Image Pre-processing

Apply Image Data Generator Functionality to train and test set

Team ID	PNT2022TMID29664
Project Name	Real -Time Communication System Powered by AI for specially abled

Image Preprocessing

Import ImageDataGenerator Library And Configure It

```
In [1]: from tensorflow.keras.preprocessing.image import ImageDataGenerator
```

```
In [2]: train_datagen=ImageDataGenerator(rescale=1./255,horizontal_flip=True,vertical_flip=True,zoom_range=0.2)
```

```
In [3]: test_datagen=ImageDataGenerator(rescale=1./255)
```

Apply ImageDataGenerator Functionality To Train And Test Set

```
In [4]: x_train=train_datagen.flow_from_directory(r"C:\Users\rajes\Desktop\Dataset\training_set",target_size=(64,64
                                                   class_mode="categorical",batch_size=30)
```

Found 15750 images belonging to 9 classes.

```
In [5]: x_test=test_datagen.flow_from_directory(r"C:\Users\rajes\Desktop\Dataset\test_set",target_size=(64,64),
                                                 class_mode="categorical",batch_size=30)
```

Found 2250 images belonging to 9 classes.