Image Preprocessing

Import ImageDataGenerator Library

```
In [1]:
import tensorflow as tf
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Dense, Conv2D, Flatten, Dropout,
MaxPooling2D
from tensorflow.keras.preprocessing.image import ImageDataGenerator
imort the imagedatagenerator library
from keros.processing.image import imagedatagenerator
image data agumentation
#setting parameter for image data agumentation to the traing data
train datagen =
Imagedatagenerator(rescale=1./255, shear range=0.2, zoom range=0.2, horizontal
flip=True)
#Image data aumentation to the testing data
test datagen=Imagedatagenerator(rescale=1./255)
loading our data and performing data agumentation
#performing data agumentation to train data
x train =
train datagen.flow from directory('../data/train set', target size=(64,64),b
atch size=5,color mode='rgb',class mode='categorical')
#performing data agu, mentation to test data
x test =
test datagen.flow from directory('../data/test set',target size=(64,64),bat
ch_size=5,color_mode='rgb',class_mode='categorical')
Found 742 images belonging to 4 classes.
Found 198 images belonging to 4 classes.
```