```
from google.colab import drive
drive.mount('/content/drive')

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

import numpy as np
import tensorflow as tf
import matplotlib.pyplot as plt

#load our model
cnn = tf.keras.models.load_model('/content/trained_model (1).h5')

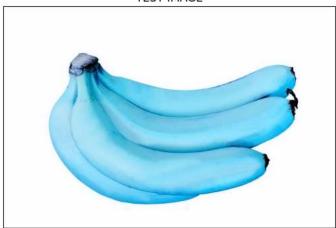
#performing prediction on single image

import cv2
image_path= '/content/drive/MyDrive/test/banana/Image_10.jpg'
img= cv2.imread(image_path)
plt.imshow(img)
plt.title("TEST IMAGE")
plt.title("TEST IMAGE")
plt.title("TEST IMAGE")
plt.title("TEST IMAGE")
```



plt.yticks([])
plt.show()

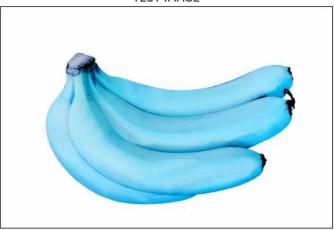
## **TEST IMAGE**



#testing model

```
test_set= tf.keras.utils.image_dataset_from_directory('/content/drive/MyDrive/test',
labels='inferred',
label_mode='categorical',
class_names=None,
color_mode='rgb',
batch_size=32,
image_size=(64, 64),
shuffle=True,
seed=None,
validation_split=None,
subset=None,
interpolation='bilinear',
follow_links=False,
crop_to_aspect_ratio=False
     Found 359 files belonging to 36 classes.
test_set.class_names
     ['apple',
       'banana',
      'beetroot',
      'bell pepper',
      'cabbage',
'capsicum',
      'carrot',
      'cauliflower',
      'chilli pepper',
      'corn',
      'cucumber',
       'eggplant',
       'garlic',
      'ginger',
       'grapes',
      'jalepeno',
      'kiwi',
'lemon',
      'lettuce',
       'mango',
       'onion',
      'orange',
       'paprika',
      'pear',
'peas',
       'pineapple',
       'pomegranate',
      'potato',
'raddish',
      'soy beans',
      'spinach',
       'sweetcorn',
       'sweetpotato',
      'tomato',
      'turnip',
      'watermelon']
result_index= np.where(predictions[0]== max(predictions[0]))
print(result_index[0][0])
plt.imshow(img)
plt.title("TEST IMAGE")
plt.xticks([])
plt.yticks([])
plt.show()
```

## **TEST IMAGE**



#single prediction
print("It's a {}".format(test\_set.class\_names[result\_index[0][0]]))

It's a banana