Image Pre-Processing

Date	11 NOVEMBER 2022
Team ID	PNT2022TMID00886
Project Name	Intelligent Vehicle Damage Assessment & Cost Estimator for Insurance Companies

Import The ImageDataGenerator Library:

```
[18] from keras.preprocessing.image import ImageDataGenerator
```

Configure ImageDataGenerator Class:

```
[19] train_datagen = ImageDataGenerator(rescale= 1./255,shear_range = 0.2,zoom_range = 0.2,horizontal_flip = True,vertical_flip = True)

[20] val_datagen = ImageDataGenerator(rescale= 1./255)
```

Apply ImageDataGenerator Functionality To Trainset And Testset:

For Body Damage:

```
[23] training_set = train_datagen.flow_from_directory(r"/content/drive/MyDrive/IBM PROJECT/Car damage/body/training",target_size = (224,224),  class_mode = "categorical",batch_size = 10)
     test_set = val_datagen.flow_from_directory(r"/content/drive/MyDrive/IBM PROJECT/Car damage/body/validation",target_size = (224,224),  class_mode = "categorical",batch_size = 10)

     Found 979 images belonging to 3 classes.
     Found 171 images belonging to 3 classes.
```

For the level of Damage:

```
[24] training_set = train_datagen.flow_from_directory(r"/content/drive/MyDrive/IBM PROJECT/Car damage/level/training",target_size = (224,224),  class_mode = "categorical",batch_size = 10)
     test_set = val_datagen.flow_from_directory(r"/content/drive/MyDrive/IBM PROJECT/Car damage/level/validation",target_size = (224,224),  class_mode = "categorical",batch_size = 10)

     Found 979 images belonging to 3 classes.
     Found 171 images belonging to 3 classes.
```