Sprint 1

import The Library

```
In [ ]:  from keras.preprocessing.image import ImageDataGenerator
```

Parameters for ImageDataGenerator

```
In [ ]:  train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)
         test_datagen=ImageDataGenerator(rescale=1./255)
```

Applying ImageDataGenerator functionality to trainset and testset

For body damage

```
In [ ]:  xtrain=train_datagen.flow_from_directory('/content/drive/MyDrive/Car_damage/body/training',
                                                  target_size=(64,64),
                                                  class_mode='categorical',
                                                  batch_size=32)
         xtest=test_datagen.flow_from_directory('/content/drive/MyDrive/Car_damage/body/validation',
                                                  target_size=(64,64),
                                                  class_mode='categorical',
                                                  batch_size=32)
```

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

For the level of damage

```
In [ ]:  xtrain=train_datagen.flow_from_directory('/content/drive/MyDrive/Car_damage/level/training',
                                                  target_size=(64,64),
                                                  class_mode='categorical',
                                                  batch_size=32)
         xtest=test_datagen.flow_from_directory('/content/drive/MyDrive/Car_damage/level/validation',
                                                  target_size=(64,64),
                                                  class_mode='categorical',
                                                  batch_size=32)
```

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

Loading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js