

Importing Keras libraries

```
import keras
```

Importing ImageDataGenerator from Keras

```
from matplotlib import pyplot as plt
```

```
from keras.preprocessing.image import ImageDataGenerator
```

Defining the Parameters

```
train_datagen=ImageDataGenerator(rescale=1./255, shear_range=0.2, rotation_range=180, zoom_range=0.2, horizontal_flip=True)
```

```
test_datagen=ImageDataGenerator(rescale=1./255)
```

Applying ImageDataGenerator functionality to train dataset

```
from google.colab import drive
```

```
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call

```
drive.mount("/content/drive", force_remount=True).
```

```
x_train=train_datagen.flow_from_directory('/content/drive/MyDrive/IBM  
PROJECT/dataset/DATA
```

```
SET/archive/Dataset/Dataset/train_set', target_size=(128,128), batch_size=32, class_mode='binary')
```

Found 436 images belonging to 2 classes.

Applying ImageDataGenerator functionality to test dataset

```
x_test=test_datagen.flow_from_directory('/content/drive/MyDrive/IBM PROJECT/dataset/DATA  
SET/archive/Dataset/Dataset/test_set', target_size=(128,128), batch_size=32, class_mode='binary')
```

Found 121 images belonging to 2 classes.