In [1]:
```
import pandas as pd
```

In [2]:
```
import numpy as np
```

In [3]:
```
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 [6]:
```
x_train = train_datagen.flow_from_directory(r'E:\IBM\Fertilizers_Recommendatio
n_ System_For_Disease_ Prediction\Dataset Plant Disease\fruit-dataset\fruit-da
taset\train',target_size = (128,128),batch_size = 32, class_mode = 'categorica
l')
x_test = test_datagen.flow_from_directory(r'E:\IBM\Fertilizers_Recommendation_
System_For_Disease_ Prediction\Dataset Plant Disease\fruit-dataset\fruit-datas
et\test',target_size = (128,128),batch_size = 32,class_mode = 'categorical')
```

```
Found 5384 images belonging to 6 classes.
Found 1686 images belonging to 6 classes.
```

In [9]:
```
x_train = train_datagen.flow_from_directory(r'E:\IBM\Fertilizers_Recommendatio
n_ System_For_Disease_ Prediction\Dataset Plant Disease\Veg-dataset\Veg-datase
t\test_set',target_size = (128,128), batch_size = 32, class_mode = 'categorica
l')
x_test = test_datagen.flow_from_directory(r'E:\IBM\Fertilizers_Recommendation_
System_For_Disease_ Prediction\Dataset Plant Disease\Veg-dataset\Veg-dataset\t
rain_set',target_size = (128,128),batch_size = 32,class_mode = 'categorical')
```

```
Found 3416 images belonging to 9 classes.
Found 11385 images belonging to 9 classes.
```

In [ ]:
```
```