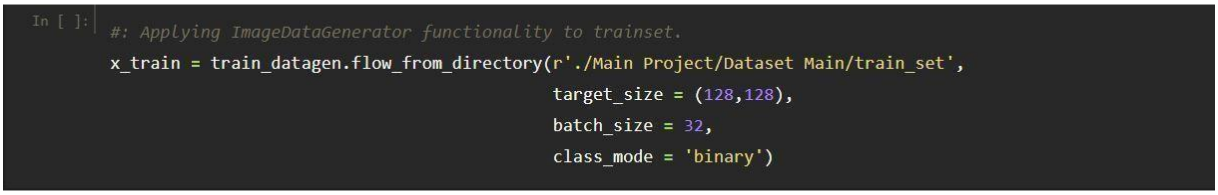
PROJECT TITLE	**EMDFGING METHODS FOR EARLY DETECTION OF FOREST FIRES**
TEAM MEMBERS	**Yaswanth P** **Parthiban M** **Syed Adaan** **Syed aakifz**

Applying ImageDataGenerator Functionality To Trainset And Testset

The ImageDataGenerator class has three methods **flow ( ), flow_from_directory ( ), and flow_from_dataframe ( )** to read the images from a big numpy array and folders containing images.

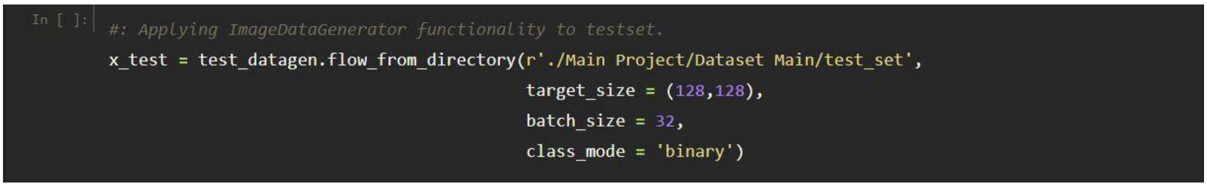
flow_from_directory ( ) expects at least one directory under the given directory path.

Task1: Apply **flow_from_directory ( )** method for Train folder.



```
In [ ]: #: Applying ImageDataGenerator functionality to trainset.
        x_train = train_datagen.flow_from_directory(r'./Main Project/Dataset Main/train_set',
                                                    target_size = (128,128),
                                                    batch_size = 32,
                                                    class_mode = 'binary')
```

Task 2: Now will apply the **flow_from_directory ( )** method for test folder.



```
In [ ]: #: Applying ImageDataGenerator functionality to testset.
        x_test = test_datagen.flow_from_directory(r'./Main Project/Dataset Main/test_set',
                                                  target_size = (128,128),
                                                  batch_size = 32,
                                                  class_mode = 'binary')
```

- The directory must be set to the path where your training folders are present.
- The target_size is the size of your input images, every image will be resized to this size.
- batch_size: No. of images to be yielded from the generator per batch.
- “batch_size” in both train and test generators is to some number that divides your total number of images in your train set and train set respectively.
- class_mode: Set “binary” if you have only two classes to predict, if not set to “categorical”.