Import the libraries

Date	11 November 2022
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Project Name	Fertilizers Recommendation System For Disease Prediction

```
from keras.preprocessing.image import ImageDataGenerator
train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_ran
ge=
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
```