**from**keras.preprocessing.image**import**ImageDataGenerator

train\_datagen**=**ImageDataGenerator(rescale**=**1.**/**255,shear\_range**=**0.2,zoom\_range**=**0.2,horizontal\_flip**=True**)

test\_datagen**=**ImageDataGenerator(rescale**=**1)

In [2]:

x\_train**=**train\_datagen**.**flow\_from\_directory(r'C:\Users\abi\project\Dataset Plant Disease\fruit-dataset\fruit-dataset\train',target\_size**=**(128,128),batch\_size**=**2,class\_mode**=**'categorical')

x\_test**=**test\_datagen**.**flow\_from\_directory(r'C:\Users\abi\project\Dataset Plant Disease\fruit-dataset\fruit-dataset\test',target\_size**=**(128,128),batch\_size**=**2,class\_mode**=**'categorical')

Found 5384 images belonging to 6 classes.

Found 1686 images belonging to 6 classes.

[3]:

**from** keras.models **import** Sequential

**from** keras.layers **import** Dense

**from** keras.layers **import** Convolution2D

**from** keras.layers **import** MaxPooling2D

**from** keras.layers **import** Flatten