Image Preprocessing

https://drive.google.com/file/d/1IQXRB9aHA1mOkS8uh1K OuRfMxT96A41s/view?usp=share_link

#Import The ImageDataGenerator Library:

Import required lib from tensorflow.keras.preprocessing.image import ImageDataGenerator

#Configure ImageDataGenerator Class :

#Creating augmentation on training variable

```
train_datagen = ImageDataGenerator(rescale=1./255,
                    zoom_range=0.2, horizontal_flip=True)
```

Creating augmentation on testing variable test_datagen

```
= ImageDataGenerator(rescale=1./255)
```

#Apply ImageDataGenerator Functionality To Trainset And Testset :

For Body Damage:
```
# Passing training data to train variable for body
xtrain = train_datagen.flow_from_directory('/content/damage vehicle/body/training',
                    target_size=(224,224),
                    class_mode='categorical',
                    batch_size=10)
```

```
# Passing testing data to test variable for body
xtest = test_datagen.flow_from_directory('/content/damage vehicle/body/validation',
                    target_size=(224,224),
                    class_mode='categorical',
                    batch_size=10)
```

For Level Damage:

```
# Passing training data to train variable for body
x_train = train_datagen.flow_from_directory('/content/damage vehicle/level/training',
                    target_size=(224,224),
                    class_mode='categorical',
                    batch_size=10)
```

```
# Passing training data to test variable for body
x_test = test_datagen.flow_from_directory('/content/damage vehicle/level/validation',
```

```
target_size=(224,224),
class_mode='categorical', batch_size=10)
```