test\_dir**=**r'C:\Users\VENGAT\Desktop\Data\Dataset Plant Disease\Veg-dataset\Veg-dataset\test\_set'

In [43]:

**import** tensorflow **as** tf

**from** tensorflow **import** keras

**from** tensorflow.keras.preprocessing.image **import** ImageDataGenerator

In [44]:

model **=** tf**.**keras**.**models**.**load\_model(r'C:\Users\VENGAT\vegetabledata.h5')

In [45]:

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 [61]:

**import** numpy **as** np

**from** tensorflow.keras.models **import** load\_model

**from** tensorflow.keras.preprocessing **import** image

In [62]:

img**=**image**.**load\_img(r"C:\Users\VENGAT\Desktop\Data\Dataset Plant Disease\Veg-dataset\Veg-dataset\test\_set\Potato\_\_\_Early\_blight\b7157976-61c2-4366-87c5-e3de23aa7c10\_\_\_RS\_Early.B 7227.jpg")

In [63]:

img

Out[63]:



In [66]:

img**=**image**.**load\_img(r"C:\Users\VENGAT\Desktop\Data\Dataset Plant Disease\Veg-dataset\Veg-dataset\test\_set\Potato\_\_\_Early\_blight\b7157976-61c2-4366-87c5-e3de23aa7c10\_\_\_RS\_Early.B 7227.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**=**['Apple\_\_\_Black\_rot', 'Apple\_\_\_healthy', 'Corn\_(maize)\_\_\_healthy', 'Corn\_(maize)\_\_\_Northern\_Leaf\_Blight', 'Peach\_\_\_Bacterial\_spot', 'Peach\_\_\_healthy']

1/1 [==============================] - 0s 266ms/step

In [67]:

model**.**evaluate(test\_generator\_1,steps**=**50)

50/50 [==============================] - 76s 1s/step - loss: 2357.2993 - accuracy: 0.3710

Out[67]:

[2357.29931640625, 0.3709999918937683]