```
test_dir=r'C:\Users\praveen\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation_
System For Disease Prediction\Dataset Plant Disease\fruit-dataset\fruit-dataset\test'
                                                                                    In [47]:
import tensorflow as tf
from tensorflow import keras
from tensorflow.keras.preprocessing.image import ImageDataGenerator
                                                                                    In [48]:
model =
tf.keras.models.load_model(r'C:\Users\praveen\Desktop\FILES\data_for_ibm\Fertilizers_Recom
mendation System For Disease Prediction\Dataset Plant Disease\fruitdata.h5')
                                                                                    In [49]:
test datagen 1=ImageDataGenerator(rescale=1)
test_generator_1=test_datagen_1.flow_from_directory(
  test dir,
  target_size=(128,128),
  batch size=20,
  class_mode='categorical'
Found 1686 images belonging to 6 classes.
                                                                                    In [50]:
import numpy as np
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
                                                                                    In [51]:
img=image.load_img(r"C:\Users\praveen\Desktop\FILES\data_for_ibm\Fertilizers_Recommend
ation_System_For_Disease_Prediction\Dataset Plant Disease\fruit-dataset\fruit-
dataset\train\Corn_(maize)___healthy\9faacf6a-f638-435a-8994-f1418b332199____R.S_HL 8102
copy 2.jpg")
                                                                                    In [52]:
img
                                                                                   Out[52]:
                                                                                    In [55]:
img=image.load_img(r"C:\Users\praveen\Desktop\FILES\data_for_ibm\Fertilizers_Recommend
ation System For Disease Prediction\Dataset Plant Disease\fruit-dataset\fruit-
dataset\train\Corn_(maize)___healthy\9faacf6a-f638-435a-8994-f1418b332199___R.S_HL 8102
copy 2.jpg",target_size=(128,128))
x=image.img_to_array(img)
x=np.expand_dims(x,axis=0)
```

y=np.argmax(model.predict(x),axis=1)	
index=['AppleBlack_rot', 'Applehealthy', 'Corn_(maize)healthy',	
'Corn_(maize)Northern_Leaf_Blight', 'PeachBacterial_spot', 'Peachhealthy']	
index[y[0]]	
1/1 [======] - 0s 57ms/step	
- I	ut[55]:
'Corn_(maize)Northern_Leaf_Blight'	
	[n [56]:
model.evaluate(test_generator_1,steps=50)	
50/50 [====================================	acv.
0.6220	acy.
	ut[56]:
[1036.1376953125, 0.621999979019165]	
[20000120, 00022555555500]	In [ ]:
	[ ].
	In [ ].
	In [ ]:
	In [ ]: