<p align="center">**PROJECT DEVELOPMENT PHASE**
SPRINT-II</p>

Date	10 November 2022
TeamID	PNT2022TMID30946
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance companies.
MaximumMarks	4 Marks

Image Pre-processing

#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)
```

```python
# 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)
```