Date	12 November 2022
TeamID	PNT2022TMID16910
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance companies.
MaximumMarks	4 Marks

#Import The ImageDataGenerator Library:

Import required lib

fromtensorflow.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

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  \begin{aligned} x\_test &= test\_datagen.flow\_from\_directory('/content/damage \ vehicle/level/validation', \\ & target\_size=(224,224), \\ & class\_mode='categorical', \\ & batch\_size=10) \end{aligned}
```