```
In (46):
          test_dir=r'C:\Users\maris_q3mm6nk\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation_System_For_Disease_Prediction\Dataset Plant Disease\fruit-da
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\maris q3mm6nk\Desktop\FILES\data for ibm\Fertilizers Recommendation System For Disease Prediction\Data
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 no
          from tensorflow.keras.models import load model
          from tensorflow.keras.preprocessing import image
In [51]
          img-image.load img(r"C:\Users\maris q3mm6nk\Desktop\FILES\data for ibm\Fertilizers Recommendation System For Disease Prediction\Dataset Plant Diseas
```

Out[52]

```
img-image.load_img(r"C:\Users\maris_q3mm6nk\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation_System_For_Disease_Prediction\Dataset Plant Diseas
```

1/1 [------ --- --- --- --- --- --- - 0s 57ms/step

'Corn_(maize)__Northern_Leaf_Blight'

Out[56]: [1036.1376953125, 0.621999979019165]

model.evaluate(test_generator_1, steps=50)

```
In [55]:
         x-image.img_to_array(img)
         x-np.expand_dims(x,axis-0)
         y=np.argmax(model.predict(x),axis=1)
          index-['Apple Black rot', 'Apple healthy', 'Corn (maize) healthy', 'Corn (maize) Northern Leaf Blight', 'Peach Bacterial spot', 'Peach hea
          index[y[8]]
```

In [52]:

Out[52]:

Out[55]:

In [56]: