```
In [1]:   test_dir=r'C:\Users\maris_q3mm6nk\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation_ System_For_Disease_ Prediction\Dataset Plant Disease\Veg-data

In [2]:   import tensorflow as tf
          from tensorflow import keras
          from tensorflow.keras.preprocessing.image import ImageDataGenerator

In [3]:   model = tf.keras.models.load_model(r'C:\Users\maris_q3mm6nk\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation_ System_For_Disease_ Prediction\Data

In [4]:   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 3416 images belonging to 9 classes.

In [5]:   import numpy as np
          from tensorflow.keras.models import load_model
          from tensorflow.keras.preprocessing import image

In [6]:   img=image.load_img(r"C:\Users\maris_q3mm6nk\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation_ System_For_Disease_ Prediction\Dataset Plant Diseas

In [7]:   img
```

In [7]: `img`

Out[7]:

In [8]:
```python
img=image.load_img(r"C:\Users\maris_q3mm6nk\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation_ System_For_Disease_ Prediction\Dataset Plant Diseas
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[0]]
```

```
1/1 [==============================] - 0s 172ms/step
```

Out[8]: `'Peach___healthy'`

In [9]:
```python
model.evaluate(test_generator_1,steps=50)
```

```
50/50 [==============================] - 5s 103ms/step - loss: 2.1039 - accuracy: 0.1890
```

Out[9]: `[2.103949785232544, 0.1889999955892563]`