Date	19 November 2022
Team ID	PNT2022TMID46034
Project Name	Natural Disasters Intensity Analysis and Classification using Artificial Intelligence

Import the image Data Generator Library

data augmentation

```
[ ]  # import necessarylib.
     from tensorflow.keras.preprocessing.image import ImageDataGenerator

[ ]  #image Data Agumentation

     #setting parameter for Image Data agumentation to the traing data

     train_datagen = ImageDataGenerator (rescale=1./255, shear_range=0.2,zoom_range=0.2, horizontal_flip=T

     #Image Data agumentation to the testing data
     test_datagen=ImageDataGenerator(rescale=1./255)

[ ]  #Loading our data and performing data agumentation
     #performing data agumentation to train data

     x_train = train_datagen.flow_from_directory('/content/dataset/train_set',target_size=(64, 64), batch_

     #performing data agumentation to test data

     x_test = test_datagen.flow_from_directory('/content/dataset/test_set',target_size=(64, 64), batch_siz
```

```
 Found 742 images belonging to 4 classes.
 Found 198 images belonging to 4 classes.
```