//โหลด Model ที่เซฟไว้ออกมาใช้

```
[ ]  #Load model

     with open('history_model', 'rb') as file:
         history = p.load(file)
         filepath='model_l1.h5'

     filepath_model = 'model_l1.json'
     filepath_weights = 'weights_model_l1.h5'
```

#Load model

with open('history_model', 'rb') as file:

history = p.load(file)

filepath='model_l1.h5'

filepath_model = 'model_l1.json'

filepath_weights = 'weights_model_l1.h5'

//ดูผลโมเดล

```
[ ]  predict_model = load_model(filepath)
     predict_model.summary()
```

predict_model = load_model(filepath)

predict_model.summary()

//เปิด Model

```
[ ]  with open(filepath_model, 'r') as f:
      loaded_model_json = f.read()
      predict_model = model_from_json(loaded_model_json)
      predict_model.load_weights(filepath_weights)
      print("Loaded model from disk")
```

```
with open(filepath_model, 'r') as f:
 loaded_model_json = f.read()
 predict_model = model_from_json(loaded_model_json)
 predict_model.load_weights(filepath_weights)
 print("Loaded model from disk")
```

//อ่านประมวลผลภาพ *ตรง test_path ให้เอา part ของภาพที่อัปโหลดเข้ามาใส่แทน

```
[ ]  test_path = ("/content/drive/MyDrive/Datasets/test_l/0001_0001.JPG")
     img = keras.preprocessing.image.load_img(test_path, target_size=(128, 128))
     img_array = keras.preprocessing.image.img_to_array(img)
     img_array = tf.expand_dims(img_array, 0)
     predictions = predict_model.predict(img_array)
     score = tf.nn.softmax(predictions[0])
     print("orchid",score[0],"other_leaf",score[1])
     display(Image(filename=test_path,width=180, height=180))

     if score[0]==np.max(score) :
      leaf = "เป็นใบกล้วยไม้"
     elif score[1]==np.max(score) :
      leaf = "ไม่ใช่ใบกล้วยไม้"

     print("มีความมั่นใจว่าจะเป็น {} {:.2f}%.".format(leaf, 100 * np.max(score)))
```

```
test_path = ("/content/drive/MyDrive/Datasets/test_l/0001_0001.JPG")
img = keras.preprocessing.image.load_img(test_path, target_size=(128, 128))
img_array = keras.preprocessing.image.img_to_array(img)
img_array = tf.expand_dims(img_array, 0)
predictions = predict_model.predict(img_array)
score = tf.nn.softmax(predictions[0])
print("orchid",score[0],"other_leaf",score[1])
display(Image(filename=test_path,width=180, height=180))

if score[0]==np.max(score) :
 leaf = "เป็นใบกล้วยไม้"
elif score[1]==np.max(score) :
 leaf = "ไม่ใช่ใบกล้วยไม้"

print("มีความมั่นใจว่าจะเป็น {} {:.2f}%.".format(leaf, 100 * np.max(score)))
```