch: 10, Step: 1230, Loss: 0.0131348
Epoch: 10, Step: 1240, Loss: 0.00475379
Epoch: 10, Step: 1250, Loss: 0.00635296
Epoch: 10, Step: 1260, Loss: 0.0111835
Epoch: 10, Step: 1270, Loss: 0.00613069
Epoch: 10, Step: 1280, Loss: 0.00669991
Epoch: 10, Step: 1290, Loss: 0.00395399
Epoch: 10, Step: 1300, Loss: 0.00469521
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1310, Loss: 0.00554126
Epoch: 10, Step: 1320, Loss: 0.00603479
Epoch: 10, Step: 1330, Loss: 0.0135213
Epoch: 10, Step: 1340, Loss: 0.044777
Epoch: 10, Step: 1350, Loss: 0.0315336
Epoch: 10, Step: 1360, Loss: 0.00270212
Epoch: 10, Step: 1370, Loss: 0.00219881
Epoch: 10, Step: 1380, Loss: 0.00238491
Epoch: 10, Step: 1390, Loss: 0.00272916
Epoch: 10, Step: 1400, Loss: 0.00149751
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1410, Loss: 0.00320833
Epoch: 10, Step: 1420, Loss: 0.00158287
Epoch: 10, Step: 1430, Loss: 0.00176932
Epoch: 10, Step: 1440, Loss: 0.00245561
Epoch: 10, Step: 1450, Loss: 0.00229418
Model saved in file: ./save\model.ckpt
Epoch: 11, Step: 1100, Loss: 0.00189361
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1110, Loss: 0.00160503
Epoch: 11, Step: 1120, Loss: 0.00159291
Epoch: 11, Step: 1130, Loss: 0.00161725
Epoch: 11, Step: 1140, Loss: 0.0028914
Epoch: 11, Step: 1150, Loss: 0.0527437
Epoch: 11, Step: 1160, Loss: 0.133857
Epoch: 11, Step: 1170, Loss: 5.23718
Epoch: 11, Step: 1180, Loss: 0.0200835
Epoch: 11, Step: 1190, Loss: 0.00231478
Epoch: 11, Step: 1200, Loss: 0.0374878
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1210, Loss: 0.0723384
Epoch: 11, Step: 1220, Loss: 0.069844
Epoch: 11, Step: 1230, Loss: 0.0060468
Epoch: 11, Step: 1240, Loss: 0.128659
Epoch: 11, Step: 1250, Loss: 0.0546261
Epoch: 11, Step: 1260, Loss: 0.00228167
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Epoch: 11, Step: 1270, Loss: 0.0590393
Epoch: 11, Step: 1280, Loss: 0.0103223
Epoch: 11, Step: 1290, Loss: 0.0204405
Epoch: 11, Step: 1300, Loss: 0.0359145
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1310, Loss: 0.132694
Epoch: 11, Step: 1320, Loss: 0.0499356
Epoch: 11, Step: 1330, Loss: 0.139269
Epoch: 11, Step: 1340, Loss: 0.0578206
Epoch: 11, Step: 1350, Loss: 0.0341631
Epoch: 11, Step: 1360, Loss: 0.0229056
Epoch: 11, Step: 1370, Loss: 0.0189475
Epoch: 11, Step: 1380, Loss: 0.019899
Epoch: 11, Step: 1390, Loss: 0.0196928
Epoch: 11, Step: 1400, Loss: 0.0203578
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1410, Loss: 0.0199715
Epoch: 11, Step: 1420, Loss: 0.0262059
Epoch: 11, Step: 1430, Loss: 0.028613
Epoch: 11, Step: 1440, Loss: 0.0387811
Epoch: 11, Step: 1450, Loss: 0.00875414
Epoch: 11, Step: 1460, Loss: 0.0272424
Epoch: 11, Step: 1470, Loss: 0.0983133
Epoch: 11, Step: 1480, Loss: 0.0250504
Epoch: 11, Step: 1490, Loss: 0.382708
Epoch: 11, Step: 1500, Loss: 0.648777
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1510, Loss: 0.25575
Epoch: 11, Step: 1520, Loss: 0.0768203
Epoch: 11, Step: 1530, Loss: 0.050703
Epoch: 11, Step: 1540, Loss: 0.0113494
Epoch: 11, Step: 1550, Loss: 0.112522
Model saved in file: ./save\model.ckpt
Epoch: 12, Step: 1200, Loss: 0.95757
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1210, Loss: 1.33905
Epoch: 12, Step: 1220, Loss: 0.0921338
Epoch: 12, Step: 1230, Loss: 0.117445
Epoch: 12, Step: 1240, Loss: 0.0018337
Epoch: 12, Step: 1250, Loss: 0.00866746
Epoch: 12, Step: 1260, Loss: 0.0088764
Epoch: 12, Step: 1270, Loss: 0.0194479
Epoch: 12, Step: 1280, Loss: 0.0538555
Epoch: 12, Step: 1290, Loss: 0.0403381
Epoch: 12, Step: 1300, Loss: 0.00936292
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1310, Loss: 0.111502
Epoch: 12, Step: 1320, Loss: 0.411878
Epoch: 12, Step: 1330, Loss: 0.104664
Epoch: 12, Step: 1340, Loss: 0.128976
Epoch: 12, Step: 1350, Loss: 0.0103586
Epoch: 12, Step: 1360, Loss: 0.0116463
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Epoch: 12, Step: 1370, Loss: 0.0126839
Epoch: 12, Step: 1380, Loss: 0.0125349
Epoch: 12, Step: 1390, Loss: 0.0389932
Epoch: 12, Step: 1400, Loss: 5.16724
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1410, Loss: 0.244766
Epoch: 12, Step: 1420, Loss: 0.0133636
Epoch: 12, Step: 1430, Loss: 0.00593264
Epoch: 12, Step: 1440, Loss: 0.0111536
Epoch: 12, Step: 1450, Loss: 0.0134631
Epoch: 12, Step: 1460, Loss: 0.00901806
Epoch: 12, Step: 1470, Loss: 0.00185718
Epoch: 12, Step: 1480, Loss: 0.00196799
Epoch: 12, Step: 1490, Loss: 0.00168031
Epoch: 12, Step: 1500, Loss: 0.00228961
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1510, Loss: 0.00322288
Epoch: 12, Step: 1520, Loss: 0.0255686
Epoch: 12, Step: 1530, Loss: 0.0525076
Epoch: 12, Step: 1540, Loss: 0.0279823
Epoch: 12, Step: 1550, Loss: 0.00095992
Epoch: 12, Step: 1560, Loss: 0.00160583
Epoch: 12, Step: 1570, Loss: 0.000759782
Epoch: 12, Step: 1580, Loss: 0.00175851
Epoch: 12, Step: 1590, Loss: 0.00057915
Epoch: 12, Step: 1600, Loss: 0.00300116
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1610, Loss: 0.000918194
Epoch: 12, Step: 1620, Loss: 0.00242862
Epoch: 12, Step: 1630, Loss: 0.00335776
Epoch: 12, Step: 1640, Loss: 0.00316793
Epoch: 12, Step: 1650, Loss: 0.00265617
Model saved in file: ./save\model.ckpt
Epoch: 13, Step: 1300, Loss: 0.00318286
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1310, Loss: 0.00246496
Epoch: 13, Step: 1320, Loss: 0.00286114
Epoch: 13, Step: 1330, Loss: 0.00640165
Epoch: 13, Step: 1340, Loss: 0.0617363
Epoch: 13, Step: 1350, Loss: 1.15811
Epoch: 13, Step: 1360, Loss: 4.35186
Epoch: 13, Step: 1370, Loss: 0.00834084
Epoch: 13, Step: 1380, Loss: 0.00145378
Epoch: 13, Step: 1390, Loss: 0.0485258
Epoch: 13, Step: 1400, Loss: 0.0670282
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1410, Loss: 0.068728
Epoch: 13, Step: 1420, Loss: 0.0174557
Epoch: 13, Step: 1430, Loss: 0.126501
Epoch: 13, Step: 1440, Loss: 0.0205012
Epoch: 13, Step: 1450, Loss: 0.00849652
Epoch: 13, Step: 1460, Loss: 0.0415995
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Epoch: 13, Step: 1470, Loss: 0.0156403
Epoch: 13, Step: 1480, Loss: 0.0109334
Epoch: 13, Step: 1490, Loss: 0.0717269
Epoch: 13, Step: 1500, Loss: 0.13248
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1510, Loss: 0.0616815
Epoch: 13, Step: 1520, Loss: 0.115488
Epoch: 13, Step: 1530, Loss: 0.0296343
Epoch: 13, Step: 1540, Loss: 0.0428598
Epoch: 13, Step: 1550, Loss: 0.0269715
Epoch: 13, Step: 1560, Loss: 0.0225858
Epoch: 13, Step: 1570, Loss: 0.0225825
Epoch: 13, Step: 1580, Loss: 0.0227035
Epoch: 13, Step: 1590, Loss: 0.0189475
Epoch: 13, Step: 1600, Loss: 0.0170016
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1610, Loss: 0.0288509
Epoch: 13, Step: 1620, Loss: 0.0202397
Epoch: 13, Step: 1630, Loss: 0.0258506
Epoch: 13, Step: 1640, Loss: 0.00419526
Epoch: 13, Step: 1650, Loss: 0.0241634
Epoch: 13, Step: 1660, Loss: 0.0806588
Epoch: 13, Step: 1670, Loss: 0.0102239
Epoch: 13, Step: 1680, Loss: 0.44917
Epoch: 13, Step: 1690, Loss: 0.573361
Epoch: 13, Step: 1700, Loss: 0.184521
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1710, Loss: 0.0357751
Epoch: 13, Step: 1720, Loss: 0.0292602
Epoch: 13, Step: 1730, Loss: 0.0231069
Epoch: 13, Step: 1740, Loss: 0.174216
Epoch: 13, Step: 1750, Loss: 1.23844
Model saved in file: ./save\model.ckpt
Epoch: 14, Step: 1400, Loss: 1.11171
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1410, Loss: 0.0506547
Epoch: 14, Step: 1420, Loss: 0.093789
Epoch: 14, Step: 1430, Loss: 0.00251699
Epoch: 14, Step: 1440, Loss: 0.0046558
Epoch: 14, Step: 1450, Loss: 0.00939222
Epoch: 14, Step: 1460, Loss: 0.0209829
Epoch: 14, Step: 1470, Loss: 0.0545577
Epoch: 14, Step: 1480, Loss: 0.0111882
Epoch: 14, Step: 1490, Loss: 0.0146816
Epoch: 14, Step: 1500, Loss: 0.131102
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1510, Loss: 0.422239
Epoch: 14, Step: 1520, Loss: 0.237603
Epoch: 14, Step: 1530, Loss: 0.0231241
Epoch: 14, Step: 1540, Loss: 0.0159435
Epoch: 14, Step: 1550, Loss: 0.0158503
Epoch: 14, Step: 1560, Loss: 0.0162142
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Epoch: 14, Step: 1570, Loss: 0.014777
Epoch: 14, Step: 1580, Loss: 0.320616
Epoch: 14, Step: 1590, Loss: 5.00774
Epoch: 14, Step: 1600, Loss: 0.0643387
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1610, Loss: 0.0105926
Epoch: 14, Step: 1620, Loss: 0.00494584
Epoch: 14, Step: 1630, Loss: 0.00927945
Epoch: 14, Step: 1640, Loss: 0.00710983
Epoch: 14, Step: 1650, Loss: 0.00480314
Epoch: 14, Step: 1660, Loss: 0.00530306
Epoch: 14, Step: 1670, Loss: 0.00437573
Epoch: 14, Step: 1680, Loss: 0.00423275
Epoch: 14, Step: 1690, Loss: 0.00374783
Epoch: 14, Step: 1700, Loss: 0.00526971
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1710, Loss: 0.0267372
Epoch: 14, Step: 1720, Loss: 0.0352798
Epoch: 14, Step: 1730, Loss: 0.0165129
Epoch: 14, Step: 1740, Loss: 0.00145297
Epoch: 14, Step: 1750, Loss: 0.00116793
Epoch: 14, Step: 1760, Loss: 0.00126392
Epoch: 14, Step: 1770, Loss: 0.00106751
Epoch: 14, Step: 1780, Loss: 0.000647774
Epoch: 14, Step: 1790, Loss: 0.00155084
Epoch: 14, Step: 1800, Loss: 0.000491757
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1810, Loss: 0.00141269
Epoch: 14, Step: 1820, Loss: 0.00106217
Epoch: 14, Step: 1830, Loss: 0.00120933
Epoch: 14, Step: 1840, Loss: 0.000998349
Epoch: 14, Step: 1850, Loss: 0.000394776
Model saved in file: ./save\model.ckpt
Epoch: 15, Step: 1500, Loss: 0.000389194
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1510, Loss: 0.000548095
Epoch: 15, Step: 1520, Loss: 0.00473506
Epoch: 15, Step: 1530, Loss: 0.0614076
Epoch: 15, Step: 1540, Loss: 2.35145
Epoch: 15, Step: 1550, Loss: 3.03074
Epoch: 15, Step: 1560, Loss: 0.00319268
Epoch: 15, Step: 1570, Loss: 0.000742033
Epoch: 15, Step: 1580, Loss: 0.0652403
Epoch: 15, Step: 1590, Loss: 0.0732302
Epoch: 15, Step: 1600, Loss: 0.0623893
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1610, Loss: 0.0444386
Epoch: 15, Step: 1620, Loss: 0.12259
Epoch: 15, Step: 1630, Loss: 0.00483294
Epoch: 15, Step: 1640, Loss: 0.0277624
Epoch: 15, Step: 1650, Loss: 0.0289336
Epoch: 15, Step: 1660, Loss: 0.0143752
```

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Epoch: 14, Step: 1660, Loss: 0.0118100
Epoch: 15, Step: 1670, Loss: 0.0142039
Epoch: 15, Step: 1680, Loss: 0.0779857
Epoch: 15, Step: 1690, Loss: 0.0875481
Epoch: 15, Step: 1700, Loss: 0.0954937
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1710, Loss: 0.140486
Epoch: 15, Step: 1720, Loss: 0.0144209
Epoch: 15, Step: 1730, Loss: 0.0268732
Epoch: 15, Step: 1740, Loss: 0.0180625
Epoch: 15, Step: 1750, Loss: 0.0170561
Epoch: 15, Step: 1760, Loss: 0.0185532
Epoch: 15, Step: 1770, Loss: 0.0192699
Epoch: 15, Step: 1780, Loss: 0.01923
Epoch: 15, Step: 1790, Loss: 0.0187409
Epoch: 15, Step: 1800, Loss: 0.033715
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1810, Loss: 0.0272507
Epoch: 15, Step: 1820, Loss: 0.0280027
Epoch: 15, Step: 1830, Loss: 0.00476012
Epoch: 15, Step: 1840, Loss: 0.0417171
Epoch: 15, Step: 1850, Loss: 0.0933332
Epoch: 15, Step: 1860, Loss: 0.0322013
Epoch: 15, Step: 1870, Loss: 0.593771
Epoch: 15, Step: 1880, Loss: 0.552764
Epoch: 15, Step: 1890, Loss: 0.163335
Epoch: 15, Step: 1900, Loss: 0.0456991
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1910, Loss: 0.0257403
Epoch: 15, Step: 1920, Loss: 0.0341328
Epoch: 15, Step: 1930, Loss: 0.294134
Epoch: 15, Step: 1940, Loss: 1.3831
Epoch: 15, Step: 1950, Loss: 0.774554
Model saved in file: ./save\model.ckpt
Epoch: 16, Step: 1600, Loss: 0.0861752
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 1610, Loss: 0.051014
Epoch: 16, Step: 1620, Loss: 0.00491365
Epoch: 16, Step: 1630, Loss: 0.00278301
Epoch: 16, Step: 1640, Loss: 0.00930989
Epoch: 16, Step: 1650, Loss: 0.0334465
Epoch: 16, Step: 1660, Loss: 0.069921
Epoch: 16, Step: 1670, Loss: 0.00227792
Epoch: 16, Step: 1680, Loss: 0.0445369
Epoch: 16, Step: 1690, Loss: 0.128714
Epoch: 16, Step: 1700, Loss: 0.358357
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 1710, Loss: 0.207098
Epoch: 16, Step: 1720, Loss: 0.0144538
Epoch: 16, Step: 1730, Loss: 0.00958461
Epoch: 16, Step: 1740, Loss: 0.00900769
Epoch: 16, Step: 1750, Loss: 0.00993057
Epoch: 16, Step: 1760, Loss: 0.0132014
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Epoch: 15, Step: 1700, Loss: 0.0132011
Epoch: 16, Step: 1770, Loss: 1.18944
Epoch: 16, Step: 1780, Loss: 4.24425
Epoch: 16, Step: 1790, Loss: 0.0168077
Epoch: 16, Step: 1800, Loss: 0.00618402
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 1810, Loss: 0.00725838
Epoch: 16, Step: 1820, Loss: 0.0130272
Epoch: 16, Step: 1830, Loss: 0.00671282
Epoch: 16, Step: 1840, Loss: 0.00657181
Epoch: 16, Step: 1850, Loss: 0.00229213
Epoch: 16, Step: 1860, Loss: 0.00182986
Epoch: 16, Step: 1870, Loss: 0.00215833
Epoch: 16, Step: 1880, Loss: 0.000651527
Epoch: 16, Step: 1890, Loss: 0.00511512
Epoch: 16, Step: 1900, Loss: 0.0436511
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 1910, Loss: 0.0446864
Epoch: 16, Step: 1920, Loss: 0.0113593
Epoch: 16, Step: 1930, Loss: 0.000538931
Epoch: 16, Step: 1940, Loss: 0.00119579
Epoch: 16, Step: 1950, Loss: 0.00144664
Epoch: 16, Step: 1960, Loss: 0.000317091
Epoch: 16, Step: 1970, Loss: 0.000904703
Epoch: 16, Step: 1980, Loss: 0.00104945
Epoch: 16, Step: 1990, Loss: 0.000565212
Epoch: 16, Step: 2000, Loss: 0.00225351
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 2010, Loss: 0.00139469
Epoch: 16, Step: 2020, Loss: 0.00271616
Epoch: 16, Step: 2030, Loss: 0.00231931
Epoch: 16, Step: 2040, Loss: 0.00260704
Epoch: 16, Step: 2050, Loss: 0.00211665
Model saved in file: ./save\model.ckpt
Epoch: 17, Step: 1700, Loss: 0.00293145
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 1710, Loss: 0.0308621
Epoch: 17, Step: 1720, Loss: 0.0420926
Epoch: 17, Step: 1730, Loss: 3.45371
Epoch: 17, Step: 1740, Loss: 2.06598
Epoch: 17, Step: 1750, Loss: 0.00343189
Epoch: 17, Step: 1760, Loss: 0.00519718
Epoch: 17, Step: 1770, Loss: 0.0634159
Epoch: 17, Step: 1780, Loss: 0.0782365
Epoch: 17, Step: 1790, Loss: 0.0339281
Epoch: 17, Step: 1800, Loss: 0.0650015
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 1810, Loss: 0.0978066
Epoch: 17, Step: 1820, Loss: 0.00323018
Epoch: 17, Step: 1830, Loss: 0.0353379
Epoch: 17, Step: 1840, Loss: 0.0194177
Epoch: 17, Step: 1850, Loss: 0.0155776
Epoch: 17, Step: 1860, Loss: 0.00635485
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Epoch: 17, Step: 1860, Loss: 0.0985325
Epoch: 17, Step: 1870, Loss: 0.129
Epoch: 17, Step: 1880, Loss: 0.0748172
Epoch: 17, Step: 1890, Loss: 0.100151
Epoch: 17, Step: 1900, Loss: 0.0985325
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 1910, Loss: 0.0283365
Epoch: 17, Step: 1920, Loss: 0.0267043
Epoch: 17, Step: 1930, Loss: 0.0254079
Epoch: 17, Step: 1940, Loss: 0.0229748
Epoch: 17, Step: 1950, Loss: 0.0235315
Epoch: 17, Step: 1960, Loss: 0.0228687
Epoch: 17, Step: 1970, Loss: 0.0224147
Epoch: 17, Step: 1980, Loss: 0.0215342
Epoch: 17, Step: 1990, Loss: 0.0323319
Epoch: 17, Step: 2000, Loss: 0.0260663
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 2010, Loss: 0.0212629
Epoch: 17, Step: 2020, Loss: 0.00860835
Epoch: 17, Step: 2030, Loss: 0.0448018
Epoch: 17, Step: 2040, Loss: 0.0618919
Epoch: 17, Step: 2050, Loss: 0.112037
Epoch: 17, Step: 2060, Loss: 0.567318
Epoch: 17, Step: 2070, Loss: 0.408214
Epoch: 17, Step: 2080, Loss: 0.112547
Epoch: 17, Step: 2090, Loss: 0.0378273
Epoch: 17, Step: 2100, Loss: 0.0166189
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 2110, Loss: 0.0732557
Epoch: 17, Step: 2120, Loss: 0.534976
Epoch: 17, Step: 2130, Loss: 1.45288
Epoch: 17, Step: 2140, Loss: 0.549521
Epoch: 17, Step: 2150, Loss: 0.112906
Model saved in file: ./save\model.ckpt
Epoch: 18, Step: 1800, Loss: 0.0153255
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 1810, Loss: 0.00624401
Epoch: 18, Step: 1820, Loss: 0.0016466
Epoch: 18, Step: 1830, Loss: 0.00969976
Epoch: 18, Step: 1840, Loss: 0.0334135
Epoch: 18, Step: 1850, Loss: 0.0523943
Epoch: 18, Step: 1860, Loss: 0.00304412
Epoch: 18, Step: 1870, Loss: 0.0832612
Epoch: 18, Step: 1880, Loss: 0.211516
Epoch: 18, Step: 1890, Loss: 0.298743
Epoch: 18, Step: 1900, Loss: 0.221087
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 1910, Loss: 0.0164496
Epoch: 18, Step: 1920, Loss: 0.0152836
Epoch: 18, Step: 1930, Loss: 0.0150719
Epoch: 18, Step: 1940, Loss: 0.0156792
Epoch: 18, Step: 1950, Loss: 0.024108
Epoch: 18, Step: 1960, Loss: 0.46098
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Epoch: 18, Step: 1900, Loss: 2.490990
Epoch: 18, Step: 1970, Loss: 2.89991
Epoch: 18, Step: 1980, Loss: 0.0169894
Epoch: 18, Step: 1990, Loss: 0.00676959
Epoch: 18, Step: 2000, Loss: 0.00596542
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 2010, Loss: 0.0130219
Epoch: 18, Step: 2020, Loss: 0.003821
Epoch: 18, Step: 2030, Loss: 0.0060103
Epoch: 18, Step: 2040, Loss: 0.00283432
Epoch: 18, Step: 2050, Loss: 0.00404549
Epoch: 18, Step: 2060, Loss: 0.00499348
Epoch: 18, Step: 2070, Loss: 0.00227666
Epoch: 18, Step: 2080, Loss: 0.0091186
Epoch: 18, Step: 2090, Loss: 0.0347833
Epoch: 18, Step: 2100, Loss: 0.0338924
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 2110, Loss: 0.00307305
Epoch: 18, Step: 2120, Loss: 0.000807741
Epoch: 18, Step: 2130, Loss: 0.00173317
Epoch: 18, Step: 2140, Loss: 0.00138383
Epoch: 18, Step: 2150, Loss: 0.000656028
Epoch: 18, Step: 2160, Loss: 0.00195785
Epoch: 18, Step: 2170, Loss: 0.000285603
Epoch: 18, Step: 2180, Loss: 0.000488613
Epoch: 18, Step: 2190, Loss: 0.00167222
Epoch: 18, Step: 2200, Loss: 0.00089973
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 2210, Loss: 0.00128181
Epoch: 18, Step: 2220, Loss: 0.000721491
Epoch: 18, Step: 2230, Loss: 0.000604633
Epoch: 18, Step: 2240, Loss: 0.000627085
Epoch: 18, Step: 2250, Loss: 0.000572624
Model saved in file: ./save\model.ckpt
Epoch: 19, Step: 1900, Loss: 0.029033
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 1910, Loss: 0.0371378
Epoch: 19, Step: 1920, Loss: 4.64373
Epoch: 19, Step: 1930, Loss: 0.74973
Epoch: 19, Step: 1940, Loss: 0.00137219
Epoch: 19, Step: 1950, Loss: 0.0205323
Epoch: 19, Step: 1960, Loss: 0.0766871
Epoch: 19, Step: 1970, Loss: 0.0917497
Epoch: 19, Step: 1980, Loss: 0.0157959
Epoch: 19, Step: 1990, Loss: 0.0797193
Epoch: 19, Step: 2000, Loss: 0.0722791
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
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WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 2010, Loss: 0.00230035
Epoch: 19, Step: 2020, Loss: 0.0496926
Epoch: 19, Step: 2030, Loss: 0.0116681
Epoch: 19, Step: 2040, Loss: 0.0175207
Epoch: 19, Step: 2050, Loss: 0.00500272
Epoch: 19, Step: 2060, Loss: 0.128181
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Epoch: 19, Step: 2000, Loss: 0.139100
Epoch: 19, Step: 2070, Loss: 0.0393991
Epoch: 19, Step: 2080, Loss: 0.148949
Epoch: 19, Step: 2090, Loss: 0.0898981
Epoch: 19, Step: 2100, Loss: 0.0258475
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 2110, Loss: 0.0154429
Epoch: 19, Step: 2120, Loss: 0.0170698
Epoch: 19, Step: 2130, Loss: 0.0147557
Epoch: 19, Step: 2140, Loss: 0.0158191
Epoch: 19, Step: 2150, Loss: 0.0170194
Epoch: 19, Step: 2160, Loss: 0.0181551
Epoch: 19, Step: 2170, Loss: 0.0178674
Epoch: 19, Step: 2180, Loss: 0.0341181
Epoch: 19, Step: 2190, Loss: 0.0308762
Epoch: 19, Step: 2200, Loss: 0.0173306
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
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WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 2210, Loss: 0.0155118
Epoch: 19, Step: 2220, Loss: 0.0757647
Epoch: 19, Step: 2230, Loss: 0.0439048
Epoch: 19, Step: 2240, Loss: 0.25729
Epoch: 19, Step: 2250, Loss: 0.625276
Epoch: 19, Step: 2260, Loss: 0.338777
Epoch: 19, Step: 2270, Loss: 0.114963
Epoch: 19, Step: 2280, Loss: 0.0563831
Epoch: 19, Step: 2290, Loss: 0.00909584
Epoch: 19, Step: 2300, Loss: 0.0854976
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 2310, Loss: 0.701977
Epoch: 19, Step: 2320, Loss: 1.41081
Epoch: 19, Step: 2330, Loss: 0.285508
Epoch: 19, Step: 2340, Loss: 0.134512
Epoch: 19, Step: 2350, Loss: 0.00352792
Model saved in file: ./save\model.ckpt
Epoch: 20, Step: 2000, Loss: 0.00533842
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2010, Loss: 0.00140066
Epoch: 20, Step: 2020, Loss: 0.013585
Epoch: 20, Step: 2030, Loss: 0.0404081
Epoch: 20, Step: 2040, Loss: 0.048629
Epoch: 20, Step: 2050, Loss: 0.00793172
Epoch: 20, Step: 2060, Loss: 0.105462
Epoch: 20, Step: 2070, Loss: 0.36743
Epoch: 20, Step: 2080, Loss: 0.0956014
Epoch: 20, Step: 2090, Loss: 0.17366
Epoch: 20, Step: 2100, Loss: 0.00733265
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2110, Loss: 0.00819297
Epoch: 20, Step: 2120, Loss: 0.009341
Epoch: 20, Step: 2130, Loss: 0.00942267
Epoch: 20, Step: 2140, Loss: 0.0179129
Epoch: 20, Step: 2150, Loss: 4.01722
Epoch: 20, Step: 2160, Loss: 1.46460
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Epoch: 20, Step: 2160, Loss: 1.46462
Epoch: 20, Step: 2170, Loss: 0.0138209
Epoch: 20, Step: 2180, Loss: 0.00539242
Epoch: 20, Step: 2190, Loss: 0.00716936
Epoch: 20, Step: 2200, Loss: 0.0151744
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2210, Loss: 0.00634586
Epoch: 20, Step: 2220, Loss: 0.00344888
Epoch: 20, Step: 2230, Loss: 0.00105708
Epoch: 20, Step: 2240, Loss: 0.00201937
Epoch: 20, Step: 2250, Loss: 0.00257841
Epoch: 20, Step: 2260, Loss: 0.00147105
Epoch: 20, Step: 2270, Loss: 0.0150338
Epoch: 20, Step: 2280, Loss: 0.0524352
Epoch: 20, Step: 2290, Loss: 0.0366968
Epoch: 20, Step: 2300, Loss: 0.000765443
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2310, Loss: 0.0011824
Epoch: 20, Step: 2320, Loss: 0.000295224
Epoch: 20, Step: 2330, Loss: 0.00148775
Epoch: 20, Step: 2340, Loss: 0.000300096
Epoch: 20, Step: 2350, Loss: 0.00120429
Epoch: 20, Step: 2360, Loss: 0.000540006
Epoch: 20, Step: 2370, Loss: 0.000453788
Epoch: 20, Step: 2380, Loss: 0.00185854
Epoch: 20, Step: 2390, Loss: 0.00147833
Epoch: 20, Step: 2400, Loss: 0.00181203
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2410, Loss: 0.00127547
Epoch: 20, Step: 2420, Loss: 0.00225277
Epoch: 20, Step: 2430, Loss: 0.00217972
Epoch: 20, Step: 2440, Loss: 0.00452691
Epoch: 20, Step: 2450, Loss: 0.0512565
Model saved in file: ./save\model.ckpt
Epoch: 21, Step: 2100, Loss: 0.0659184
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2110, Loss: 5.46841
Epoch: 21, Step: 2120, Loss: 0.0629087
Epoch: 21, Step: 2130, Loss: 0.00208695
Epoch: 21, Step: 2140, Loss: 0.0270633
Epoch: 21, Step: 2150, Loss: 0.0638747
Epoch: 21, Step: 2160, Loss: 0.0686773
Epoch: 21, Step: 2170, Loss: 0.00582015
Epoch: 21, Step: 2180, Loss: 0.109842
Epoch: 21, Step: 2190, Loss: 0.0548791
Epoch: 21, Step: 2200, Loss: 0.00178657
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2210, Loss: 0.0480885
Epoch: 21, Step: 2220, Loss: 0.0146158
Epoch: 21, Step: 2230, Loss: 0.0129803
Epoch: 21, Step: 2240, Loss: 0.0316792
Epoch: 21, Step: 2250, Loss: 0.151621
Epoch: 21, Step: 2260, Loss: 0.0400576
```

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Epoch: 21, Step: 2260, Loss: 0.0408516
Epoch: 21, Step: 2270, Loss: 0.120753
Epoch: 21, Step: 2280, Loss: 0.0548595
Epoch: 21, Step: 2290, Loss: 0.040163
Epoch: 21, Step: 2300, Loss: 0.0257098
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2310, Loss: 0.0212977
Epoch: 21, Step: 2320, Loss: 0.0222443
Epoch: 21, Step: 2330, Loss: 0.0231173
Epoch: 21, Step: 2340, Loss: 0.0234696
Epoch: 21, Step: 2350, Loss: 0.0228642
Epoch: 21, Step: 2360, Loss: 0.027224
Epoch: 21, Step: 2370, Loss: 0.0330635
Epoch: 21, Step: 2380, Loss: 0.0408682
Epoch: 21, Step: 2390, Loss: 0.00868502
Epoch: 21, Step: 2400, Loss: 0.0194822
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2410, Loss: 0.0822585
Epoch: 21, Step: 2420, Loss: 0.0237125
Epoch: 21, Step: 2430, Loss: 0.32127
Epoch: 21, Step: 2440, Loss: 0.6046
Epoch: 21, Step: 2450, Loss: 0.229473
Epoch: 21, Step: 2460, Loss: 0.0673579
Epoch: 21, Step: 2470, Loss: 0.0362142
Epoch: 21, Step: 2480, Loss: 0.0170561
Epoch: 21, Step: 2490, Loss: 0.125834
Epoch: 21, Step: 2500, Loss: 0.948471
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2510, Loss: 1.43941
Epoch: 21, Step: 2520, Loss: 0.119997
Epoch: 21, Step: 2530, Loss: 0.119183
Epoch: 21, Step: 2540, Loss: 0.00132678
Epoch: 21, Step: 2550, Loss: 0.00560475
Model saved in file: ./save\model.ckpt
Epoch: 22, Step: 2200, Loss: 0.00725034
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2210, Loss: 0.0140719
Epoch: 22, Step: 2220, Loss: 0.0405662
Epoch: 22, Step: 2230, Loss: 0.0365096
Epoch: 22, Step: 2240, Loss: 0.00553286
Epoch: 22, Step: 2250, Loss: 0.12529
Epoch: 22, Step: 2260, Loss: 0.418222
Epoch: 22, Step: 2270, Loss: 0.101977
Epoch: 22, Step: 2280, Loss: 0.156717
Epoch: 22, Step: 2290, Loss: 0.0154696
Epoch: 22, Step: 2300, Loss: 0.0157241
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2310, Loss: 0.0150194
Epoch: 22, Step: 2320, Loss: 0.014665
Epoch: 22, Step: 2330, Loss: 0.0287962
Epoch: 22, Step: 2340, Loss: 4.98699
Epoch: 22, Step: 2350, Loss: 0.36367
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Epoch: 22, Step: 2360, Loss: 0.0159346
Epoch: 22, Step: 2370, Loss: 0.0071032
Epoch: 22, Step: 2380, Loss: 0.011853
Epoch: 22, Step: 2390, Loss: 0.0154992
Epoch: 22, Step: 2400, Loss: 0.00693529
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2410, Loss: 0.00298011
Epoch: 22, Step: 2420, Loss: 0.00220294
Epoch: 22, Step: 2430, Loss: 0.00260133
Epoch: 22, Step: 2440, Loss: 0.00460482
Epoch: 22, Step: 2450, Loss: 0.00595499
Epoch: 22, Step: 2460, Loss: 0.0134223
Epoch: 22, Step: 2470, Loss: 0.0367254
Epoch: 22, Step: 2480, Loss: 0.0199517
Epoch: 22, Step: 2490, Loss: 0.0031973
Epoch: 22, Step: 2500, Loss: 0.000946305
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2510, Loss: 0.00211792
Epoch: 22, Step: 2520, Loss: 0.00182009
Epoch: 22, Step: 2530, Loss: 0.000342022
Epoch: 22, Step: 2540, Loss: 0.00262557
Epoch: 22, Step: 2550, Loss: 0.000357204
Epoch: 22, Step: 2560, Loss: 0.000872977
Epoch: 22, Step: 2570, Loss: 0.00142427
Epoch: 22, Step: 2580, Loss: 0.00152447
Epoch: 22, Step: 2590, Loss: 0.00097491
Epoch: 22, Step: 2600, Loss: 0.000740511
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2610, Loss: 0.000588303
Epoch: 22, Step: 2620, Loss: 0.000854046
Epoch: 22, Step: 2630, Loss: 0.0036016
Epoch: 22, Step: 2640, Loss: 0.0611358
Epoch: 22, Step: 2650, Loss: 0.788474
Model saved in file: ./save\model.ckpt
Epoch: 23, Step: 2300, Loss: 4.59349
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2310, Loss: 0.00563566
Epoch: 23, Step: 2320, Loss: 0.001071
Epoch: 23, Step: 2330, Loss: 0.0484598
Epoch: 23, Step: 2340, Loss: 0.0746468
Epoch: 23, Step: 2350, Loss: 0.078101
Epoch: 23, Step: 2360, Loss: 0.00950644
Epoch: 23, Step: 2370, Loss: 0.11635
Epoch: 23, Step: 2380, Loss: 0.025961
Epoch: 23, Step: 2390, Loss: 0.00516538
Epoch: 23, Step: 2400, Loss: 0.0419178
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2410, Loss: 0.013222
Epoch: 23, Step: 2420, Loss: 0.0144461
Epoch: 23, Step: 2430, Loss: 0.056893
Epoch: 23, Step: 2440, Loss: 0.118353
Epoch: 23, Step: 2450, Loss: 0.0690046
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Epoch: 23, Step: 2460, Loss: 0.137333
Epoch: 23, Step: 2470, Loss: 0.0397507
Epoch: 23, Step: 2480, Loss: 0.0286829
Epoch: 23, Step: 2490, Loss: 0.015396
Epoch: 23, Step: 2500, Loss: 0.0127841
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2510, Loss: 0.0149144
Epoch: 23, Step: 2520, Loss: 0.0153981
Epoch: 23, Step: 2530, Loss: 0.0148677
Epoch: 23, Step: 2540, Loss: 0.0154861
Epoch: 23, Step: 2550, Loss: 0.0278393
Epoch: 23, Step: 2560, Loss: 0.0240574
Epoch: 23, Step: 2570, Loss: 0.0339465
Epoch: 23, Step: 2580, Loss: 0.00486668
Epoch: 23, Step: 2590, Loss: 0.0290844
Epoch: 23, Step: 2600, Loss: 0.0946092
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2610, Loss: 0.0146014
Epoch: 23, Step: 2620, Loss: 0.452481
Epoch: 23, Step: 2630, Loss: 0.61576
Epoch: 23, Step: 2640, Loss: 0.208644
Epoch: 23, Step: 2650, Loss: 0.0490755
Epoch: 23, Step: 2660, Loss: 0.040045
Epoch: 23, Step: 2670, Loss: 0.0148116
Epoch: 23, Step: 2680, Loss: 0.141546
Epoch: 23, Step: 2690, Loss: 1.14784
Epoch: 23, Step: 2700, Loss: 1.16898
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2710, Loss: 0.0534113
Epoch: 23, Step: 2720, Loss: 0.111269
Epoch: 23, Step: 2730, Loss: 0.00246266
Epoch: 23, Step: 2740, Loss: 0.00371394
Epoch: 23, Step: 2750, Loss: 0.00977314
Model saved in file: ./save\model.ckpt
Epoch: 24, Step: 2400, Loss: 0.0168125
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2410, Loss: 0.0470453
Epoch: 24, Step: 2420, Loss: 0.018366
Epoch: 24, Step: 2430, Loss: 0.0110433
Epoch: 24, Step: 2440, Loss: 0.118603
Epoch: 24, Step: 2450, Loss: 0.407777
Epoch: 24, Step: 2460, Loss: 0.189951
Epoch: 24, Step: 2470, Loss: 0.0364217
Epoch: 24, Step: 2480, Loss: 0.00768394
Epoch: 24, Step: 2490, Loss: 0.00755586
Epoch: 24, Step: 2500, Loss: 0.00742906
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2510, Loss: 0.00739908
Epoch: 24, Step: 2520, Loss: 0.205774
Epoch: 24, Step: 2530, Loss: 5.21873
Epoch: 24, Step: 2540, Loss: 0.0954938
Epoch: 24, Step: 2550, Loss: 0.0101645
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Epoch: 24, Step: 2560, Loss: 0.00474596
Epoch: 24, Step: 2570, Loss: 0.0116097
Epoch: 24, Step: 2580, Loss: 0.0100328
Epoch: 24, Step: 2590, Loss: 0.00692039
Epoch: 24, Step: 2600, Loss: 0.00250237
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2610, Loss: 0.00224887
Epoch: 24, Step: 2620, Loss: 0.0017958
Epoch: 24, Step: 2630, Loss: 0.00200202
Epoch: 24, Step: 2640, Loss: 0.0035506
Epoch: 24, Step: 2650, Loss: 0.0297211
Epoch: 24, Step: 2660, Loss: 0.0457227
Epoch: 24, Step: 2670, Loss: 0.0220803
Epoch: 24, Step: 2680, Loss: 0.000536668
Epoch: 24, Step: 2690, Loss: 0.00125922
Epoch: 24, Step: 2700, Loss: 0.000503299
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2710, Loss: 0.00126662
Epoch: 24, Step: 2720, Loss: 0.000443631
Epoch: 24, Step: 2730, Loss: 0.00115786
Epoch: 24, Step: 2740, Loss: 0.000536723
Epoch: 24, Step: 2750, Loss: 0.000994134
Epoch: 24, Step: 2760, Loss: 0.000618366
Epoch: 24, Step: 2770, Loss: 0.00105422
Epoch: 24, Step: 2780, Loss: 0.00108194
Epoch: 24, Step: 2790, Loss: 0.00133398
Epoch: 24, Step: 2800, Loss: 0.000784578
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2810, Loss: 0.0020218
Epoch: 24, Step: 2820, Loss: 0.00840961
Epoch: 24, Step: 2830, Loss: 0.0610955
Epoch: 24, Step: 2840, Loss: 2.11467
Epoch: 24, Step: 2850, Loss: 3.45247
Model saved in file: ./save\model.ckpt
Epoch: 25, Step: 2500, Loss: 0.00874657
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2510, Loss: 0.0031079
Epoch: 25, Step: 2520, Loss: 0.0470659
Epoch: 25, Step: 2530, Loss: 0.0587153
Epoch: 25, Step: 2540, Loss: 0.0551232
Epoch: 25, Step: 2550, Loss: 0.0404775
Epoch: 25, Step: 2560, Loss: 0.131529
Epoch: 25, Step: 2570, Loss: 0.00644053
Epoch: 25, Step: 2580, Loss: 0.0202688
Epoch: 25, Step: 2590, Loss: 0.0298739
Epoch: 25, Step: 2600, Loss: 0.0151085
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2610, Loss: 0.0119464
Epoch: 25, Step: 2620, Loss: 0.0837051
Epoch: 25, Step: 2630, Loss: 0.108513
Epoch: 25, Step: 2640, Loss: 0.0780564
Epoch: 25, Step: 2650, Loss: 0.127351
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Epoch: 25, Step: 2660, Loss: 0.0173194
Epoch: 25, Step: 2670, Loss: 0.0373208
Epoch: 25, Step: 2680, Loss: 0.0256923
Epoch: 25, Step: 2690, Loss: 0.0227582
Epoch: 25, Step: 2700, Loss: 0.0221457
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2710, Loss: 0.0223401
Epoch: 25, Step: 2720, Loss: 0.0223374
Epoch: 25, Step: 2730, Loss: 0.0228853
Epoch: 25, Step: 2740, Loss: 0.0384868
Epoch: 25, Step: 2750, Loss: 0.030728
Epoch: 25, Step: 2760, Loss: 0.0337003
Epoch: 25, Step: 2770, Loss: 0.00355215
Epoch: 25, Step: 2780, Loss: 0.0435984
Epoch: 25, Step: 2790, Loss: 0.0914005
Epoch: 25, Step: 2800, Loss: 0.0187779
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2810, Loss: 0.538156
Epoch: 25, Step: 2820, Loss: 0.536761
Epoch: 25, Step: 2830, Loss: 0.14864
Epoch: 25, Step: 2840, Loss: 0.0337272
Epoch: 25, Step: 2850, Loss: 0.0213922
Epoch: 25, Step: 2860, Loss: 0.0414287
Epoch: 25, Step: 2870, Loss: 0.293552
Epoch: 25, Step: 2880, Loss: 1.44688
Epoch: 25, Step: 2890, Loss: 0.898855
Epoch: 25, Step: 2900, Loss: 0.0659007
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2910, Loss: 0.0541607
Epoch: 25, Step: 2920, Loss: 0.00434405
Epoch: 25, Step: 2930, Loss: 0.00389073
Epoch: 25, Step: 2940, Loss: 0.00947313
Epoch: 25, Step: 2950, Loss: 0.0259113
Model saved in file: ./save\model.ckpt
Epoch: 26, Step: 2600, Loss: 0.0606202
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 2610, Loss: 0.00213076
Epoch: 26, Step: 2620, Loss: 0.0365138
Epoch: 26, Step: 2630, Loss: 0.138803
Epoch: 26, Step: 2640, Loss: 0.383614
Epoch: 26, Step: 2650, Loss: 0.22824
Epoch: 26, Step: 2660, Loss: 0.0186054
Epoch: 26, Step: 2670, Loss: 0.0132715
Epoch: 26, Step: 2680, Loss: 0.0146123
Epoch: 26, Step: 2690, Loss: 0.015603
Epoch: 26, Step: 2700, Loss: 0.0173009
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 2710, Loss: 0.887218
Epoch: 26, Step: 2720, Loss: 4.48353
Epoch: 26, Step: 2730, Loss: 0.02359
Epoch: 26, Step: 2740, Loss: 0.00898051
Epoch: 26, Step: 2750, Loss: 0.00943368
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Epoch: 26, Step: 2760, Loss: 0.0163681
Epoch: 26, Step: 2770, Loss: 0.0086665
Epoch: 26, Step: 2780, Loss: 0.00767262
Epoch: 26, Step: 2790, Loss: 0.00163123
Epoch: 26, Step: 2800, Loss: 0.00234759
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 2810, Loss: 0.00326432
Epoch: 26, Step: 2820, Loss: 0.00146592
Epoch: 26, Step: 2830, Loss: 0.00559947
Epoch: 26, Step: 2840, Loss: 0.0300068
Epoch: 26, Step: 2850, Loss: 0.0337201
Epoch: 26, Step: 2860, Loss: 0.0111879
Epoch: 26, Step: 2870, Loss: 0.0020928
Epoch: 26, Step: 2880, Loss: 0.00200374
Epoch: 26, Step: 2890, Loss: 0.00235975
Epoch: 26, Step: 2900, Loss: 0.00157333
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 2910, Loss: 0.00169039
Epoch: 26, Step: 2920, Loss: 0.00176638
Epoch: 26, Step: 2930, Loss: 0.000855363
Epoch: 26, Step: 2940, Loss: 0.00208148
Epoch: 26, Step: 2950, Loss: 0.00105242
Epoch: 26, Step: 2960, Loss: 0.0011394
Epoch: 26, Step: 2970, Loss: 0.00116639
Epoch: 26, Step: 2980, Loss: 0.000874872
Epoch: 26, Step: 2990, Loss: 0.000527199
Epoch: 26, Step: 3000, Loss: 0.000947326
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 3010, Loss: 0.0160462
Epoch: 26, Step: 3020, Loss: 0.0517315
Epoch: 26, Step: 3030, Loss: 3.11394
Epoch: 26, Step: 3040, Loss: 2.31255
Epoch: 26, Step: 3050, Loss: 0.00196626
Model saved in file: ./save\model.ckpt
Epoch: 27, Step: 2700, Loss: 0.00308628
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 2710, Loss: 0.072134
Epoch: 27, Step: 2720, Loss: 0.0807353
Epoch: 27, Step: 2730, Loss: 0.0451859
Epoch: 27, Step: 2740, Loss: 0.0558635
Epoch: 27, Step: 2750, Loss: 0.0939102
Epoch: 27, Step: 2760, Loss: 0.00408916
Epoch: 27, Step: 2770, Loss: 0.0295597
Epoch: 27, Step: 2780, Loss: 0.0203333
Epoch: 27, Step: 2790, Loss: 0.016433
Epoch: 27, Step: 2800, Loss: 0.00691808
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 2810, Loss: 0.112267
Epoch: 27, Step: 2820, Loss: 0.0750493
Epoch: 27, Step: 2830, Loss: 0.107345
Epoch: 27, Step: 2840, Loss: 0.122843
Epoch: 27, Step: 2850, Loss: 0.018343
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```
Epoch: 27, Step: 2860, Loss: 0.0198514
Epoch: 27, Step: 2870, Loss: 0.0148689
Epoch: 27, Step: 2880, Loss: 0.0128306
Epoch: 27, Step: 2890, Loss: 0.0126741
Epoch: 27, Step: 2900, Loss: 0.0132218
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 2910, Loss: 0.0149158
Epoch: 27, Step: 2920, Loss: 0.014824
Epoch: 27, Step: 2930, Loss: 0.0271532
Epoch: 27, Step: 2940, Loss: 0.0240752
Epoch: 27, Step: 2950, Loss: 0.0224678
Epoch: 27, Step: 2960, Loss: 0.00826889
Epoch: 27, Step: 2970, Loss: 0.0489711
Epoch: 27, Step: 2980, Loss: 0.0764554
Epoch: 27, Step: 2990, Loss: 0.0901905
Epoch: 27, Step: 3000, Loss: 0.602583
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 3010, Loss: 0.473007
Epoch: 27, Step: 3020, Loss: 0.134034
Epoch: 27, Step: 3030, Loss: 0.0446606
Epoch: 27, Step: 3040, Loss: 0.0192965
Epoch: 27, Step: 3050, Loss: 0.0559811
Epoch: 27, Step: 3060, Loss: 0.441134
Epoch: 27, Step: 3070, Loss: 1.40245
Epoch: 27, Step: 3080, Loss: 0.595769
Epoch: 27, Step: 3090, Loss: 0.112392
Epoch: 27, Step: 3100, Loss: 0.0238476
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 3110, Loss: 0.0056161
Epoch: 27, Step: 3120, Loss: 0.000740704
Epoch: 27, Step: 3130, Loss: 0.0101181
Epoch: 27, Step: 3140, Loss: 0.0272061
Epoch: 27, Step: 3150, Loss: 0.0506142
Model saved in file: ./save\model.ckpt
Epoch: 28, Step: 2800, Loss: 0.00208382
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 2810, Loss: 0.0755339
Epoch: 28, Step: 2820, Loss: 0.154008
Epoch: 28, Step: 2830, Loss: 0.339997
Epoch: 28, Step: 2840, Loss: 0.208142
Epoch: 28, Step: 2850, Loss: 0.0114611
Epoch: 28, Step: 2860, Loss: 0.00837037
Epoch: 28, Step: 2870, Loss: 0.00849533
Epoch: 28, Step: 2880, Loss: 0.00765881
Epoch: 28, Step: 2890, Loss: 0.0134229
Epoch: 28, Step: 2900, Loss: 2.16661
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 2910, Loss: 3.3854
Epoch: 28, Step: 2920, Loss: 0.0133396
Epoch: 28, Step: 2930, Loss: 0.0043399
Epoch: 28, Step: 2940, Loss: 0.0041597
Epoch: 28, Step: 2950, Loss: 0.0111366
```

```
Epoch: 28, Step: 2960, Loss: 0.00427191
Epoch: 28, Step: 2970, Loss: 0.00673674
Epoch: 28, Step: 2980, Loss: 0.00184846
Epoch: 28, Step: 2990, Loss: 0.00215592
Epoch: 28, Step: 3000, Loss: 0.00291344
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 3010, Loss: 0.000693324
Epoch: 28, Step: 3020, Loss: 0.0079267
Epoch: 28, Step: 3030, Loss: 0.0436196
Epoch: 28, Step: 3040, Loss: 0.0410878
Epoch: 28, Step: 3050, Loss: 0.00430379
Epoch: 28, Step: 3060, Loss: 0.000664196
Epoch: 28, Step: 3070, Loss: 0.000805377
Epoch: 28, Step: 3080, Loss: 0.00138975
Epoch: 28, Step: 3090, Loss: 0.000348177
Epoch: 28, Step: 3100, Loss: 0.00130731
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 3110, Loss: 0.000662407
Epoch: 28, Step: 3120, Loss: 0.00031874
Epoch: 28, Step: 3130, Loss: 0.000994945
Epoch: 28, Step: 3140, Loss: 0.000807551
Epoch: 28, Step: 3150, Loss: 0.00072588
Epoch: 28, Step: 3160, Loss: 0.000634456
Epoch: 28, Step: 3170, Loss: 0.000368453
Epoch: 28, Step: 3180, Loss: 0.000791648
Epoch: 28, Step: 3190, Loss: 0.00140371
Epoch: 28, Step: 3200, Loss: 0.0354378
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 3210, Loss: 0.032849
Epoch: 28, Step: 3220, Loss: 4.41842
Epoch: 28, Step: 3230, Loss: 1.13068
Epoch: 28, Step: 3240, Loss: 0.00291092
Epoch: 28, Step: 3250, Loss: 0.0136013
Model saved in file: ./save\model.ckpt
Epoch: 29, Step: 2900, Loss: 0.055514
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 2910, Loss: 0.0703742
Epoch: 29, Step: 2920, Loss: 0.0139516
Epoch: 29, Step: 2930, Loss: 0.088115
Epoch: 29, Step: 2940, Loss: 0.0893462
Epoch: 29, Step: 2950, Loss: 0.00242684
Epoch: 29, Step: 2960, Loss: 0.0482504
Epoch: 29, Step: 2970, Loss: 0.0141436
Epoch: 29, Step: 2980, Loss: 0.0150392
Epoch: 29, Step: 2990, Loss: 0.00460782
Epoch: 29, Step: 3000, Loss: 0.146524
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 3010, Loss: 0.0474916
Epoch: 29, Step: 3020, Loss: 0.125571
Epoch: 29, Step: 3030, Loss: 0.0836228
Epoch: 29, Step: 3040, Loss: 0.0318471
Epoch: 29, Step: 3050, Loss: 0.0205001
```

```

Epoch: 29, Step: 3060, Loss: 0.0220412
Epoch: 29, Step: 3070, Loss: 0.0215805
Epoch: 29, Step: 3080, Loss: 0.0229949
Epoch: 29, Step: 3090, Loss: 0.0228842
Epoch: 29, Step: 3100, Loss: 0.0217506
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 3110, Loss: 0.020479
Epoch: 29, Step: 3120, Loss: 0.0385603
Epoch: 29, Step: 3130, Loss: 0.0347054
Epoch: 29, Step: 3140, Loss: 0.0227496
Epoch: 29, Step: 3150, Loss: 0.0156126
Epoch: 29, Step: 3160, Loss: 0.0770461
Epoch: 29, Step: 3170, Loss: 0.0545484
Epoch: 29, Step: 3180, Loss: 0.234808
Epoch: 29, Step: 3190, Loss: 0.60416
Epoch: 29, Step: 3200, Loss: 0.346127
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 3210, Loss: 0.108027
Epoch: 29, Step: 3220, Loss: 0.0439309
Epoch: 29, Step: 3230, Loss: 0.0120532
Epoch: 29, Step: 3240, Loss: 0.095864
Epoch: 29, Step: 3250, Loss: 0.702784
Epoch: 29, Step: 3260, Loss: 1.51081
Epoch: 29, Step: 3270, Loss: 0.379498
Epoch: 29, Step: 3280, Loss: 0.107564
Epoch: 29, Step: 3290, Loss: 0.00458249
Epoch: 29, Step: 3300, Loss: 0.00731442
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 3310, Loss: 0.00346182
Epoch: 29, Step: 3320, Loss: 0.0123202
Epoch: 29, Step: 3330, Loss: 0.040035
Epoch: 29, Step: 3340, Loss: 0.0485
Epoch: 29, Step: 3350, Loss: 0.00542534
Model saved in file: ./save\model.ckpt
Run the command line:
--> tensorboard --logdir=./logs
Then open http://0.0.0.0:6006/ into your web browser

```

FROM ABOVE OBSERVATION YOU CAN SEE THAT MY LOSS IS UNEVEN MODEL MIGHT BE OVERFITTING BECAUSE IT IS GIVING TOO LOW LOSS AND LOSS IS INCREASING AND DECREASING

VISUALIZATION AND TEST

In [0]:

```

#pip3 install opencv-python

import tensorflow as tf
import scipy.misc
import model
import cv2
from subprocess import call
import math

sess = tf.InteractiveSession()
saver = tf.train.Saver()
saver.restore(sess, "save/model.ckpt")

```

```

img = cv2.imread('steering_wheel_image.jpg',0)
rows,cols = img.shape

smoothed_angle = 0

#read data.txt
xs = []
ys = []
with open("driving_dataset/data.txt") as f:
    for line in f:
        xs.append("driving_dataset/" + line.split()[0])
        #the paper by Nvidia uses the inverse of the turning radius,
        #but steering wheel angle is proportional to the inverse of turning radius
        #so the steering wheel angle in radians is used as the output
        ys.append(float(line.split()[1]) * scipy.pi / 180)

#get number of images
num_images = len(xs)

i = math.ceil(num_images*0.8)
print("Starting frameofvideo:" +str(i))

while(cv2.waitKey(10) != ord('q')):
    full_image = scipy.misc.imread("driving_dataset/" + str(i) + ".jpg", mode="RGB")
    image = scipy.misc.imresize(full_image[-150:], [66, 200]) / 255.0
    degrees = model.y.eval(feed_dict={model.x: [image], model.keep_prob: 0.5})[0][0] * 180.0 /
    scipy.pi
    #call("clear")
    #print("Predicted Steering angle: " + str(degrees))
    print("Steering angle: " + str(degrees) + " (pred)\t" + str(ys[i]*180/scipy.pi) + " (actual)")
    cv2.imshow("frame", cv2.cvtColor(full_image, cv2.COLOR_RGB2BGR))
    #make smooth angle transitions by turning the steering wheel based on the difference of the cu
rrrent angle
    #and the predicted angle}
    smoothed_angle += 0.2 * pow(abs((degrees - smoothed_angle)), 2.0 / 3.0) * (degrees -
    smoothed_angle) / abs(degrees - smoothed_angle)
    M = cv2.getRotationMatrix2D((cols/2,rows/2),-smoothed_angle,1)
    dst = cv2.warpAffine(img,M,(cols,rows))
    cv2.imshow("steering wheel", dst)
    i += 1

cv2.destroyAllWindows()

```

INFO:tensorflow:Restoring parameters from save/model.ckpt

C:\Users\aman\Anaconda3\lib\site-packages\tensorflow_core\python\client\session.py:1750: UserWarning: An interactive session is already active. This can cause out-of-memory errors in some cases. You must explicitly call `InteractiveSession.close()` to release resources held by the other session(s).

warnings.warn('An interactive session is already active. This can '

Starting frameofvideo:36325
Steering angle: 2.6085312062979096 (pred) -10.79 (actual)
Steering angle: 2.6085312062979096 (pred) -10.08 (actual)
Steering angle: 2.6085312062979096 (pred) -9.380000000000003 (actual)
Steering angle: 2.6085312062979096 (pred) -7.559999999999999 (actual)

C:\Users\aman\Anaconda3\lib\site-packages\ipykernel_launcher.py:39: DeprecationWarning: `imread` is deprecated!
`imread` is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
Use ``imageio.imread`` instead.

C:\Users\aman\Anaconda3\lib\site-packages\ipykernel_launcher.py:40: DeprecationWarning: `imresize` is deprecated!
`imresize` is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
Use ``skimage.transform.resize`` instead.

Steering angle: 2.6085312062979096 (pred) -5.949999999999999 (actual)
Steering angle: 2.6085312062979096 (pred) -3.23 (actual)
Steering angle: 2.6085312062979096 (pred) -0.81 (actual)
Steering angle: 2.6085312062979096 (pred) 1.21 (actual)
Steering angle: 2.6085312062979096 (pred) 3.4300000000000006 (actual)
Steering angle: 2.6085312062979096 (pred) 4.44 (actual)
Steering angle: 2.6085312062979096 (pred) 5.340000000000001 (actual)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```

steering angle: 2.6085312062979096 (pred) 13.55 (actual)
Steering angle: 2.6085312062979096 (pred) 14.52 (actual)
Steering angle: 2.6085312062979096 (pred) 13.41 (actual)
Steering angle: 2.6085312062979096 (pred) 12.709999999999999 (actual)
Steering angle: 2.6085312062979096 (pred) 11.8 (actual)
Steering angle: 2.6085312062979096 (pred) 11.290000000000001 (actual)
Steering angle: 2.6085312062979096 (pred) 10.69 (actual)
Steering angle: 2.6085312062979096 (pred) 9.78 (actual)
Steering angle: 2.6085312062979096 (pred) 8.87 (actual)
Steering angle: 2.6085312062979096 (pred) 8.27 (actual)
Steering angle: 2.6085312062979096 (pred) 7.87 (actual)
Steering angle: 2.6085312062979096 (pred) 7.460000000000001 (actual)
Steering angle: 2.6085312062979096 (pred) 7.06 (actual)
Steering angle: 2.6085312062979096 (pred) 6.45 (actual)
Steering angle: 2.6085312062979096 (pred) 6.150000000000001 (actual)
Steering angle: 2.6085312062979096 (pred) 5.75 (actual)
Steering angle: 2.6085312062979096 (pred) 5.139999999999999 (actual)
Steering angle: 2.6085312062979096 (pred) 4.84 (actual)
Steering angle: 2.6085312062979096 (pred) 4.64 (actual)
Steering angle: 2.6085312062979096 (pred) 4.64 (actual)
Steering angle: 2.6085312062979096 (pred) 4.44 (actual)
Steering angle: 2.6085312062979096 (pred) 4.13 (actual)
Steering angle: 2.6085312062979096 (pred) 4.03 (actual)
Steering angle: 2.6085312062979096 (pred) 3.7300000000000004 (actual)
Steering angle: 2.6085312062979096 (pred) 3.13 (actual)
Steering angle: 2.6085312062979096 (pred) 2.7200000000000006 (actual)
Steering angle: 2.6085312062979096 (pred) 2.22 (actual)
Steering angle: 2.6085312062979096 (pred) 1.71 (actual)
Steering angle: 2.6085312062979096 (pred) 1.41 (actual)
Steering angle: 2.6085312062979096 (pred) 1.21 (actual)
Steering angle: 2.6085312062979096 (pred) 1.21 (actual)
Steering angle: 2.6085312062979096 (pred) 1.21 (actual)
Steering angle: 2.6085312062979096 (pred) 0.0 (actual)
Steering angle: 2.6085312062979096 (pred) 0.91 (actual)
Steering angle: 2.6085312062979096 (pred) 0.61 (actual)
Steering angle: 2.6085312062979096 (pred) 0.4 (actual)
Steering angle: 2.6085312062979096 (pred) 0.4 (actual)
Steering angle: 2.6085312062979096 (pred) 0.4 (actual)
Steering angle: 2.6085312062979096 (pred) 1.41 (actual)
Steering angle: 2.6085312062979096 (pred) 2.32 (actual)
Steering angle: 2.6085312062979096 (pred) 3.23 (actual)
Steering angle: 2.6085312062979096 (pred) 3.9300000000000006 (actual)
Steering angle: 2.6085312062979096 (pred) 4.13 (actual)
Steering angle: 2.6085312062979096 (pred) 4.24 (actual)
Steering angle: 2.6085312062979096 (pred) 4.24 (actual)
Steering angle: 2.6085312062979096 (pred) 4.24 (actual)
Steering angle: 2.6085312062979096 (pred) 4.24 (actual)
Steering angle: 2.6085312062979096 (pred) 4.24 (actual)
Steering angle: 2.6085312062979096 (pred) 3.7300000000000004 (actual)
Steering angle: 2.6085312062979096 (pred) 3.23 (actual)
Steering angle: 2.6085312062979096 (pred) 2.52 (actual)
Steering angle: 2.6085312062979096 (pred) 2.12 (actual)
Steering angle: 2.6085312062979096 (pred) 1.71 (actual)
Steering angle: 2.6085312062979096 (pred) 1.21 (actual)
Steering angle: 2.6085312062979096 (pred) 0.71 (actual)
Steering angle: 2.6085312062979096 (pred) 0.0 (actual)
Steering angle: 2.6085312062979096 (pred) -0.3 (actual)
Steering angle: 2.6085312062979096 (pred) -0.61 (actual)
Steering angle: 2.6085312062979096 (pred) -0.61 (actual)
Steering angle: 2.6085312062979096 (pred) 0.0 (actual)
Steering angle: 2.6085312062979096 (pred) 0.0 (actual)
Steering angle: 2.6085312062979096 (pred) -0.61 (actual)
Steering angle: 2.6085312062979096 (pred) -0.61 (actual)
Steering angle: 2.6085312062979096 (pred) -0.2 (actual)
Steering angle: 2.6085312062979096 (pred) 0.1 (actual)
Steering angle: 2.6085312062979096 (pred) 0.4 (actual)

```

In [6]:

```

from IPython.display import Image
from IPython.display import display
display(Image(url='alphale-3.gif'))

```

MY ANGLE IS CONSTANT so steering is not moving

TRY WITH (Adam optimizer 1e-4 , dropout = 0.5 , layer = LINEAR)

In [0]:

```
LOGDIR = './save1'

sess = tf.InteractiveSession()

L2NormConst = 0.001

train_vars = tf.trainable_variables()

loss = tf.reduce_mean(tf.square(tf.subtract(model.y_, model.y))) + tf.add_n([tf.nn.l2_loss(v) for v
in train_vars]) * L2NormConst
train_step = tf.train.AdamOptimizer(1e-4).minimize(loss)
sess.run(tf.initialize_all_variables())

# create a summary to monitor cost tensor
tf.summary.scalar("loss", loss)
# merge all summaries into a single op
merged_summary_op = tf.summary.merge_all()

saver = tf.train.Saver(write_version = saver_pb2.SaverDef.V1)

# op to write logs to Tensorboard
logs_path = './log1'
summary_writer = tf.summary.FileWriter(logs_path, graph=tf.get_default_graph())

epochs = 30
batch_size = 100

# train over the dataset about 30 times
for epoch in range(epochs):
    for i in range(int(driving_data.num_images/batch_size)):
        xs, ys = driving_data.LoadTrainBatch(batch_size)
        train_step.run(feed_dict={model.x: xs, model.y_: ys, model.keep_prob: 0.5})
        if i % 10 == 0:
            xs, ys = driving_data.LoadValBatch(batch_size)
            loss_value = loss.eval(feed_dict={model.x:xs, model.y_: ys, model.keep_prob: 1})
            print("Epoch: %d, Step: %d, Loss: %g" % (epoch, epoch * batch_size + i, loss_value))

    # write logs at every iteration
    summary = merged_summary_op.eval(feed_dict={model.x:xs, model.y_: ys, model.keep_prob: 1})
    summary_writer.add_summary(summary, epoch * driving_data.num_images/batch_size + i)

    if i % batch_size == 0:
        if not os.path.exists(LOGDIR):
            os.makedirs(LOGDIR)
        checkpoint_path = os.path.join(LOGDIR, "model.ckpt")
        filename = saver.save(sess, checkpoint_path)
        print("Model saved in file: %s" % filename)

print("Run the command line:\n" \
      "--> tensorboard --logdir=./logs " \
      "\nThen open http://0.0.0.0:6006/ into your web browser")
```

WARNING:tensorflow:From C:\Users\aman\Anaconda3\lib\site-packages\tensorflow_core\python\util\tf_should_use.py:198: initialize_all_variables (from tensorflow.python.ops.variables) is deprecated and will be removed after 2017-03-02.

Instructions for updating:

Use `tf.global_variables_initializer` instead.

Epoch: 0, Step: 0, Loss: 13.5802

WARNING:tensorflow:*****

WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.

WARNING:tensorflow:Consider switching to the more efficient V2 format:

WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`

WARNING:tensorflow:now on by default.

WARNING:tensorflow:*****

Epoch: 0, Step: 10, Loss: 12.7876

Epoch: 0, Step: 20, Loss: 12.1316

Epoch: 0, Step: 30, Loss: 11.8634

```
Epoch: 0, Step: 40, Loss: 11.6746
Epoch: 0, Step: 50, Loss: 11.581
Epoch: 0, Step: 60, Loss: 11.6059
Epoch: 0, Step: 70, Loss: 12.3632
Epoch: 0, Step: 80, Loss: 12.9511
Epoch: 0, Step: 90, Loss: 11.2428
Epoch: 0, Step: 100, Loss: 10.8294
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 0, Step: 110, Loss: 10.6778
Epoch: 0, Step: 120, Loss: 10.5679
Epoch: 0, Step: 130, Loss: 10.4186
Epoch: 0, Step: 140, Loss: 10.3037
Epoch: 0, Step: 150, Loss: 10.2497
Epoch: 0, Step: 160, Loss: 10.1097
Epoch: 0, Step: 170, Loss: 9.91216
Epoch: 0, Step: 180, Loss: 9.7896
Epoch: 0, Step: 190, Loss: 9.96364
Epoch: 0, Step: 200, Loss: 9.52977
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 0, Step: 210, Loss: 9.48326
Epoch: 0, Step: 220, Loss: 9.26667
Epoch: 0, Step: 230, Loss: 9.15101
Epoch: 0, Step: 240, Loss: 9.03841
Epoch: 0, Step: 250, Loss: 8.92778
Epoch: 0, Step: 260, Loss: 8.81748
Epoch: 0, Step: 270, Loss: 13.9315
Epoch: 0, Step: 280, Loss: 9.57156
Epoch: 0, Step: 290, Loss: 8.50886
Epoch: 0, Step: 300, Loss: 8.40623
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 0, Step: 310, Loss: 8.30258
Epoch: 0, Step: 320, Loss: 8.20505
Epoch: 0, Step: 330, Loss: 8.11437
Epoch: 0, Step: 340, Loss: 8.04392
Epoch: 0, Step: 350, Loss: 7.94577
Epoch: 0, Step: 360, Loss: 7.85722
Epoch: 0, Step: 370, Loss: 7.77377
Epoch: 0, Step: 380, Loss: 7.68774
Epoch: 0, Step: 390, Loss: 7.57116
Epoch: 0, Step: 400, Loss: 7.48188
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 0, Step: 410, Loss: 7.40156
Epoch: 0, Step: 420, Loss: 7.34625
Epoch: 0, Step: 430, Loss: 7.25094
Epoch: 0, Step: 440, Loss: 7.18451
Epoch: 0, Step: 450, Loss: 7.09591
Model saved in file: ./save1\model.ckpt
Epoch: 1, Step: 100, Loss: 7.06247
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 110, Loss: 6.99407
Epoch: 1, Step: 120, Loss: 6.90486
Epoch: 1, Step: 130, Loss: 6.83242
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Epoch: 1, Step: 140, Loss: 6.76917
Epoch: 1, Step: 150, Loss: 6.6884
Epoch: 1, Step: 160, Loss: 6.61631
Epoch: 1, Step: 170, Loss: 6.54381
Epoch: 1, Step: 180, Loss: 6.47237
Epoch: 1, Step: 190, Loss: 6.40168
Epoch: 1, Step: 200, Loss: 6.34214
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 210, Loss: 6.32834
Epoch: 1, Step: 220, Loss: 6.56476
Epoch: 1, Step: 230, Loss: 11.798
Epoch: 1, Step: 240, Loss: 6.09181
Epoch: 1, Step: 250, Loss: 5.99864
Epoch: 1, Step: 260, Loss: 5.93497
Epoch: 1, Step: 270, Loss: 5.88488
Epoch: 1, Step: 280, Loss: 5.81926
Epoch: 1, Step: 290, Loss: 5.75921
Epoch: 1, Step: 300, Loss: 5.9002
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 310, Loss: 5.70216
Epoch: 1, Step: 320, Loss: 5.57382
Epoch: 1, Step: 330, Loss: 5.59968
Epoch: 1, Step: 340, Loss: 5.45089
Epoch: 1, Step: 350, Loss: 5.44196
Epoch: 1, Step: 360, Loss: 5.3645
Epoch: 1, Step: 370, Loss: 5.34023
Epoch: 1, Step: 380, Loss: 5.33302
Epoch: 1, Step: 390, Loss: 5.42351
Epoch: 1, Step: 400, Loss: 5.22684
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 410, Loss: 5.08751
Epoch: 1, Step: 420, Loss: 5.0325
Epoch: 1, Step: 430, Loss: 4.98339
Epoch: 1, Step: 440, Loss: 4.93561
Epoch: 1, Step: 450, Loss: 4.88829
Epoch: 1, Step: 460, Loss: 4.84163
Epoch: 1, Step: 470, Loss: 4.79586
Epoch: 1, Step: 480, Loss: 4.75315
Epoch: 1, Step: 490, Loss: 4.70836
Epoch: 1, Step: 500, Loss: 4.66656
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 1, Step: 510, Loss: 4.6323
Epoch: 1, Step: 520, Loss: 4.57988
Epoch: 1, Step: 530, Loss: 4.56726
Epoch: 1, Step: 540, Loss: 4.50569
Epoch: 1, Step: 550, Loss: 4.74494
Model saved in file: ./save1\model.ckpt
Epoch: 2, Step: 200, Loss: 4.91737
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 210, Loss: 4.54054
Epoch: 2, Step: 220, Loss: 4.37582
Epoch: 2, Step: 230, Loss: 4.32462
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Epoch: 2, Step: 240, Loss: 4.32314
Epoch: 2, Step: 250, Loss: 4.44168
Epoch: 2, Step: 260, Loss: 5.46324
Epoch: 2, Step: 270, Loss: 5.71274
Epoch: 2, Step: 280, Loss: 4.21419
Epoch: 2, Step: 290, Loss: 4.14898
Epoch: 2, Step: 300, Loss: 4.05439
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 310, Loss: 4.03825
Epoch: 2, Step: 320, Loss: 3.99067
Epoch: 2, Step: 330, Loss: 3.98947
Epoch: 2, Step: 340, Loss: 4.00701
Epoch: 2, Step: 350, Loss: 3.9333
Epoch: 2, Step: 360, Loss: 3.86274
Epoch: 2, Step: 370, Loss: 3.88038
Epoch: 2, Step: 380, Loss: 4.149
Epoch: 2, Step: 390, Loss: 3.83451
Epoch: 2, Step: 400, Loss: 3.78371
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 410, Loss: 3.6822
Epoch: 2, Step: 420, Loss: 3.65163
Epoch: 2, Step: 430, Loss: 3.62137
Epoch: 2, Step: 440, Loss: 3.5921
Epoch: 2, Step: 450, Loss: 3.63695
Epoch: 2, Step: 460, Loss: 9.33393
Epoch: 2, Step: 470, Loss: 3.75745
Epoch: 2, Step: 480, Loss: 3.48735
Epoch: 2, Step: 490, Loss: 3.45333
Epoch: 2, Step: 500, Loss: 3.42052
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 510, Loss: 3.40121
Epoch: 2, Step: 520, Loss: 3.37037
Epoch: 2, Step: 530, Loss: 3.36466
Epoch: 2, Step: 540, Loss: 3.32916
Epoch: 2, Step: 550, Loss: 3.29991
Epoch: 2, Step: 560, Loss: 3.27694
Epoch: 2, Step: 570, Loss: 3.25518
Epoch: 2, Step: 580, Loss: 3.21712
Epoch: 2, Step: 590, Loss: 3.19893
Epoch: 2, Step: 600, Loss: 3.17363
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 2, Step: 610, Loss: 3.15394
Epoch: 2, Step: 620, Loss: 3.12234
Epoch: 2, Step: 630, Loss: 3.10632
Epoch: 2, Step: 640, Loss: 3.07692
Epoch: 2, Step: 650, Loss: 3.051
Model saved in file: ./save1\model.ckpt
Epoch: 3, Step: 300, Loss: 3.0479
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 310, Loss: 3.02084
Epoch: 3, Step: 320, Loss: 3.00651
Epoch: 3, Step: 330, Loss: 2.98652
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Epoch: 3, Step: 340, Loss: 2.96149
Epoch: 3, Step: 350, Loss: 2.93566
Epoch: 3, Step: 360, Loss: 2.91364
Epoch: 3, Step: 370, Loss: 2.89052
Epoch: 3, Step: 380, Loss: 2.87552
Epoch: 3, Step: 390, Loss: 2.8711
Epoch: 3, Step: 400, Loss: 2.89977
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 410, Loss: 4.50304
Epoch: 3, Step: 420, Loss: 7.14058
Epoch: 3, Step: 430, Loss: 2.79555
Epoch: 3, Step: 440, Loss: 2.76643
Epoch: 3, Step: 450, Loss: 2.7433
Epoch: 3, Step: 460, Loss: 2.72567
Epoch: 3, Step: 470, Loss: 2.7117
Epoch: 3, Step: 480, Loss: 2.73619
Epoch: 3, Step: 490, Loss: 2.88892
Epoch: 3, Step: 500, Loss: 2.67347
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 510, Loss: 2.64876
Epoch: 3, Step: 520, Loss: 2.67425
Epoch: 3, Step: 530, Loss: 2.59449
Epoch: 3, Step: 540, Loss: 2.6066
Epoch: 3, Step: 550, Loss: 2.59148
Epoch: 3, Step: 560, Loss: 2.59884
Epoch: 3, Step: 570, Loss: 2.63617
Epoch: 3, Step: 580, Loss: 2.68041
Epoch: 3, Step: 590, Loss: 2.5198
Epoch: 3, Step: 600, Loss: 2.48398
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 610, Loss: 2.45854
Epoch: 3, Step: 620, Loss: 2.44201
Epoch: 3, Step: 630, Loss: 2.42767
Epoch: 3, Step: 640, Loss: 2.41291
Epoch: 3, Step: 650, Loss: 2.40024
Epoch: 3, Step: 660, Loss: 2.38796
Epoch: 3, Step: 670, Loss: 2.37561
Epoch: 3, Step: 680, Loss: 2.3522
Epoch: 3, Step: 690, Loss: 2.33961
Epoch: 3, Step: 700, Loss: 2.33785
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 3, Step: 710, Loss: 2.31426
Epoch: 3, Step: 720, Loss: 2.34148
Epoch: 3, Step: 730, Loss: 2.29636
Epoch: 3, Step: 740, Loss: 2.68586
Epoch: 3, Step: 750, Loss: 2.69819
Model saved in file: ./save1\model.ckpt
Epoch: 4, Step: 400, Loss: 2.38878
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 410, Loss: 2.25154
Epoch: 4, Step: 420, Loss: 2.23425
Epoch: 4, Step: 430, Loss: 2.2735
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Epoch: 4, Step: 440, Loss: 2.4614
Epoch: 4, Step: 450, Loss: 3.60861
Epoch: 4, Step: 460, Loss: 3.33803
Epoch: 4, Step: 470, Loss: 2.20318
Epoch: 4, Step: 480, Loss: 2.1904
Epoch: 4, Step: 490, Loss: 2.14868
Epoch: 4, Step: 500, Loss: 2.14803
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 510, Loss: 2.12765
Epoch: 4, Step: 520, Loss: 2.13069
Epoch: 4, Step: 530, Loss: 2.18984
Epoch: 4, Step: 540, Loss: 2.08623
Epoch: 4, Step: 550, Loss: 2.08961
Epoch: 4, Step: 560, Loss: 2.15918
Epoch: 4, Step: 570, Loss: 2.39719
Epoch: 4, Step: 580, Loss: 2.22571
Epoch: 4, Step: 590, Loss: 2.02625
Epoch: 4, Step: 600, Loss: 2.00892
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 610, Loss: 1.99854
Epoch: 4, Step: 620, Loss: 1.9876
Epoch: 4, Step: 630, Loss: 1.9782
Epoch: 4, Step: 640, Loss: 2.4743
Epoch: 4, Step: 650, Loss: 7.12933
Epoch: 4, Step: 660, Loss: 1.99406
Epoch: 4, Step: 670, Loss: 1.94819
Epoch: 4, Step: 680, Loss: 1.92876
Epoch: 4, Step: 690, Loss: 1.91663
Epoch: 4, Step: 700, Loss: 1.91243
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 710, Loss: 1.89957
Epoch: 4, Step: 720, Loss: 1.90807
Epoch: 4, Step: 730, Loss: 1.88893
Epoch: 4, Step: 740, Loss: 1.88673
Epoch: 4, Step: 750, Loss: 1.8758
Epoch: 4, Step: 760, Loss: 1.87084
Epoch: 4, Step: 770, Loss: 1.84258
Epoch: 4, Step: 780, Loss: 1.83439
Epoch: 4, Step: 790, Loss: 1.83576
Epoch: 4, Step: 800, Loss: 1.82973
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 4, Step: 810, Loss: 1.81591
Epoch: 4, Step: 820, Loss: 1.80664
Epoch: 4, Step: 830, Loss: 1.79837
Epoch: 4, Step: 840, Loss: 1.78991
Epoch: 4, Step: 850, Loss: 1.78529
Model saved in file: ./save1\model.ckpt
Epoch: 5, Step: 500, Loss: 1.77693
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 510, Loss: 1.77105
Epoch: 5, Step: 520, Loss: 1.75598
Epoch: 5, Step: 530, Loss: 1.74243
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Epoch: 5, Step: 540, Loss: 1.74295
Epoch: 5, Step: 550, Loss: 1.7381
Epoch: 5, Step: 560, Loss: 1.7228
Epoch: 5, Step: 570, Loss: 1.71303
Epoch: 5, Step: 580, Loss: 1.71897
Epoch: 5, Step: 590, Loss: 1.74677
Epoch: 5, Step: 600, Loss: 4.51064
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 610, Loss: 4.62234
Epoch: 5, Step: 620, Loss: 1.66915
Epoch: 5, Step: 630, Loss: 1.65786
Epoch: 5, Step: 640, Loss: 1.68092
Epoch: 5, Step: 650, Loss: 1.66391
Epoch: 5, Step: 660, Loss: 1.66153
Epoch: 5, Step: 670, Loss: 1.69072
Epoch: 5, Step: 680, Loss: 1.76636
Epoch: 5, Step: 690, Loss: 1.60959
Epoch: 5, Step: 700, Loss: 1.60531
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 710, Loss: 1.62557
Epoch: 5, Step: 720, Loss: 1.6519
Epoch: 5, Step: 730, Loss: 1.59645
Epoch: 5, Step: 740, Loss: 1.61861
Epoch: 5, Step: 750, Loss: 1.60764
Epoch: 5, Step: 760, Loss: 1.63329
Epoch: 5, Step: 770, Loss: 1.56644
Epoch: 5, Step: 780, Loss: 1.58153
Epoch: 5, Step: 790, Loss: 1.53606
Epoch: 5, Step: 800, Loss: 1.52669
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 810, Loss: 1.51924
Epoch: 5, Step: 820, Loss: 1.51225
Epoch: 5, Step: 830, Loss: 1.50562
Epoch: 5, Step: 840, Loss: 1.49812
Epoch: 5, Step: 850, Loss: 1.49181
Epoch: 5, Step: 860, Loss: 1.4895
Epoch: 5, Step: 870, Loss: 1.47959
Epoch: 5, Step: 880, Loss: 1.47468
Epoch: 5, Step: 890, Loss: 1.48009
Epoch: 5, Step: 900, Loss: 1.46595
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 5, Step: 910, Loss: 1.48383
Epoch: 5, Step: 920, Loss: 1.47947
Epoch: 5, Step: 930, Loss: 1.90726
Epoch: 5, Step: 940, Loss: 1.86787
Epoch: 5, Step: 950, Loss: 1.54231
Model saved in file: ./save1\model.ckpt
Epoch: 6, Step: 600, Loss: 1.44462
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 610, Loss: 1.43039
Epoch: 6, Step: 620, Loss: 1.47849
Epoch: 6, Step: 630, Loss: 1.78588
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Epoch: 5, Step: 600, Loss: 1.70000
Epoch: 6, Step: 640, Loss: 2.82134
Epoch: 6, Step: 650, Loss: 2.13269
Epoch: 6, Step: 660, Loss: 1.44104
Epoch: 6, Step: 670, Loss: 1.4018
Epoch: 6, Step: 680, Loss: 1.38127
Epoch: 6, Step: 690, Loss: 1.37749
Epoch: 6, Step: 700, Loss: 1.37429
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 710, Loss: 1.36389
Epoch: 6, Step: 720, Loss: 1.43386
Epoch: 6, Step: 730, Loss: 1.35984
Epoch: 6, Step: 740, Loss: 1.41415
Epoch: 6, Step: 750, Loss: 1.46055
Epoch: 6, Step: 760, Loss: 1.74853
Epoch: 6, Step: 770, Loss: 1.73611
Epoch: 6, Step: 780, Loss: 1.3152
Epoch: 6, Step: 790, Loss: 1.3058
Epoch: 6, Step: 800, Loss: 1.30073
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 810, Loss: 1.2949
Epoch: 6, Step: 820, Loss: 1.28964
Epoch: 6, Step: 830, Loss: 2.99377
Epoch: 6, Step: 840, Loss: 5.64046
Epoch: 6, Step: 850, Loss: 1.28967
Epoch: 6, Step: 860, Loss: 1.27546
Epoch: 6, Step: 870, Loss: 1.26455
Epoch: 6, Step: 880, Loss: 1.25558
Epoch: 6, Step: 890, Loss: 1.25798
Epoch: 6, Step: 900, Loss: 1.25323
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 910, Loss: 1.26016
Epoch: 6, Step: 920, Loss: 1.25366
Epoch: 6, Step: 930, Loss: 1.24941
Epoch: 6, Step: 940, Loss: 1.23568
Epoch: 6, Step: 950, Loss: 1.2329
Epoch: 6, Step: 960, Loss: 1.22441
Epoch: 6, Step: 970, Loss: 1.21887
Epoch: 6, Step: 980, Loss: 1.21546
Epoch: 6, Step: 990, Loss: 1.20449
Epoch: 6, Step: 1000, Loss: 1.20069
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 6, Step: 1010, Loss: 1.19219
Epoch: 6, Step: 1020, Loss: 1.1915
Epoch: 6, Step: 1030, Loss: 1.18949
Epoch: 6, Step: 1040, Loss: 1.18064
Epoch: 6, Step: 1050, Loss: 1.17882
Model saved in file: ./save1\model.ckpt
Epoch: 7, Step: 700, Loss: 1.18001
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 710, Loss: 1.17075
Epoch: 7, Step: 720, Loss: 1.1663
Epoch: 7, Step: 730, Loss: 1.15543
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Epoch: 7, Step: 700, Loss: 1.15915
Epoch: 7, Step: 740, Loss: 1.16416
Epoch: 7, Step: 750, Loss: 1.15456
Epoch: 7, Step: 760, Loss: 1.14628
Epoch: 7, Step: 770, Loss: 1.20045
Epoch: 7, Step: 780, Loss: 1.20282
Epoch: 7, Step: 790, Loss: 5.22897
Epoch: 7, Step: 800, Loss: 2.79961
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 810, Loss: 1.12753
Epoch: 7, Step: 820, Loss: 1.12198
Epoch: 7, Step: 830, Loss: 1.11726
Epoch: 7, Step: 840, Loss: 1.12243
Epoch: 7, Step: 850, Loss: 1.10149
Epoch: 7, Step: 860, Loss: 1.22236
Epoch: 7, Step: 870, Loss: 1.25263
Epoch: 7, Step: 880, Loss: 1.0856
Epoch: 7, Step: 890, Loss: 1.14156
Epoch: 7, Step: 900, Loss: 1.08449
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 910, Loss: 1.08277
Epoch: 7, Step: 920, Loss: 1.068
Epoch: 7, Step: 930, Loss: 1.11596
Epoch: 7, Step: 940, Loss: 1.08605
Epoch: 7, Step: 950, Loss: 1.19339
Epoch: 7, Step: 960, Loss: 1.12208
Epoch: 7, Step: 970, Loss: 1.05289
Epoch: 7, Step: 980, Loss: 1.03595
Epoch: 7, Step: 990, Loss: 1.03034
Epoch: 7, Step: 1000, Loss: 1.02505
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 1010, Loss: 1.01995
Epoch: 7, Step: 1020, Loss: 1.01552
Epoch: 7, Step: 1030, Loss: 1.0112
Epoch: 7, Step: 1040, Loss: 1.0058
Epoch: 7, Step: 1050, Loss: 1.08878
Epoch: 7, Step: 1060, Loss: 0.997267
Epoch: 7, Step: 1070, Loss: 0.995229
Epoch: 7, Step: 1080, Loss: 0.999675
Epoch: 7, Step: 1090, Loss: 0.999966
Epoch: 7, Step: 1100, Loss: 1.00475
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 7, Step: 1110, Loss: 1.12286
Epoch: 7, Step: 1120, Loss: 1.41662
Epoch: 7, Step: 1130, Loss: 1.25663
Epoch: 7, Step: 1140, Loss: 1.03213
Epoch: 7, Step: 1150, Loss: 0.966894
Model saved in file: ./save1\model.ckpt
Epoch: 8, Step: 800, Loss: 0.973707
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 810, Loss: 1.06175
Epoch: 8, Step: 820, Loss: 1.58569
Epoch: 8, Step: 830, Loss: 2.63863
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Epoch: 8, Step: 830, Loss: 2.03000
Epoch: 8, Step: 840, Loss: 1.56102
Epoch: 8, Step: 850, Loss: 0.992965
Epoch: 8, Step: 860, Loss: 0.94359
Epoch: 8, Step: 870, Loss: 0.952564
Epoch: 8, Step: 880, Loss: 0.945775
Epoch: 8, Step: 890, Loss: 0.931641
Epoch: 8, Step: 900, Loss: 0.997375
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 910, Loss: 1.01547
Epoch: 8, Step: 920, Loss: 0.923037
Epoch: 8, Step: 930, Loss: 0.965001
Epoch: 8, Step: 940, Loss: 1.14097
Epoch: 8, Step: 950, Loss: 1.0659
Epoch: 8, Step: 960, Loss: 1.10163
Epoch: 8, Step: 970, Loss: 0.887703
Epoch: 8, Step: 980, Loss: 0.882935
Epoch: 8, Step: 990, Loss: 0.878887
Epoch: 8, Step: 1000, Loss: 0.874718
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 1010, Loss: 0.879922
Epoch: 8, Step: 1020, Loss: 3.8526
Epoch: 8, Step: 1030, Loss: 3.48849
Epoch: 8, Step: 1040, Loss: 0.866878
Epoch: 8, Step: 1050, Loss: 0.862008
Epoch: 8, Step: 1060, Loss: 0.853862
Epoch: 8, Step: 1070, Loss: 0.868175
Epoch: 8, Step: 1080, Loss: 0.851941
Epoch: 8, Step: 1090, Loss: 0.856648
Epoch: 8, Step: 1100, Loss: 0.851843
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 1110, Loss: 0.851298
Epoch: 8, Step: 1120, Loss: 0.848296
Epoch: 8, Step: 1130, Loss: 0.841912
Epoch: 8, Step: 1140, Loss: 0.839174
Epoch: 8, Step: 1150, Loss: 0.82916
Epoch: 8, Step: 1160, Loss: 0.843953
Epoch: 8, Step: 1170, Loss: 0.83274
Epoch: 8, Step: 1180, Loss: 0.819946
Epoch: 8, Step: 1190, Loss: 0.823161
Epoch: 8, Step: 1200, Loss: 0.821641
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 8, Step: 1210, Loss: 0.814222
Epoch: 8, Step: 1220, Loss: 0.817325
Epoch: 8, Step: 1230, Loss: 0.801873
Epoch: 8, Step: 1240, Loss: 0.802409
Epoch: 8, Step: 1250, Loss: 0.807621
Model saved in file: ./save1\model.ckpt
Epoch: 9, Step: 900, Loss: 0.798601
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 910, Loss: 0.799785
Epoch: 9, Step: 920, Loss: 0.790787
Epoch: 9, Step: 930, Loss: 0.786453
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Epoch: 9, Step: 930, Loss: 0.789433
Epoch: 9, Step: 940, Loss: 0.789676
Epoch: 9, Step: 950, Loss: 0.782444
Epoch: 9, Step: 960, Loss: 0.835539
Epoch: 9, Step: 970, Loss: 0.788456
Epoch: 9, Step: 980, Loss: 6.17665
Epoch: 9, Step: 990, Loss: 1.28347
Epoch: 9, Step: 1000, Loss: 0.759894
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 1010, Loss: 0.761624
Epoch: 9, Step: 1020, Loss: 0.773506
Epoch: 9, Step: 1030, Loss: 0.774246
Epoch: 9, Step: 1040, Loss: 0.743631
Epoch: 9, Step: 1050, Loss: 0.885152
Epoch: 9, Step: 1060, Loss: 0.81941
Epoch: 9, Step: 1070, Loss: 0.803988
Epoch: 9, Step: 1080, Loss: 1.0521
Epoch: 9, Step: 1090, Loss: 1.16369
Epoch: 9, Step: 1100, Loss: 1.01748
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 1110, Loss: 0.999135
Epoch: 9, Step: 1120, Loss: 0.795968
Epoch: 9, Step: 1130, Loss: 0.747467
Epoch: 9, Step: 1140, Loss: 0.77854
Epoch: 9, Step: 1150, Loss: 0.742019
Epoch: 9, Step: 1160, Loss: 0.84112
Epoch: 9, Step: 1170, Loss: 0.70301
Epoch: 9, Step: 1180, Loss: 0.693674
Epoch: 9, Step: 1190, Loss: 0.690259
Epoch: 9, Step: 1200, Loss: 0.687196
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 1210, Loss: 0.684684
Epoch: 9, Step: 1220, Loss: 0.681847
Epoch: 9, Step: 1230, Loss: 0.678446
Epoch: 9, Step: 1240, Loss: 0.681269
Epoch: 9, Step: 1250, Loss: 0.67708
Epoch: 9, Step: 1260, Loss: 0.676076
Epoch: 9, Step: 1270, Loss: 0.677012
Epoch: 9, Step: 1280, Loss: 0.694288
Epoch: 9, Step: 1290, Loss: 0.677118
Epoch: 9, Step: 1300, Loss: 0.869708
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 9, Step: 1310, Loss: 1.12156
Epoch: 9, Step: 1320, Loss: 0.849162
Epoch: 9, Step: 1330, Loss: 0.704167
Epoch: 9, Step: 1340, Loss: 0.665133
Epoch: 9, Step: 1350, Loss: 0.665404
Model saved in file: ./save1\model.ckpt
Epoch: 10, Step: 1000, Loss: 0.785656
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1010, Loss: 1.43799
Epoch: 10, Step: 1020, Loss: 1.98161
Epoch: 10, Step: 1030, Loss: 0.886350
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Epoch: 10, Step: 1030, Loss: 0.000339
Epoch: 10, Step: 1040, Loss: 0.710988
Epoch: 10, Step: 1050, Loss: 0.665151
Epoch: 10, Step: 1060, Loss: 0.642689
Epoch: 10, Step: 1070, Loss: 0.636414
Epoch: 10, Step: 1080, Loss: 0.65946
Epoch: 10, Step: 1090, Loss: 0.705986
Epoch: 10, Step: 1100, Loss: 0.827987
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1110, Loss: 0.68508
Epoch: 10, Step: 1120, Loss: 0.827686
Epoch: 10, Step: 1130, Loss: 1.0264
Epoch: 10, Step: 1140, Loss: 0.917971
Epoch: 10, Step: 1150, Loss: 0.900692
Epoch: 10, Step: 1160, Loss: 0.626948
Epoch: 10, Step: 1170, Loss: 0.603188
Epoch: 10, Step: 1180, Loss: 0.593294
Epoch: 10, Step: 1190, Loss: 0.590852
Epoch: 10, Step: 1200, Loss: 0.590703
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1210, Loss: 5.17862
Epoch: 10, Step: 1220, Loss: 1.8199
Epoch: 10, Step: 1230, Loss: 0.587446
Epoch: 10, Step: 1240, Loss: 0.582569
Epoch: 10, Step: 1250, Loss: 0.576648
Epoch: 10, Step: 1260, Loss: 0.574825
Epoch: 10, Step: 1270, Loss: 0.576825
Epoch: 10, Step: 1280, Loss: 0.588295
Epoch: 10, Step: 1290, Loss: 0.580863
Epoch: 10, Step: 1300, Loss: 0.581614
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1310, Loss: 0.581631
Epoch: 10, Step: 1320, Loss: 0.580331
Epoch: 10, Step: 1330, Loss: 0.563864
Epoch: 10, Step: 1340, Loss: 0.565937
Epoch: 10, Step: 1350, Loss: 0.560402
Epoch: 10, Step: 1360, Loss: 0.565318
Epoch: 10, Step: 1370, Loss: 0.554757
Epoch: 10, Step: 1380, Loss: 0.560651
Epoch: 10, Step: 1390, Loss: 0.552944
Epoch: 10, Step: 1400, Loss: 0.549286
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 10, Step: 1410, Loss: 0.552952
Epoch: 10, Step: 1420, Loss: 0.540377
Epoch: 10, Step: 1430, Loss: 0.541532
Epoch: 10, Step: 1440, Loss: 0.544471
Epoch: 10, Step: 1450, Loss: 0.540336
Model saved in file: ./save1\model.ckpt
Epoch: 11, Step: 1100, Loss: 0.532001
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1110, Loss: 0.576888
Epoch: 11, Step: 1120, Loss: 0.599056
Epoch: 11, Step: 1130, Loss: 0.562045
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Epoch: 11, Step: 1130, Loss: 0.563945
Epoch: 11, Step: 1140, Loss: 0.529125
Epoch: 11, Step: 1150, Loss: 0.703973
Epoch: 11, Step: 1160, Loss: 0.705996
Epoch: 11, Step: 1170, Loss: 5.9011
Epoch: 11, Step: 1180, Loss: 0.537981
Epoch: 11, Step: 1190, Loss: 0.543084
Epoch: 11, Step: 1200, Loss: 0.523304
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1210, Loss: 0.529833
Epoch: 11, Step: 1220, Loss: 0.528861
Epoch: 11, Step: 1230, Loss: 0.511594
Epoch: 11, Step: 1240, Loss: 0.694317
Epoch: 11, Step: 1250, Loss: 0.580135
Epoch: 11, Step: 1260, Loss: 0.499943
Epoch: 11, Step: 1270, Loss: 0.587949
Epoch: 11, Step: 1280, Loss: 0.490773
Epoch: 11, Step: 1290, Loss: 0.531254
Epoch: 11, Step: 1300, Loss: 0.508518
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1310, Loss: 0.557343
Epoch: 11, Step: 1320, Loss: 0.555235
Epoch: 11, Step: 1330, Loss: 0.686378
Epoch: 11, Step: 1340, Loss: 0.5665
Epoch: 11, Step: 1350, Loss: 0.483828
Epoch: 11, Step: 1360, Loss: 0.476038
Epoch: 11, Step: 1370, Loss: 0.472806
Epoch: 11, Step: 1380, Loss: 0.471255
Epoch: 11, Step: 1390, Loss: 0.469034
Epoch: 11, Step: 1400, Loss: 0.467733
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1410, Loss: 0.465172
Epoch: 11, Step: 1420, Loss: 0.465999
Epoch: 11, Step: 1430, Loss: 0.46483
Epoch: 11, Step: 1440, Loss: 0.467502
Epoch: 11, Step: 1450, Loss: 0.458938
Epoch: 11, Step: 1460, Loss: 0.459135
Epoch: 11, Step: 1470, Loss: 0.490694
Epoch: 11, Step: 1480, Loss: 0.464622
Epoch: 11, Step: 1490, Loss: 0.721431
Epoch: 11, Step: 1500, Loss: 0.932164
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 11, Step: 1510, Loss: 0.779488
Epoch: 11, Step: 1520, Loss: 0.510681
Epoch: 11, Step: 1530, Loss: 0.453795
Epoch: 11, Step: 1540, Loss: 0.468441
Epoch: 11, Step: 1550, Loss: 0.506602
Model saved in file: ./save1\model.ckpt
Epoch: 12, Step: 1200, Loss: 0.473827
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1210, Loss: 0.461632
Epoch: 12, Step: 1220, Loss: 0.559961
Epoch: 12, Step: 1230, Loss: 0.467331
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Epoch: 12, Step: 1230, Loss: 0.497321
Epoch: 12, Step: 1240, Loss: 0.437069
Epoch: 12, Step: 1250, Loss: 0.455008
Epoch: 12, Step: 1260, Loss: 0.441108
Epoch: 12, Step: 1270, Loss: 0.466817
Epoch: 12, Step: 1280, Loss: 0.516787
Epoch: 12, Step: 1290, Loss: 0.487547
Epoch: 12, Step: 1300, Loss: 0.443319
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1310, Loss: 0.486759
Epoch: 12, Step: 1320, Loss: 0.783467
Epoch: 12, Step: 1330, Loss: 0.474916
Epoch: 12, Step: 1340, Loss: 0.511084
Epoch: 12, Step: 1350, Loss: 0.409939
Epoch: 12, Step: 1360, Loss: 0.408134
Epoch: 12, Step: 1370, Loss: 0.406507
Epoch: 12, Step: 1380, Loss: 0.40483
Epoch: 12, Step: 1390, Loss: 0.434331
Epoch: 12, Step: 1400, Loss: 6.00058
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1410, Loss: 0.707802
Epoch: 12, Step: 1420, Loss: 0.405411
Epoch: 12, Step: 1430, Loss: 0.398568
Epoch: 12, Step: 1440, Loss: 0.395327
Epoch: 12, Step: 1450, Loss: 0.398696
Epoch: 12, Step: 1460, Loss: 0.393343
Epoch: 12, Step: 1470, Loss: 0.405832
Epoch: 12, Step: 1480, Loss: 0.402102
Epoch: 12, Step: 1490, Loss: 0.400563
Epoch: 12, Step: 1500, Loss: 0.40215
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1510, Loss: 0.405034
Epoch: 12, Step: 1520, Loss: 0.388585
Epoch: 12, Step: 1530, Loss: 0.398686
Epoch: 12, Step: 1540, Loss: 0.396438
Epoch: 12, Step: 1550, Loss: 0.39102
Epoch: 12, Step: 1560, Loss: 0.385109
Epoch: 12, Step: 1570, Loss: 0.39091
Epoch: 12, Step: 1580, Loss: 0.472293
Epoch: 12, Step: 1590, Loss: 0.383491
Epoch: 12, Step: 1600, Loss: 0.390198
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 12, Step: 1610, Loss: 0.380584
Epoch: 12, Step: 1620, Loss: 0.382867
Epoch: 12, Step: 1630, Loss: 0.385662
Epoch: 12, Step: 1640, Loss: 0.380984
Epoch: 12, Step: 1650, Loss: 0.37825
Model saved in file: ./save1\model.ckpt
Epoch: 13, Step: 1300, Loss: 0.380328
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1310, Loss: 0.376358
Epoch: 13, Step: 1320, Loss: 0.37612
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Epoch: 13, Step: 1330, Loss: 0.384534
Epoch: 13, Step: 1340, Loss: 0.428056
Epoch: 13, Step: 1350, Loss: 1.62163
Epoch: 13, Step: 1360, Loss: 5.03213
Epoch: 13, Step: 1370, Loss: 0.383009
Epoch: 13, Step: 1380, Loss: 0.366335
Epoch: 13, Step: 1390, Loss: 0.372947
Epoch: 13, Step: 1400, Loss: 0.377716
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1410, Loss: 0.379627
Epoch: 13, Step: 1420, Loss: 0.385111
Epoch: 13, Step: 1430, Loss: 0.548365
Epoch: 13, Step: 1440, Loss: 0.382937
Epoch: 13, Step: 1450, Loss: 0.35994
Epoch: 13, Step: 1460, Loss: 0.406735
Epoch: 13, Step: 1470, Loss: 0.373343
Epoch: 13, Step: 1480, Loss: 0.381231
Epoch: 13, Step: 1490, Loss: 0.37878
Epoch: 13, Step: 1500, Loss: 0.407781
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1510, Loss: 0.404299
Epoch: 13, Step: 1520, Loss: 0.367727
Epoch: 13, Step: 1530, Loss: 0.645222
Epoch: 13, Step: 1540, Loss: 0.706029
Epoch: 13, Step: 1550, Loss: 0.33523
Epoch: 13, Step: 1560, Loss: 0.332312
Epoch: 13, Step: 1570, Loss: 0.331216
Epoch: 13, Step: 1580, Loss: 0.330105
Epoch: 13, Step: 1590, Loss: 0.328902
Epoch: 13, Step: 1600, Loss: 0.327896
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1610, Loss: 0.332829
Epoch: 13, Step: 1620, Loss: 0.327657
Epoch: 13, Step: 1630, Loss: 0.330245
Epoch: 13, Step: 1640, Loss: 0.332732
Epoch: 13, Step: 1650, Loss: 0.327753
Epoch: 13, Step: 1660, Loss: 0.36387
Epoch: 13, Step: 1670, Loss: 0.329059
Epoch: 13, Step: 1680, Loss: 0.676602
Epoch: 13, Step: 1690, Loss: 0.776581
Epoch: 13, Step: 1700, Loss: 0.436885
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 13, Step: 1710, Loss: 0.326797
Epoch: 13, Step: 1720, Loss: 0.32814
Epoch: 13, Step: 1730, Loss: 0.360375
Epoch: 13, Step: 1740, Loss: 0.465294
Epoch: 13, Step: 1750, Loss: 0.414555
Model saved in file: ./save1\model.ckpt
Epoch: 14, Step: 1400, Loss: 0.54625
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1410, Loss: 0.351336
Epoch: 14, Step: 1420, Loss: 0.387739
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Epoch: 14, Step: 1430, Loss: 0.313685
Epoch: 14, Step: 1440, Loss: 0.314544
Epoch: 14, Step: 1450, Loss: 0.313315
Epoch: 14, Step: 1460, Loss: 0.334606
Epoch: 14, Step: 1470, Loss: 0.386398
Epoch: 14, Step: 1480, Loss: 0.313336
Epoch: 14, Step: 1490, Loss: 0.325032
Epoch: 14, Step: 1500, Loss: 0.43214
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1510, Loss: 0.685064
Epoch: 14, Step: 1520, Loss: 0.646295
Epoch: 14, Step: 1530, Loss: 0.345147
Epoch: 14, Step: 1540, Loss: 0.344155
Epoch: 14, Step: 1550, Loss: 0.34887
Epoch: 14, Step: 1560, Loss: 0.349535
Epoch: 14, Step: 1570, Loss: 0.321039
Epoch: 14, Step: 1580, Loss: 0.512083
Epoch: 14, Step: 1590, Loss: 5.27374
Epoch: 14, Step: 1600, Loss: 0.382214
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1610, Loss: 0.298945
Epoch: 14, Step: 1620, Loss: 0.288963
Epoch: 14, Step: 1630, Loss: 0.285906
Epoch: 14, Step: 1640, Loss: 0.291126
Epoch: 14, Step: 1650, Loss: 0.28741
Epoch: 14, Step: 1660, Loss: 0.30336
Epoch: 14, Step: 1670, Loss: 0.298613
Epoch: 14, Step: 1680, Loss: 0.297428
Epoch: 14, Step: 1690, Loss: 0.296371
Epoch: 14, Step: 1700, Loss: 0.297962
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1710, Loss: 0.286186
Epoch: 14, Step: 1720, Loss: 0.288855
Epoch: 14, Step: 1730, Loss: 0.291152
Epoch: 14, Step: 1740, Loss: 0.289733
Epoch: 14, Step: 1750, Loss: 0.281852
Epoch: 14, Step: 1760, Loss: 0.357806
Epoch: 14, Step: 1770, Loss: 0.293233
Epoch: 14, Step: 1780, Loss: 0.285261
Epoch: 14, Step: 1790, Loss: 0.27538
Epoch: 14, Step: 1800, Loss: 0.272719
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 14, Step: 1810, Loss: 0.277359
Epoch: 14, Step: 1820, Loss: 0.277798
Epoch: 14, Step: 1830, Loss: 0.276035
Epoch: 14, Step: 1840, Loss: 0.271251
Epoch: 14, Step: 1850, Loss: 0.305506
Model saved in file: ./save1\model.ckpt
Epoch: 15, Step: 1500, Loss: 0.30232
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1510, Loss: 0.286207
Epoch: 15, Step: 1520, Loss: 0.284474
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Epoch: 15, Step: 1530, Loss: 0.38522
Epoch: 15, Step: 1540, Loss: 2.83207
Epoch: 15, Step: 1550, Loss: 2.91105
Epoch: 15, Step: 1560, Loss: 0.343801
Epoch: 15, Step: 1570, Loss: 0.361932
Epoch: 15, Step: 1580, Loss: 0.297175
Epoch: 15, Step: 1590, Loss: 0.284119
Epoch: 15, Step: 1600, Loss: 0.284419
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1610, Loss: 0.336016
Epoch: 15, Step: 1620, Loss: 0.450719
Epoch: 15, Step: 1630, Loss: 0.267319
Epoch: 15, Step: 1640, Loss: 0.288148
Epoch: 15, Step: 1650, Loss: 0.280837
Epoch: 15, Step: 1660, Loss: 0.264803
Epoch: 15, Step: 1670, Loss: 0.283497
Epoch: 15, Step: 1680, Loss: 0.300341
Epoch: 15, Step: 1690, Loss: 0.305121
Epoch: 15, Step: 1700, Loss: 0.394848
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1710, Loss: 0.394853
Epoch: 15, Step: 1720, Loss: 0.256989
Epoch: 15, Step: 1730, Loss: 0.254194
Epoch: 15, Step: 1740, Loss: 0.248528
Epoch: 15, Step: 1750, Loss: 0.246893
Epoch: 15, Step: 1760, Loss: 0.246181
Epoch: 15, Step: 1770, Loss: 0.245986
Epoch: 15, Step: 1780, Loss: 0.244703
Epoch: 15, Step: 1790, Loss: 0.243858
Epoch: 15, Step: 1800, Loss: 0.249787
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1810, Loss: 0.245439
Epoch: 15, Step: 1820, Loss: 0.24579
Epoch: 15, Step: 1830, Loss: 0.250556
Epoch: 15, Step: 1840, Loss: 0.249622
Epoch: 15, Step: 1850, Loss: 0.284101
Epoch: 15, Step: 1860, Loss: 0.31399
Epoch: 15, Step: 1870, Loss: 0.77649
Epoch: 15, Step: 1880, Loss: 0.656735
Epoch: 15, Step: 1890, Loss: 0.399344
Epoch: 15, Step: 1900, Loss: 0.270144
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 15, Step: 1910, Loss: 0.248559
Epoch: 15, Step: 1920, Loss: 0.243384
Epoch: 15, Step: 1930, Loss: 0.274881
Epoch: 15, Step: 1940, Loss: 0.259042
Epoch: 15, Step: 1950, Loss: 0.278899
Model saved in file: ./save1\model.ckpt
Epoch: 16, Step: 1600, Loss: 0.281876
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 1610, Loss: 0.258596
Epoch: 16, Step: 1620, Loss: 0.24902
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Epoch: 16, Step: 1630, Loss: 0.248915
Epoch: 16, Step: 1640, Loss: 0.245051
Epoch: 16, Step: 1650, Loss: 0.299539
Epoch: 16, Step: 1660, Loss: 0.347234
Epoch: 16, Step: 1670, Loss: 0.240884
Epoch: 16, Step: 1680, Loss: 0.269195
Epoch: 16, Step: 1690, Loss: 0.35253
Epoch: 16, Step: 1700, Loss: 0.519305
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 1710, Loss: 0.378797
Epoch: 16, Step: 1720, Loss: 0.232905
Epoch: 16, Step: 1730, Loss: 0.223366
Epoch: 16, Step: 1740, Loss: 0.222717
Epoch: 16, Step: 1750, Loss: 0.221894
Epoch: 16, Step: 1760, Loss: 0.222548
Epoch: 16, Step: 1770, Loss: 1.30362
Epoch: 16, Step: 1780, Loss: 4.68483
Epoch: 16, Step: 1790, Loss: 0.239701
Epoch: 16, Step: 1800, Loss: 0.22484
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 1810, Loss: 0.220177
Epoch: 16, Step: 1820, Loss: 0.219968
Epoch: 16, Step: 1830, Loss: 0.223063
Epoch: 16, Step: 1840, Loss: 0.222476
Epoch: 16, Step: 1850, Loss: 0.229121
Epoch: 16, Step: 1860, Loss: 0.22455
Epoch: 16, Step: 1870, Loss: 0.222179
Epoch: 16, Step: 1880, Loss: 0.222168
Epoch: 16, Step: 1890, Loss: 0.23111
Epoch: 16, Step: 1900, Loss: 0.224159
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 1910, Loss: 0.223107
Epoch: 16, Step: 1920, Loss: 0.227095
Epoch: 16, Step: 1930, Loss: 0.218979
Epoch: 16, Step: 1940, Loss: 0.21487
Epoch: 16, Step: 1950, Loss: 0.240358
Epoch: 16, Step: 1960, Loss: 0.224347
Epoch: 16, Step: 1970, Loss: 0.22445
Epoch: 16, Step: 1980, Loss: 0.2216
Epoch: 16, Step: 1990, Loss: 0.222063
Epoch: 16, Step: 2000, Loss: 0.225827
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 16, Step: 2010, Loss: 0.22124
Epoch: 16, Step: 2020, Loss: 0.224235
Epoch: 16, Step: 2030, Loss: 0.222089
Epoch: 16, Step: 2040, Loss: 0.22291
Epoch: 16, Step: 2050, Loss: 0.220208
Model saved in file: ./save1\model.ckpt
Epoch: 17, Step: 1700, Loss: 0.222428
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 1710, Loss: 0.264498
Epoch: 17, Step: 1720, Loss: 0.24692
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Epoch: 17, Step: 1730, Loss: 3.92809
Epoch: 17, Step: 1740, Loss: 2.45002
Epoch: 17, Step: 1750, Loss: 0.219906
Epoch: 17, Step: 1760, Loss: 0.216421
Epoch: 17, Step: 1770, Loss: 0.22622
Epoch: 17, Step: 1780, Loss: 0.235077
Epoch: 17, Step: 1790, Loss: 0.216484
Epoch: 17, Step: 1800, Loss: 0.312586
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 1810, Loss: 0.359511
Epoch: 17, Step: 1820, Loss: 0.206156
Epoch: 17, Step: 1830, Loss: 0.216123
Epoch: 17, Step: 1840, Loss: 0.207429
Epoch: 17, Step: 1850, Loss: 0.212553
Epoch: 17, Step: 1860, Loss: 0.202198
Epoch: 17, Step: 1870, Loss: 0.263523
Epoch: 17, Step: 1880, Loss: 0.240202
Epoch: 17, Step: 1890, Loss: 0.244306
Epoch: 17, Step: 1900, Loss: 0.491766
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 1910, Loss: 0.560975
Epoch: 17, Step: 1920, Loss: 0.431473
Epoch: 17, Step: 1930, Loss: 0.202247
Epoch: 17, Step: 1940, Loss: 0.203149
Epoch: 17, Step: 1950, Loss: 0.207035
Epoch: 17, Step: 1960, Loss: 0.257146
Epoch: 17, Step: 1970, Loss: 0.194582
Epoch: 17, Step: 1980, Loss: 0.193223
Epoch: 17, Step: 1990, Loss: 0.199231
Epoch: 17, Step: 2000, Loss: 0.195649
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 2010, Loss: 0.196819
Epoch: 17, Step: 2020, Loss: 0.203614
Epoch: 17, Step: 2030, Loss: 0.207226
Epoch: 17, Step: 2040, Loss: 0.222315
Epoch: 17, Step: 2050, Loss: 0.276566
Epoch: 17, Step: 2060, Loss: 0.643973
Epoch: 17, Step: 2070, Loss: 0.505722
Epoch: 17, Step: 2080, Loss: 0.258059
Epoch: 17, Step: 2090, Loss: 0.199641
Epoch: 17, Step: 2100, Loss: 0.207474
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 17, Step: 2110, Loss: 0.309023
Epoch: 17, Step: 2120, Loss: 0.4515
Epoch: 17, Step: 2130, Loss: 0.411685
Epoch: 17, Step: 2140, Loss: 0.283382
Epoch: 17, Step: 2150, Loss: 0.251027
Model saved in file: ./save1\model.ckpt
Epoch: 18, Step: 1800, Loss: 0.193485
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 1810, Loss: 0.202348
Epoch: 18, Step: 1820, Loss: 0.195224
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Epoch: 18, Step: 1830, Loss: 0.192656
Epoch: 18, Step: 1840, Loss: 0.218139
Epoch: 18, Step: 1850, Loss: 0.233859
Epoch: 18, Step: 1860, Loss: 0.190074
Epoch: 18, Step: 1870, Loss: 0.237576
Epoch: 18, Step: 1880, Loss: 0.382409
Epoch: 18, Step: 1890, Loss: 0.436968
Epoch: 18, Step: 1900, Loss: 0.543085
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 1910, Loss: 0.34366
Epoch: 18, Step: 1920, Loss: 0.293392
Epoch: 18, Step: 1930, Loss: 0.265071
Epoch: 18, Step: 1940, Loss: 0.282302
Epoch: 18, Step: 1950, Loss: 0.251019
Epoch: 18, Step: 1960, Loss: 2.47608
Epoch: 18, Step: 1970, Loss: 2.66009
Epoch: 18, Step: 1980, Loss: 0.186464
Epoch: 18, Step: 1990, Loss: 0.183569
Epoch: 18, Step: 2000, Loss: 0.179538
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 2010, Loss: 0.17724
Epoch: 18, Step: 2020, Loss: 0.183601
Epoch: 18, Step: 2030, Loss: 0.189494
Epoch: 18, Step: 2040, Loss: 0.192006
Epoch: 18, Step: 2050, Loss: 0.196715
Epoch: 18, Step: 2060, Loss: 0.195123
Epoch: 18, Step: 2070, Loss: 0.189559
Epoch: 18, Step: 2080, Loss: 0.190175
Epoch: 18, Step: 2090, Loss: 0.184938
Epoch: 18, Step: 2100, Loss: 0.182745
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 2110, Loss: 0.190078
Epoch: 18, Step: 2120, Loss: 0.182078
Epoch: 18, Step: 2130, Loss: 0.180977
Epoch: 18, Step: 2140, Loss: 0.205383
Epoch: 18, Step: 2150, Loss: 0.182972
Epoch: 18, Step: 2160, Loss: 0.184406
Epoch: 18, Step: 2170, Loss: 0.176542
Epoch: 18, Step: 2180, Loss: 0.176684
Epoch: 18, Step: 2190, Loss: 0.186397
Epoch: 18, Step: 2200, Loss: 0.179703
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 18, Step: 2210, Loss: 0.176579
Epoch: 18, Step: 2220, Loss: 0.172354
Epoch: 18, Step: 2230, Loss: 0.178499
Epoch: 18, Step: 2240, Loss: 0.223803
Epoch: 18, Step: 2250, Loss: 0.257842
Model saved in file: ./save1\model.ckpt
Epoch: 19, Step: 1900, Loss: 0.205461
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 1910, Loss: 0.519558
Epoch: 19, Step: 1920, Loss: 4.63038
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Epoch: 19, Step: 1930, Loss: 0.515658
Epoch: 19, Step: 1940, Loss: 0.373839
Epoch: 19, Step: 1950, Loss: 0.435614
Epoch: 19, Step: 1960, Loss: 0.266178
Epoch: 19, Step: 1970, Loss: 0.200782
Epoch: 19, Step: 1980, Loss: 0.174506
Epoch: 19, Step: 1990, Loss: 0.275379
Epoch: 19, Step: 2000, Loss: 0.255681
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 2010, Loss: 0.173933
Epoch: 19, Step: 2020, Loss: 0.187078
Epoch: 19, Step: 2030, Loss: 0.169955
Epoch: 19, Step: 2040, Loss: 0.205172
Epoch: 19, Step: 2050, Loss: 0.175747
Epoch: 19, Step: 2060, Loss: 0.242234
Epoch: 19, Step: 2070, Loss: 0.201423
Epoch: 19, Step: 2080, Loss: 0.382222
Epoch: 19, Step: 2090, Loss: 0.241744
Epoch: 19, Step: 2100, Loss: 0.209732
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 2110, Loss: 0.19923
Epoch: 19, Step: 2120, Loss: 0.185038
Epoch: 19, Step: 2130, Loss: 0.173078
Epoch: 19, Step: 2140, Loss: 0.174951
Epoch: 19, Step: 2150, Loss: 0.177926
Epoch: 19, Step: 2160, Loss: 0.180376
Epoch: 19, Step: 2170, Loss: 0.177906
Epoch: 19, Step: 2180, Loss: 0.171612
Epoch: 19, Step: 2190, Loss: 0.163359
Epoch: 19, Step: 2200, Loss: 0.16409
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 2210, Loss: 0.170029
Epoch: 19, Step: 2220, Loss: 0.186336
Epoch: 19, Step: 2230, Loss: 0.188643
Epoch: 19, Step: 2240, Loss: 0.377874
Epoch: 19, Step: 2250, Loss: 0.679699
Epoch: 19, Step: 2260, Loss: 0.441407
Epoch: 19, Step: 2270, Loss: 0.234137
Epoch: 19, Step: 2280, Loss: 0.181677
Epoch: 19, Step: 2290, Loss: 0.165753
Epoch: 19, Step: 2300, Loss: 0.168256
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 19, Step: 2310, Loss: 0.24629
Epoch: 19, Step: 2320, Loss: 0.177716
Epoch: 19, Step: 2330, Loss: 0.211261
Epoch: 19, Step: 2340, Loss: 0.223485
Epoch: 19, Step: 2350, Loss: 0.160232
Model saved in file: ./save1\model.ckpt
Epoch: 20, Step: 2000, Loss: 0.172388
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2010, Loss: 0.17192
Epoch: 20, Step: 2020, Loss: 0.179534
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Epoch: 20, Step: 2030, Loss: 0.248331
Epoch: 20, Step: 2040, Loss: 0.249797
Epoch: 20, Step: 2050, Loss: 0.184256
Epoch: 20, Step: 2060, Loss: 0.216849
Epoch: 20, Step: 2070, Loss: 0.489048
Epoch: 20, Step: 2080, Loss: 0.205938
Epoch: 20, Step: 2090, Loss: 0.279731
Epoch: 20, Step: 2100, Loss: 0.151737
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2110, Loss: 0.150944
Epoch: 20, Step: 2120, Loss: 0.157839
Epoch: 20, Step: 2130, Loss: 0.156914
Epoch: 20, Step: 2140, Loss: 0.15264
Epoch: 20, Step: 2150, Loss: 4.31066
Epoch: 20, Step: 2160, Loss: 1.63858
Epoch: 20, Step: 2170, Loss: 0.165284
Epoch: 20, Step: 2180, Loss: 0.155822
Epoch: 20, Step: 2190, Loss: 0.154098
Epoch: 20, Step: 2200, Loss: 0.158088
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2210, Loss: 0.152886
Epoch: 20, Step: 2220, Loss: 0.152837
Epoch: 20, Step: 2230, Loss: 0.150789
Epoch: 20, Step: 2240, Loss: 0.152372
Epoch: 20, Step: 2250, Loss: 0.148812
Epoch: 20, Step: 2260, Loss: 0.153281
Epoch: 20, Step: 2270, Loss: 0.166881
Epoch: 20, Step: 2280, Loss: 0.164361
Epoch: 20, Step: 2290, Loss: 0.157049
Epoch: 20, Step: 2300, Loss: 0.165979
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2310, Loss: 0.154228
Epoch: 20, Step: 2320, Loss: 0.180696
Epoch: 20, Step: 2330, Loss: 0.196724
Epoch: 20, Step: 2340, Loss: 0.155558
Epoch: 20, Step: 2350, Loss: 0.160306
Epoch: 20, Step: 2360, Loss: 0.154772
Epoch: 20, Step: 2370, Loss: 0.158078
Epoch: 20, Step: 2380, Loss: 0.169473
Epoch: 20, Step: 2390, Loss: 0.163081
Epoch: 20, Step: 2400, Loss: 0.16503
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 20, Step: 2410, Loss: 0.159952
Epoch: 20, Step: 2420, Loss: 0.16404
Epoch: 20, Step: 2430, Loss: 0.161091
Epoch: 20, Step: 2440, Loss: 0.166978
Epoch: 20, Step: 2450, Loss: 0.221944
Model saved in file: ./save1\model.ckpt
Epoch: 21, Step: 2100, Loss: 0.229644
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2110, Loss: 5.97057
Epoch: 21, Step: 2120, Loss: 0.198368
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Epoch: 21, Step: 2130, Loss: 0.145445
Epoch: 21, Step: 2140, Loss: 0.153111
Epoch: 21, Step: 2150, Loss: 0.16386
Epoch: 21, Step: 2160, Loss: 0.166359
Epoch: 21, Step: 2170, Loss: 0.152819
Epoch: 21, Step: 2180, Loss: 0.337005
Epoch: 21, Step: 2190, Loss: 0.179345
Epoch: 21, Step: 2200, Loss: 0.14079
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2210, Loss: 0.148244
Epoch: 21, Step: 2220, Loss: 0.149418
Epoch: 21, Step: 2230, Loss: 0.155721
Epoch: 21, Step: 2240, Loss: 0.157388
Epoch: 21, Step: 2250, Loss: 0.21181
Epoch: 21, Step: 2260, Loss: 0.206543
Epoch: 21, Step: 2270, Loss: 0.173233
Epoch: 21, Step: 2280, Loss: 0.536896
Epoch: 21, Step: 2290, Loss: 0.686909
Epoch: 21, Step: 2300, Loss: 0.142585
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2310, Loss: 0.137526
Epoch: 21, Step: 2320, Loss: 0.144425
Epoch: 21, Step: 2330, Loss: 0.288093
Epoch: 21, Step: 2340, Loss: 0.259179
Epoch: 21, Step: 2350, Loss: 0.150438
Epoch: 21, Step: 2360, Loss: 0.137704
Epoch: 21, Step: 2370, Loss: 0.139152
Epoch: 21, Step: 2380, Loss: 0.140008
Epoch: 21, Step: 2390, Loss: 0.148498
Epoch: 21, Step: 2400, Loss: 0.143846
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2410, Loss: 0.162899
Epoch: 21, Step: 2420, Loss: 0.155832
Epoch: 21, Step: 2430, Loss: 0.3641
Epoch: 21, Step: 2440, Loss: 0.575203
Epoch: 21, Step: 2450, Loss: 0.278019
Epoch: 21, Step: 2460, Loss: 0.16647
Epoch: 21, Step: 2470, Loss: 0.142176
Epoch: 21, Step: 2480, Loss: 0.149883
Epoch: 21, Step: 2490, Loss: 0.17863
Epoch: 21, Step: 2500, Loss: 0.181381
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 21, Step: 2510, Loss: 0.155414
Epoch: 21, Step: 2520, Loss: 0.180285
Epoch: 21, Step: 2530, Loss: 0.228993
Epoch: 21, Step: 2540, Loss: 0.160176
Epoch: 21, Step: 2550, Loss: 0.134411
Model saved in file: ./save1\model.ckpt
Epoch: 22, Step: 2200, Loss: 0.135049
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2210, Loss: 0.139199
Epoch: 22, Step: 2220, Loss: 0.149961
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Epoch: 22, Step: 2230, Loss: 0.152754
Epoch: 22, Step: 2240, Loss: 0.135763
Epoch: 22, Step: 2250, Loss: 0.217528
Epoch: 22, Step: 2260, Loss: 0.48016
Epoch: 22, Step: 2270, Loss: 0.177284
Epoch: 22, Step: 2280, Loss: 0.395986
Epoch: 22, Step: 2290, Loss: 0.277415
Epoch: 22, Step: 2300, Loss: 0.278648
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2310, Loss: 0.24684
Epoch: 22, Step: 2320, Loss: 0.22871
Epoch: 22, Step: 2330, Loss: 0.164955
Epoch: 22, Step: 2340, Loss: 4.05089
Epoch: 22, Step: 2350, Loss: 0.30501
Epoch: 22, Step: 2360, Loss: 0.139318
Epoch: 22, Step: 2370, Loss: 0.151409
Epoch: 22, Step: 2380, Loss: 0.130441
Epoch: 22, Step: 2390, Loss: 0.13659
Epoch: 22, Step: 2400, Loss: 0.141054
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2410, Loss: 0.173362
Epoch: 22, Step: 2420, Loss: 0.160314
Epoch: 22, Step: 2430, Loss: 0.171204
Epoch: 22, Step: 2440, Loss: 0.173943
Epoch: 22, Step: 2450, Loss: 0.169218
Epoch: 22, Step: 2460, Loss: 0.135069
Epoch: 22, Step: 2470, Loss: 0.130827
Epoch: 22, Step: 2480, Loss: 0.137865
Epoch: 22, Step: 2490, Loss: 0.132726
Epoch: 22, Step: 2500, Loss: 0.131908
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2510, Loss: 0.135093
Epoch: 22, Step: 2520, Loss: 0.148091
Epoch: 22, Step: 2530, Loss: 0.135604
Epoch: 22, Step: 2540, Loss: 0.134189
Epoch: 22, Step: 2550, Loss: 0.133296
Epoch: 22, Step: 2560, Loss: 0.138737
Epoch: 22, Step: 2570, Loss: 0.142428
Epoch: 22, Step: 2580, Loss: 0.138205
Epoch: 22, Step: 2590, Loss: 0.129316
Epoch: 22, Step: 2600, Loss: 0.136945
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 22, Step: 2610, Loss: 0.142486
Epoch: 22, Step: 2620, Loss: 0.152755
Epoch: 22, Step: 2630, Loss: 0.129588
Epoch: 22, Step: 2640, Loss: 0.211012
Epoch: 22, Step: 2650, Loss: 1.13201
Model saved in file: ./save1\model.ckpt
Epoch: 23, Step: 2300, Loss: 4.4788
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2310, Loss: 0.185355
Epoch: 23, Step: 2320, Loss: 0.249704
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Epoch: 23, Step: 2300, Loss: 0.149701
Epoch: 23, Step: 2330, Loss: 0.245745
Epoch: 23, Step: 2340, Loss: 0.134324
Epoch: 23, Step: 2350, Loss: 0.150832
Epoch: 23, Step: 2360, Loss: 0.139311
Epoch: 23, Step: 2370, Loss: 0.149244
Epoch: 23, Step: 2380, Loss: 0.13302
Epoch: 23, Step: 2390, Loss: 0.13177
Epoch: 23, Step: 2400, Loss: 0.161134
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2410, Loss: 0.130794
Epoch: 23, Step: 2420, Loss: 0.128677
Epoch: 23, Step: 2430, Loss: 0.141227
Epoch: 23, Step: 2440, Loss: 0.144617
Epoch: 23, Step: 2450, Loss: 0.271092
Epoch: 23, Step: 2460, Loss: 0.193665
Epoch: 23, Step: 2470, Loss: 0.130428
Epoch: 23, Step: 2480, Loss: 0.130437
Epoch: 23, Step: 2490, Loss: 0.123937
Epoch: 23, Step: 2500, Loss: 0.125475
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2510, Loss: 0.121726
Epoch: 23, Step: 2520, Loss: 0.12285
Epoch: 23, Step: 2530, Loss: 0.124558
Epoch: 23, Step: 2540, Loss: 0.124967
Epoch: 23, Step: 2550, Loss: 0.123507
Epoch: 23, Step: 2560, Loss: 0.121102
Epoch: 23, Step: 2570, Loss: 0.121962
Epoch: 23, Step: 2580, Loss: 0.142551
Epoch: 23, Step: 2590, Loss: 0.122388
Epoch: 23, Step: 2600, Loss: 0.141717
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2610, Loss: 0.140447
Epoch: 23, Step: 2620, Loss: 0.40463
Epoch: 23, Step: 2630, Loss: 0.502647
Epoch: 23, Step: 2640, Loss: 0.213149
Epoch: 23, Step: 2650, Loss: 0.132451
Epoch: 23, Step: 2660, Loss: 0.133804
Epoch: 23, Step: 2670, Loss: 0.123021
Epoch: 23, Step: 2680, Loss: 0.13021
Epoch: 23, Step: 2690, Loss: 0.303438
Epoch: 23, Step: 2700, Loss: 0.206169
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 23, Step: 2710, Loss: 0.14553
Epoch: 23, Step: 2720, Loss: 0.165435
Epoch: 23, Step: 2730, Loss: 0.123827
Epoch: 23, Step: 2740, Loss: 0.12366
Epoch: 23, Step: 2750, Loss: 0.150683
Model saved in file: ./save1\model.ckpt
Epoch: 24, Step: 2400, Loss: 0.160675
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2410, Loss: 0.2281
Epoch: 24, Step: 2420, Loss: 0.199094
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Epoch: 24, Step: 2430, Loss: 0.135884
Epoch: 24, Step: 2440, Loss: 0.24072
Epoch: 24, Step: 2450, Loss: 0.458881
Epoch: 24, Step: 2460, Loss: 0.280407
Epoch: 24, Step: 2470, Loss: 0.170896
Epoch: 24, Step: 2480, Loss: 0.119024
Epoch: 24, Step: 2490, Loss: 0.118649
Epoch: 24, Step: 2500, Loss: 0.127066
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2510, Loss: 0.135465
Epoch: 24, Step: 2520, Loss: 0.206606
Epoch: 24, Step: 2530, Loss: 4.66869
Epoch: 24, Step: 2540, Loss: 0.24579
Epoch: 24, Step: 2550, Loss: 0.127339
Epoch: 24, Step: 2560, Loss: 0.140886
Epoch: 24, Step: 2570, Loss: 0.139495
Epoch: 24, Step: 2580, Loss: 0.128748
Epoch: 24, Step: 2590, Loss: 0.122547
Epoch: 24, Step: 2600, Loss: 0.145853
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2610, Loss: 0.121775
Epoch: 24, Step: 2620, Loss: 0.126372
Epoch: 24, Step: 2630, Loss: 0.13319
Epoch: 24, Step: 2640, Loss: 0.164304
Epoch: 24, Step: 2650, Loss: 0.122483
Epoch: 24, Step: 2660, Loss: 0.128063
Epoch: 24, Step: 2670, Loss: 0.199198
Epoch: 24, Step: 2680, Loss: 0.258204
Epoch: 24, Step: 2690, Loss: 0.163983
Epoch: 24, Step: 2700, Loss: 0.238984
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2710, Loss: 0.167418
Epoch: 24, Step: 2720, Loss: 0.116828
Epoch: 24, Step: 2730, Loss: 0.125493
Epoch: 24, Step: 2740, Loss: 0.120872
Epoch: 24, Step: 2750, Loss: 0.154863
Epoch: 24, Step: 2760, Loss: 0.166747
Epoch: 24, Step: 2770, Loss: 0.204365
Epoch: 24, Step: 2780, Loss: 0.274464
Epoch: 24, Step: 2790, Loss: 0.239781
Epoch: 24, Step: 2800, Loss: 0.196093
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 24, Step: 2810, Loss: 0.1847
Epoch: 24, Step: 2820, Loss: 0.18456
Epoch: 24, Step: 2830, Loss: 0.215076
Epoch: 24, Step: 2840, Loss: 2.35543
Epoch: 24, Step: 2850, Loss: 3.71531
Model saved in file: ./save1\model.ckpt
Epoch: 25, Step: 2500, Loss: 0.12768
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2510, Loss: 0.114924
Epoch: 25, Step: 2520, Loss: 0.168726
```

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Epoch: 25, Step: 2520, Loss: 0.155720
Epoch: 25, Step: 2530, Loss: 0.155581
Epoch: 25, Step: 2540, Loss: 0.133197
Epoch: 25, Step: 2550, Loss: 0.166315
Epoch: 25, Step: 2560, Loss: 0.204995
Epoch: 25, Step: 2570, Loss: 0.125076
Epoch: 25, Step: 2580, Loss: 0.123017
Epoch: 25, Step: 2590, Loss: 0.125672
Epoch: 25, Step: 2600, Loss: 0.125315
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2610, Loss: 0.130258
Epoch: 25, Step: 2620, Loss: 0.138337
Epoch: 25, Step: 2630, Loss: 0.140723
Epoch: 25, Step: 2640, Loss: 0.164033
Epoch: 25, Step: 2650, Loss: 0.138343
Epoch: 25, Step: 2660, Loss: 0.145196
Epoch: 25, Step: 2670, Loss: 0.280576
Epoch: 25, Step: 2680, Loss: 0.119694
Epoch: 25, Step: 2690, Loss: 0.126883
Epoch: 25, Step: 2700, Loss: 0.132294
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2710, Loss: 0.122613
Epoch: 25, Step: 2720, Loss: 0.121123
Epoch: 25, Step: 2730, Loss: 0.122359
Epoch: 25, Step: 2740, Loss: 0.12062
Epoch: 25, Step: 2750, Loss: 0.115575
Epoch: 25, Step: 2760, Loss: 0.123554
Epoch: 25, Step: 2770, Loss: 0.192036
Epoch: 25, Step: 2780, Loss: 0.130272
Epoch: 25, Step: 2790, Loss: 0.119326
Epoch: 25, Step: 2800, Loss: 0.344983
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2810, Loss: 0.201432
Epoch: 25, Step: 2820, Loss: 0.142711
Epoch: 25, Step: 2830, Loss: 0.130741
Epoch: 25, Step: 2840, Loss: 0.113623
Epoch: 25, Step: 2850, Loss: 0.113805
Epoch: 25, Step: 2860, Loss: 0.129531
Epoch: 25, Step: 2870, Loss: 0.190133
Epoch: 25, Step: 2880, Loss: 0.146799
Epoch: 25, Step: 2890, Loss: 0.147237
Epoch: 25, Step: 2900, Loss: 0.135362
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 25, Step: 2910, Loss: 0.198843
Epoch: 25, Step: 2920, Loss: 0.123571
Epoch: 25, Step: 2930, Loss: 0.110881
Epoch: 25, Step: 2940, Loss: 0.115775
Epoch: 25, Step: 2950, Loss: 0.127604
Model saved in file: ./save1\model.ckpt
Epoch: 26, Step: 2600, Loss: 0.154526
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 2610, Loss: 0.111523
Epoch: 26, Step: 2620, Loss: 0.125076
```

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Epoch: 26, Step: 2620, Loss: 0.125070
Epoch: 26, Step: 2630, Loss: 0.205209
Epoch: 26, Step: 2640, Loss: 0.355951
Epoch: 26, Step: 2650, Loss: 0.368015
Epoch: 26, Step: 2660, Loss: 0.203584
Epoch: 26, Step: 2670, Loss: 0.192705
Epoch: 26, Step: 2680, Loss: 0.238442
Epoch: 26, Step: 2690, Loss: 0.248497
Epoch: 26, Step: 2700, Loss: 0.160145
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 2710, Loss: 0.786735
Epoch: 26, Step: 2720, Loss: 4.41431
Epoch: 26, Step: 2730, Loss: 0.142037
Epoch: 26, Step: 2740, Loss: 0.13583
Epoch: 26, Step: 2750, Loss: 0.200508
Epoch: 26, Step: 2760, Loss: 0.116337
Epoch: 26, Step: 2770, Loss: 0.13484
Epoch: 26, Step: 2780, Loss: 0.161255
Epoch: 26, Step: 2790, Loss: 0.219454
Epoch: 26, Step: 2800, Loss: 0.22808
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 2810, Loss: 0.441369
Epoch: 26, Step: 2820, Loss: 0.270883
Epoch: 26, Step: 2830, Loss: 0.588604
Epoch: 26, Step: 2840, Loss: 0.118666
Epoch: 26, Step: 2850, Loss: 0.152093
Epoch: 26, Step: 2860, Loss: 0.118553
Epoch: 26, Step: 2870, Loss: 0.109995
Epoch: 26, Step: 2880, Loss: 0.109985
Epoch: 26, Step: 2890, Loss: 0.109515
Epoch: 26, Step: 2900, Loss: 0.107779
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 2910, Loss: 0.107825
Epoch: 26, Step: 2920, Loss: 0.108276
Epoch: 26, Step: 2930, Loss: 0.107259
Epoch: 26, Step: 2940, Loss: 0.107857
Epoch: 26, Step: 2950, Loss: 0.106788
Epoch: 26, Step: 2960, Loss: 0.106777
Epoch: 26, Step: 2970, Loss: 0.106711
Epoch: 26, Step: 2980, Loss: 0.106522
Epoch: 26, Step: 2990, Loss: 0.106163
Epoch: 26, Step: 3000, Loss: 0.107901
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 26, Step: 3010, Loss: 0.132671
Epoch: 26, Step: 3020, Loss: 0.159072
Epoch: 26, Step: 3030, Loss: 3.3253
Epoch: 26, Step: 3040, Loss: 2.31738
Epoch: 26, Step: 3050, Loss: 0.114173
Model saved in file: ./save1\model.ckpt
Epoch: 27, Step: 2700, Loss: 0.118474
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 2710, Loss: 0.130892
Epoch: 27, Step: 2720, Loss: 0.111218
```

```
Epoch: 26, Step: 2720, Loss: 0.111210
Epoch: 27, Step: 2730, Loss: 0.124052
Epoch: 27, Step: 2740, Loss: 0.122746
Epoch: 27, Step: 2750, Loss: 0.117608
Epoch: 27, Step: 2760, Loss: 0.121838
Epoch: 27, Step: 2770, Loss: 0.111817
Epoch: 27, Step: 2780, Loss: 0.148412
Epoch: 27, Step: 2790, Loss: 0.141673
Epoch: 27, Step: 2800, Loss: 0.128016
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 2810, Loss: 0.14158
Epoch: 27, Step: 2820, Loss: 0.265369
Epoch: 27, Step: 2830, Loss: 0.305786
Epoch: 27, Step: 2840, Loss: 0.209358
Epoch: 27, Step: 2850, Loss: 0.126882
Epoch: 27, Step: 2860, Loss: 0.129793
Epoch: 27, Step: 2870, Loss: 0.119932
Epoch: 27, Step: 2880, Loss: 0.114944
Epoch: 27, Step: 2890, Loss: 0.109985
Epoch: 27, Step: 2900, Loss: 0.112361
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 2910, Loss: 0.113204
Epoch: 27, Step: 2920, Loss: 0.107505
Epoch: 27, Step: 2930, Loss: 0.110088
Epoch: 27, Step: 2940, Loss: 0.110982
Epoch: 27, Step: 2950, Loss: 0.111815
Epoch: 27, Step: 2960, Loss: 0.122009
Epoch: 27, Step: 2970, Loss: 0.130507
Epoch: 27, Step: 2980, Loss: 0.15955
Epoch: 27, Step: 2990, Loss: 0.168321
Epoch: 27, Step: 3000, Loss: 0.422211
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 3010, Loss: 0.304753
Epoch: 27, Step: 3020, Loss: 0.130588
Epoch: 27, Step: 3030, Loss: 0.106822
Epoch: 27, Step: 3040, Loss: 0.115778
Epoch: 27, Step: 3050, Loss: 0.122534
Epoch: 27, Step: 3060, Loss: 0.164097
Epoch: 27, Step: 3070, Loss: 0.581912
Epoch: 27, Step: 3080, Loss: 0.262436
Epoch: 27, Step: 3090, Loss: 0.132695
Epoch: 27, Step: 3100, Loss: 0.128271
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 27, Step: 3110, Loss: 0.112638
Epoch: 27, Step: 3120, Loss: 0.10386
Epoch: 27, Step: 3130, Loss: 0.11608
Epoch: 27, Step: 3140, Loss: 0.141397
Epoch: 27, Step: 3150, Loss: 0.135948
Model saved in file: ./save1\model.ckpt
Epoch: 28, Step: 2800, Loss: 0.105578
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 2810, Loss: 0.146311
Epoch: 28, Step: 2820, Loss: 0.266621
```



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Epoch: 28, Step: 2820, Loss: 0.389821
Epoch: 28, Step: 2830, Loss: 0.195501
Epoch: 28, Step: 2840, Loss: 0.333824
Epoch: 28, Step: 2850, Loss: 0.125233
Epoch: 28, Step: 2860, Loss: 0.118868
Epoch: 28, Step: 2870, Loss: 0.119797
Epoch: 28, Step: 2880, Loss: 0.115128
Epoch: 28, Step: 2890, Loss: 0.117753
Epoch: 28, Step: 2900, Loss: 2.34117
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 2910, Loss: 3.50391
Epoch: 28, Step: 2920, Loss: 0.10987
Epoch: 28, Step: 2930, Loss: 0.106726
Epoch: 28, Step: 2940, Loss: 0.112307
Epoch: 28, Step: 2950, Loss: 0.116461
Epoch: 28, Step: 2960, Loss: 0.107558
Epoch: 28, Step: 2970, Loss: 0.129408
Epoch: 28, Step: 2980, Loss: 0.132386
Epoch: 28, Step: 2990, Loss: 0.108542
Epoch: 28, Step: 3000, Loss: 0.127523
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 3010, Loss: 0.114417
Epoch: 28, Step: 3020, Loss: 0.192502
Epoch: 28, Step: 3030, Loss: 0.107616
Epoch: 28, Step: 3040, Loss: 0.107158
Epoch: 28, Step: 3050, Loss: 0.143273
Epoch: 28, Step: 3060, Loss: 0.110159
Epoch: 28, Step: 3070, Loss: 0.132725
Epoch: 28, Step: 3080, Loss: 0.16995
Epoch: 28, Step: 3090, Loss: 0.106392
Epoch: 28, Step: 3100, Loss: 0.101997
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 3110, Loss: 0.105271
Epoch: 28, Step: 3120, Loss: 0.105514
Epoch: 28, Step: 3130, Loss: 0.113187
Epoch: 28, Step: 3140, Loss: 0.11609
Epoch: 28, Step: 3150, Loss: 0.109113
Epoch: 28, Step: 3160, Loss: 0.103138
Epoch: 28, Step: 3170, Loss: 0.121003
Epoch: 28, Step: 3180, Loss: 0.171952
Epoch: 28, Step: 3190, Loss: 0.162428
Epoch: 28, Step: 3200, Loss: 0.414241
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 28, Step: 3210, Loss: 0.141143
Epoch: 28, Step: 3220, Loss: 4.65263
Epoch: 28, Step: 3230, Loss: 1.20021
Epoch: 28, Step: 3240, Loss: 0.1027
Epoch: 28, Step: 3250, Loss: 0.110141
Model saved in file: ./save1\model.ckpt
Epoch: 29, Step: 2900, Loss: 0.110296
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow:  `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 2910, Loss: 0.12908
Epoch: 29, Step: 2920, Loss: 0.110707
```

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Epoch: 29, Step: 2920, Loss: 0.112797
Epoch: 29, Step: 2930, Loss: 0.147787
Epoch: 29, Step: 2940, Loss: 0.131489
Epoch: 29, Step: 2950, Loss: 0.107765
Epoch: 29, Step: 2960, Loss: 0.109175
Epoch: 29, Step: 2970, Loss: 0.206325
Epoch: 29, Step: 2980, Loss: 0.314302
Epoch: 29, Step: 2990, Loss: 0.149672
Epoch: 29, Step: 3000, Loss: 0.232276
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 3010, Loss: 0.120285
Epoch: 29, Step: 3020, Loss: 0.121655
Epoch: 29, Step: 3030, Loss: 0.106855
Epoch: 29, Step: 3040, Loss: 0.221421
Epoch: 29, Step: 3050, Loss: 0.17907
Epoch: 29, Step: 3060, Loss: 0.145314
Epoch: 29, Step: 3070, Loss: 0.423853
Epoch: 29, Step: 3080, Loss: 0.125578
Epoch: 29, Step: 3090, Loss: 0.108725
Epoch: 29, Step: 3100, Loss: 0.107125
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 3110, Loss: 0.102729
Epoch: 29, Step: 3120, Loss: 0.102142
Epoch: 29, Step: 3130, Loss: 0.123411
Epoch: 29, Step: 3140, Loss: 0.107432
Epoch: 29, Step: 3150, Loss: 0.128381
Epoch: 29, Step: 3160, Loss: 0.11206
Epoch: 29, Step: 3170, Loss: 0.133695
Epoch: 29, Step: 3180, Loss: 0.202998
Epoch: 29, Step: 3190, Loss: 0.114499
Epoch: 29, Step: 3200, Loss: 0.109878
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 3210, Loss: 0.173221
Epoch: 29, Step: 3220, Loss: 0.43549
Epoch: 29, Step: 3230, Loss: 0.178076
Epoch: 29, Step: 3240, Loss: 0.147991
Epoch: 29, Step: 3250, Loss: 0.166799
Epoch: 29, Step: 3260, Loss: 0.121706
Epoch: 29, Step: 3270, Loss: 0.188262
Epoch: 29, Step: 3280, Loss: 0.118224
Epoch: 29, Step: 3290, Loss: 0.0991777
Epoch: 29, Step: 3300, Loss: 0.121706
WARNING:tensorflow:*****
WARNING:tensorflow:TensorFlow's V1 checkpoint format has been deprecated.
WARNING:tensorflow:Consider switching to the more efficient V2 format:
WARNING:tensorflow: `tf.train.Saver(write_version=tf.train.SaverDef.V2)`
WARNING:tensorflow:now on by default.
WARNING:tensorflow:*****
Epoch: 29, Step: 3310, Loss: 0.121084
Epoch: 29, Step: 3320, Loss: 0.112142
Epoch: 29, Step: 3330, Loss: 0.112543
Epoch: 29, Step: 3340, Loss: 0.118105
Epoch: 29, Step: 3350, Loss: 0.101294
Model saved in file: ./save1\model.ckpt
Run the command line:
--> tensorboard --logdir=./logs
Then open http://0.0.0.0:6006/ into your web browser

```

LOSS :- 0.101294

it is giving good observation and my loss at last become 0.101294

VISUALIZATION AND TEST

In [0]:

```
#pip3 install opencv-python

import tensorflow as tf
import scipy.misc
import model
import cv2
from subprocess import call
import math

sess = tf.InteractiveSession()
saver = tf.train.Saver()
saver.restore(sess, "save1/model.ckpt")

img = cv2.imread('steering_wheel_image.jpg',0)
rows,cols = img.shape

smoothed_angle = 0

#read data.txt
xs = []
ys = []
with open("driving_dataset/data.txt") as f:
    for line in f:
        xs.append("driving_dataset/" + line.split()[0])
        #the paper by Nvidia uses the inverse of the turning radius,
        #but steering wheel angle is proportional to the inverse of turning radius
        #so the steering wheel angle in radians is used as the output
        ys.append(float(line.split()[1]) * scipy.pi / 180)

#get number of images
num_images = len(xs)

i = math.ceil(num_images*0.8)
print("Starting frameofvideo:" +str(i))

while(cv2.waitKey(10) != ord('q')):
    full_image = scipy.misc.imread("driving_dataset/" + str(i) + ".jpg", mode="RGB")
    image = scipy.misc.imresize(full_image[-150:], [66, 200]) / 255.0
    degrees = model.y.eval(feed_dict={model.x: [image], model.keep_prob: 1.0})[0][0] * 180.0 /
    scipy.pi
    #call("clear")
    #print("Predicted Steering angle: " + str(degrees))
    print("Steering angle: " + str(degrees) + " (pred)\t" + str(ys[i]*180/scipy.pi) + " (actual)")
    cv2.imshow("frame", cv2.cvtColor(full_image, cv2.COLOR_RGB2BGR))
    #make smooth angle transitions by turning the steering wheel based on the difference of the cu
    rrent angle
    #and the predicted angle
    smoothed_angle += 0.2 * pow(abs((degrees - smoothed_angle)), 2.0 / 3.0) * (degrees -
    smoothed_angle) / abs(degrees - smoothed_angle)
    M = cv2.getRotationMatrix2D((cols/2,rows/2),-smoothed_angle,1)
    dst = cv2.warpAffine(img,M,(cols,rows))
    cv2.imshow("steering wheel", dst)
    i += 1

cv2.destroyAllWindows()
```

```
C:\Users\aman\Anaconda3\lib\site-packages\tensorflow_core\python\client\session.py:1750:
UserWarning: An interactive session is already active. This can cause out-of-memory errors in some
cases. You must explicitly call `InteractiveSession.close()` to release resources held by the
other session(s).
  warnings.warn('An interactive session is already active. This can '
```

```
INFO:tensorflow:Restoring parameters from save1/model.ckpt
Starting frameofvideo:36325
Steering angle: 13.126623815824747 (pred) -10.79 (actual)
```

Steering angle: 13.064145514165702 (pred) -10.08 (actual)
Steering angle: 12.231022091095994 (pred) -9.380000000000003 (actual)

```
C:\Users\aman\Anaconda3\lib\site-packages\ipykernel_launcher.py:39: DeprecationWarning: `imread` is deprecated!  
`imread` is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.  
Use ``imageio.imread`` instead.  
C:\Users\aman\Anaconda3\lib\site-packages\ipykernel_launcher.py:40: DeprecationWarning: `imresize` is deprecated!  
`imresize` is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.  
Use ``skimage.transform.resize`` instead.
```

Steering angle: 10.35999251326126 (pred) -7.559999999999999 (actual)
Steering angle: 9.875730393560064 (pred) -5.949999999999999 (actual)
Steering angle: 11.41925154691904 (pred) -3.23 (actual)
Steering angle: 8.09562600150383 (pred) -0.81 (actual)
Steering angle: 11.257841370226945 (pred) 1.21 (actual)
Steering angle: 10.80354414418824 (pred) 3.4300000000000006 (actual)
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Steering angle: 7.594319998502512 (pred) 5.24 (actual)
Steering angle: 7.141705133433747 (pred) 4.84 (actual)

Steering angle: 6.711749847823322 (pred) 4.84 (actual)
Steering angle: 6.397604261571871 (pred) 4.84 (actual)
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Steering angle: 8.358490100580001 (pred) 4.84 (actual)
Steering angle: 8.579135946622678 (pred) 5.24 (actual)
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Steering angle: 14.336462907471923 (pred) 6.45 (actual)
Steering angle: 14.407073403111513 (pred) 6.45 (actual)
Steering angle: 14.259015392473147 (pred) 6.25 (actual)
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Steering angle: 12.537846141444016 (pred) 3.03 (actual)
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Steering angle: 3.017799983346482 (pred) -0.4 (actual)
Steering angle: 3.0453977895747415 (pred) -0.5 (actual)
Steering angle: 3.3145874975959915 (pred) -0.61 (actual)

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Steering angle: 13.253340046627763 (pred) -134.72 (actual)
Steering angle: 13.186970244689102 (pred) -134.72 (actual)
Steering angle: 13.27977544003665 (pred) -134.72 (actual)
Steering angle: 13.07681209998149 (pred) -135.13 (actual)
Steering angle: 12.965509044814254 (pred) -135.93 (actual)
Steering angle: 13.274502533997401 (pred) -138.35 (actual)
Steering angle: 13.612386869596053 (pred) -140.57 (actual)
Steering angle: 13.703975437497693 (pred) -143.5 (actual)
Steering angle: 13.35313081794894 (pred) -144.4 (actual)
Steering angle: 11.479565532384838 (pred) -144.4 (actual)
Steering angle: 6.106028608545904 (pred) -144.3 (actual)
Steering angle: 3.5257133405961403 (pred) -144.3 (actual)
Steering angle: 3.1753222882969587 (pred) -145.11 (actual)
Steering angle: 2.1694136488027356 (pred) -146.52 (actual)
Steering angle: 1.8870952499796632 (pred) -147.62999999999997 (actual)
Steering angle: 12.892606166934478 (pred) -148.13 (actual)
Steering angle: 14.913999798026104 (pred) -148.13 (actual)
Steering angle: 14.097542890304876 (pred) -148.43999999999997 (actual)
Steering angle: 14.21865153579931 (pred) -148.94 (actual)
Steering angle: 15.313050185189514 (pred) -149.14 (actual)
Steering angle: 16.00043700816501 (pred) -149.14 (actual)
Steering angle: 16.55157863267168 (pred) -149.04 (actual)
Steering angle: 15.948729061053431 (pred) -148.94 (actual)
Steering angle: 15.225545216637897 (pred) -148.84 (actual)
Steering angle: 14.101542819837565 (pred) -147.83 (actual)
Steering angle: -0.0967035058060132 (pred) -146.41999999999996 (actual)
Steering angle: -21.400362367862293 (pred) -143.8 (actual)
Steering angle: -29.063735578873633 (pred) -140.17 (actual)
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Steering angle: -31.06957089280962 (pred) -131.6 (actual)
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Steering angle: -27.81644399868634 (pred) -122.22 (actual)
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Steering angle: -3.77751509453783 (pred) -112.13 (actual)
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Steering angle: 3.413783829015968 (pred) -100.24 (actual)
Steering angle: 2.420583396802788 (pred) -93.58 (actual)
Steering angle: 2.3418618380803946 (pred) -89.55 (actual)
Steering angle: 2.275561618693904 (pred) -84.71 (actual)
Steering angle: 2.346953317219816 (pred) -78.66 (actual)
Steering angle: 2.249041915137448 (pred) -74.52 (actual)
Steering angle: 2.723361413841222 (pred) -68.37 (actual)
Steering angle: 3.799089954578608 (pred) -64.33999999999999 (actual)
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Steering angle: 2.114429345323664 (pred) -55.56 (actual)

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Steering angle: 1.0974412852220334 (pred) -36.71 (actual)
Steering angle: -2.164572752228489 (pred) -32.67 (actual)
Steering angle: -3.2431381693489576 (pred) -29.450000000000003 (actual)
Steering angle: -2.529296529614119 (pred) -25.210000000000004 (actual)
Steering angle: -2.996447317897141 (pred) -20.469999999999995 (actual)
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Steering angle: -1.457727894246388 (pred) -14.22 (actual)
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Steering angle: -4.322725126637166 (pred) -10.59 (actual)
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Steering angle: -1.2976915460728176 (pred) -7.969999999999999 (actual)
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Steering angle: -3.4194955747093907 (pred) -5.04 (actual)
Steering angle: -5.469758921318781 (pred) -3.63 (actual)
Steering angle: -3.7612852844094107 (pred) -2.22 (actual)
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Steering angle: -5.612741674517005 (pred) -2.02 (actual)
Steering angle: -5.95987878200691 (pred) -2.02 (actual)
Steering angle: -5.8383880728057775 (pred) -1.82 (actual)
Steering angle: -4.912555930810549 (pred) -1.82 (actual)
Steering angle: -4.312965213200041 (pred) -2.02 (actual)
Steering angle: -3.5818903658590258 (pred) -2.82 (actual)
Steering angle: -2.964286945303313 (pred) -3.4300000000000006 (actual)
Steering angle: -2.978103777664014 (pred) -3.829999999999999 (actual)
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Steering angle: -2.915986622257333 (pred) -5.340000000000001 (actual)
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Steering angle: -1.2010294282783278 (pred) -5.55 (actual)
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Steering angle: 3.1140335067705536 (pred) -6.76 (actual)
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Steering angle: 5.2213944600769 (pred) -7.760000000000002 (actual)
Steering angle: 4.5463625955363085 (pred) -8.17 (actual)
Steering angle: 5.334186069596375 (pred) -8.37 (actual)
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Steering angle: 4.080984241342905 (pred) -8.67 (actual)
Steering angle: 3.6000932468839326 (pred) -8.67 (actual)
Steering angle: 3.4371776538100844 (pred) -8.469999999999999 (actual)
Steering angle: 4.319813331616625 (pred) -7.87 (actual)
Steering angle: 4.3187247702176546 (pred) -7.26 (actual)
Steering angle: 4.765924149048246 (pred) -6.35 (actual)
Steering angle: 5.048939867496895 (pred) -5.45 (actual)
Steering angle: 4.783273683313725 (pred) -4.44 (actual)
Steering angle: 4.455901008847721 (pred) -3.3299999999999996 (actual)
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Steering angle: 3.020555964676582 (pred) -1.21 (actual)
Steering angle: 2.5499734332224517 (pred) -1.21 (actual)
Steering angle: 2.309533485521666 (pred) -1.21 (actual)
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Steering angle: 1.3234961074788316 (pred) -1.31 (actual)
Steering angle: 1.6628473329234508 (pred) -1.31 (actual)
Steering angle: 2.5394549419006323 (pred) -1.31 (actual)
Steering angle: 3.7610308598628275 (pred) -1.31 (actual)
Steering angle: 5.849387238690436 (pred) -1.71 (actual)
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Steering angle: 9.659239863853692 (pred) -2.32 (actual)
Steering angle: 9.723746731696231 (pred) -2.32 (actual)
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Steering angle: 8.424956378940688 (pred) -2.32 (actual)
Steering angle: 5.19582735446625 (pred) -2.32 (actual)
Steering angle: 4.92074063187034 (pred) -2.32 (actual)
Steering angle: 3.653024651630593 (pred) -2.12 (actual)
Steering angle: 2.4645881711910644 (pred) -1.92 (actual)
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Steering angle: 1.5341617664836504 (pred) 2.42 (actual)
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Steering angle: 1.6293052344048702 (pred) 4.74 (actual)
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Steering angle: 1.5439715189573755 (pred) 12.4 (actual)
Steering angle: 1.5318305375425605 (pred) 12.9100000000000002 (actual)
Steering angle: 1.6763417590109861 (pred) 13.82 (actual)
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Steering angle: 1.392111013942016 (pred) 15.83 (actual)
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Steering angle: 1.8303274133535716 (pred) 16.64 (actual)
Steering angle: 2.082233968010339 (pred) 16.74 (actual)
Steering angle: 2.461736140325761 (pred) 16.84 (actual)
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Steering angle: 3.043105407334556 (pred) 16.9399999999999998 (actual)
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Steering angle: 1.8114346832224932 (pred) 17.75 (actual)
Steering angle: 1.42834399355017 (pred) 17.8500000000000005 (actual)
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Steering angle: -2.4937829610246376 (pred) 17.8500000000000005 (actual)
Steering angle: -0.36393857243534294 (pred) 17.34 (actual)
Steering angle: 3.3976549776212175 (pred) 17.04 (actual)
Steering angle: 4.119892840836705 (pred) 16.64 (actual)
Steering angle: 2.949903634128324 (pred) 16.13 (actual)
Steering angle: 2.0637525433333423 (pred) 15.9299999999999998 (actual)
Steering angle: 2.1207229377570074 (pred) 15.9299999999999998 (actual)
Steering angle: 2.7059576649492065 (pred) 15.9299999999999998 (actual)
Steering angle: 2.9151420266777786 (pred) 15.9299999999999998 (actual)
Steering angle: 3.2041456865944125 (pred) 15.9299999999999998 (actual)
Steering angle: 2.836476176685803 (pred) 15.83 (actual)
Steering angle: 2.739294110740746 (pred) 16.03 (actual)
Steering angle: 2.518622864932093 (pred) 16.03 (actual)
Steering angle: 2.5099039150131603 (pred) 16.03 (actual)
Steering angle: 2.5010716266426876 (pred) 16.03 (actual)
Steering angle: 2.426843051733693 (pred) 16.03 (actual)
Steering angle: 2.379678247637228 (pred) 16.03 (actual)
Steering angle: 2.56412451796566 (pred) 16.03 (actual)
Steering angle: 2.747238261075706 (pred) 16.03 (actual)
Steering angle: 2.6743104103167754 (pred) 16.03 (actual)
Steering angle: 2.7989671256416204 (pred) 16.03 (actual)
Steering angle: 3.363787057734886 (pred) 16.03 (actual)
Steering angle: 3.307077064273328 (pred) 16.03 (actual)
Steering angle: 3.1794291529788405 (pred) 16.44 (actual)
Steering angle: 3.0881658728364227 (pred) 16.74 (actual)
Steering angle: 2.9119211655972945 (pred) 17.2399999999999995 (actual)
Steering angle: 2.602084361495064 (pred) 17.65 (actual)

```
Steering angle: 0.11457809085361673 (pred) 18.05 (actual)
Steering angle: -0.14144802836802045 (pred) 18.05 (actual)
Steering angle: 0.43385068123230097 (pred) 18.05 (actual)
Steering angle: 0.12353587060987524 (pred) 18.05 (actual)
Steering angle: -0.7999097606006684 (pred) 18.05 (actual)
Steering angle: -0.256626855703481 (pred) 18.05 (actual)
Steering angle: 1.4689736939931084 (pred) 18.05 (actual)
Steering angle: 0.8617444770129987 (pred) 18.05 (actual)
Steering angle: 1.463448070954568 (pred) 18.149999999999995 (actual)
Steering angle: 1.5689748137963824 (pred) 18.05 (actual)
```

In [4]:

```
from IPython.display import Image
from IPython.display import display
display(Image(url='alphale-4.gif'))
```

□

IN MOST OF CASES MY PREDICTED AND ACTUAL IS ALMOST SAME SO 1e-4 works best for this model

SUMMARY

1. First I split the dataset into (70:30) ratio.
2. Then i plot the curve of angles.
3. Then i make the model as per this architecture.

In [7]:

```
from IPython.display import Image
from IPython.display import display
display(Image(url='model.png'))
```

□

In []:

- ```
4. train the model .
5. visualize and test the output.
```

**END**