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

Mounted at /content/drive

!unzip '/content/drive/MyDrive/fruits.zip'

```
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_105.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_109.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_113.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_117.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_121.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_125.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_129.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_13.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_133.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 137.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 141.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_145.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 149.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_153.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_157.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_161.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_165.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_169.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_17.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_173.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_177.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 181.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_185.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_189.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_193.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_197.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 201.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_205.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_209.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 21.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_213.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 217.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 221.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_225.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 229.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_233.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_237.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 241.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 245.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_249.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 25.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_253.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_257.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 261.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_265.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_269.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_273.jpg
inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 277.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_281.jpg
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_285.jpg
inflating: famite 200 amiginal cita//alidation/amachini dam/ 1/m0 200 ing
```

intiating: truits-שמכ-originai-size/validation/zuccnini dark ווחדומדוחק; truits-שמכ מיון מאר מון איי מון איי מון איי

```
inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_29.jpg
       inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_293.jpg
       inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_297.jpg
       inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_301.jpg
       inflating: fruits-360-original-size/Validation/zucchini dark 1/r0 305.jpg
       inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_309.jpg
       inflating: fruits-360-original-size/Validation/zucchini_dark_1/r0_313.jpg
# Import necessary library
from tensorflow.keras.preprocessing.image import ImageDataGenerator
# Data augmentation on training variable
train_datagen = ImageDataGenerator(rescale=1./255,
                                   zoom_range=0.2,
                                   horizontal_flip=True)
# Data augmentation on testing variable
test_datagen = ImageDataGenerator(rescale=1./255)
xtrain = train_datagen.flow_from_directory('/content/fruits-360-original-size/Training',
                                           target_size=(64,64),
                                           class_mode='categorical',
                                           batch_size=100)
     Found 6231 images belonging to 24 classes.
xtest = test_datagen.flow_from_directory('/content/fruits-360-original-size/Test',
                                         target_size=(64,64),
                                         class_mode='categorical',
                                         batch size=100)
     Found 3110 images belonging to 24 classes.
print(xtrain.class indices)
     {'apple_6': 0, 'apple_braeburn_1': 1, 'apple_crimson_snow_1': 2, 'apple_golden_1': 3,
print(xtest.class indices)
     {'apple_6': 0, 'apple_braeburn_1': 1, 'apple_crimson_snow_1': 2, 'apple_golden_1': 3,
```