

V.S.B. ENGINEERING COLLEGE, KARUR

Department of Electronics and Communication Engineering

IBM NALAIYA THIRAN

Import the Libraries

TEAM ID : PNT2022TMID33603

```
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
```