


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

In [ ]: model=load_model(r"/content/fruits.H5")

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

In [ ]: img=image.load_img(r"/content/drive/MyDrive/Dataset/Dataset Plant Disease/fruits-dataset/test/peach___Bacterial_spot/002ed08-b0d3-474c-b
In [ ]: img

Out [ ]: 
```

```
In [ ]: x=image.img_to_array(img)
        x=np.expand_dims(x,axis=0)

In [ ]: pred=(model.predict(x) > 0.5).astype("int32")

1/1 [=====] - 0s 103ms/step

In [ ]: pred

Out [ ]: array([[0, 0, 0, 0, 1, 0]], dtype=int32)

In [ ]: x_test_class_indices

Out [ ]: {'Apple_Blight_rot': 0,
         'Apple_healthy': 1,
```

```
ing=image.load_img(r"content/drive/MyDrive/DataSet/Dataset Plant Disease/fruit-dataset/fruit-dataset/test/Peach___Bacterial_spot/802edd0-b6b3-474c-b1-100000000000.jpg")
x=image.img_to_array(ing)
x=np.expand_dims(x,axis=0)
y=np.argmax(model.predict(x),axis=1)
label=['Apple___Black_rot', 'Apple___healthy', 'Corn_(maize)___healthy', 'Corn_(maize)___Northern_Leaf_Blight', 'Peach___Bacterial_spot', 'Peach___healthy']
index[y[0]]

1/1 [=====] - 0s 24ms/step
['Peach___Bacterial_spot']
```