UNZIP THE FILE

```
[ ] from google.colab import drive drive mount, call drive.mount("/content/drive", force_remount-True).

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

**Content/drive/MyOrive/Colab Notebooks/TRAIN_SET.zip"

Dearchive: /content/drive/MyOrive/Colab Notebooks/TRAIN_SET.zip

replace TRAIN_SET/APPLES/1300.jpg { lyes, n|n, {A}ll, n|noe, r|nename: n
replace TRAIN_SET/APPLES/1300.jpg { y|es, n|n, {A}ll, n|noe, r|nename: a
replace TRAIN_SET/APPLES/1300.jpg { y|es, n|n, {A}ll, n|noe, r|nename: y
inflating: TRAIN_SET/APPLES/1300.jpg { y|es, n|n, {A}ll, n|noe, r|nename: A
inflating: TRAIN_SET/APPLES/1300.jpg { y|es, n|n, {A}ll, n|noe, r|nename: A
inflating: TRAIN_SET/APPLES/1300.jpg
inflating: TRAIN_SET/AP
```

```
■ INTERLUPE: IDRAIN_SET/ORMNEE/_ 313_380_jpg
inflating: IRANI_SET/ORMNEE/_ 313_380_jpg
inflating: IRANI_SET/ORMNEE/_ 313_380_jpg
inflating: IRANI_SET/ORMNEE/_ 316_380_jpg
inflating: IRANI_SET/ORMNEE/_ 316_380_jpg
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inflating: IRANI_SET/ORMNEE/_ 318_380_jpg
inflating: IRANI_SET/ORMNEE/_ 319_380_jpg
inflating: IRANI_SET/ORMNEE/_ 319_380_jpg
inflating: IRANI_SET/ORMNEE/_ 310_jpg
inflating: IRANI_SET/ORMNEE/_ 310_jpg
inflating: IRANI_SET/ORMNEE/_ 310_jpg
inflating: IRANI_SET/ORMNEE/_ 310_jpg
inflating: IRANI_SET/PHEAPPLE/_ 100_jpg
inflating: IRANI_SET/PHEAPPLE/
```

SEPARATE THE TEST AND TRAIN SET

```
Found 2026 image-lange-dataGenerator (rescale-1./255, shear_range-0.2, zoom_range-0.2, horizontal_flip-True)

**Extra in-train_datagen-lange-dataGenerator(rescale-1./255)

**Extra in-train_datagen-lange-dataGenerator(rescale-1./255)

**Extra in-train_datagen-lange-dataGenerator(rescale-1./255)

**Extra in-train_datagen-lange-dataGenerator(rescale-1./255)

**Extra in-train_datagen-flow_from_directory(

**In-datagen-lange-dataGenerator(rescale-1./255)

**Extra in-datagen-flow_from_directory(
```

```
[ ] print(x_train.class_indices)

{'APPLES': 0, 'BANANA': 1, 'ORANGE': 2, 'PINEAPPLE': 3, 'WATERMELON': 4}

[] print(x_test.class_indices)

{'APPLES': 0, 'BANANA': 1, 'ORANGE': 2, 'PINEAPPLE': 3, 'WATERMELON': 4}

[] from collections import Counter as c
c(x_train.labels)

Counter({0: 606, 1: 445, 2: 479, 3: 621, 4: 475})

* Importing Neocesarry Libraries

[] import numpy as np
import tensorflow. keras.models import Sequential
from tensorflow.keras.models import Lowers
from tensorflow.keras.import layers
from tensorflow.keras.layers import Lowes,Flatten
from tensorflow.keras.layers import Conv2D,MaxPooling2D,Dropout
from keras.preprocessing.image import ImageDataGenerator
```

INITIALIZING & CREATING THE MODEL



odel: "sequential_1"				
	Output Shape	Param #		
conv2d (Conv2D)	(None, 62, 62, 32)	896		
max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)			
:onv2d_1 (Conv2D)	(None, 29, 29, 32)	9248		
max_pooling2d_1 (MaxPooling 2D)	(None, 14, 14, 32)			
	(None, 6272)			
iense (Dense)	(None, 128)	802944		
dense_1 (Dense)	(None, 5)	645		
otal params: 813,733 rainable params: 813,733 on-trainable params: 0				

COMPILING & FITTING THE MODEL

SAVING THE MODEL & PREDICTING THE RESULTS

