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

In [ ]:

```
# Training Datagen
train_datagen =
ImageDataGenerator(rescale=1/255,zoom_range=0.2,horizontal_flip=True,vertical
_flip=False)
# Testing Datagen
test_datagen = ImageDataGenerator(rescale=1/255)
```

In [ ]:

```
import tensorflow as tf
import os
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Dense, Conv2D, Flatten, Dropout,
MaxPooling2D
from tensorflow.keras.preprocessing.image import ImageDataGenerator
import numpy as np
import matplotlib.pyplot as plt
import IPython.display as display
from PIL import Image
import pathlib
```

In [ ]:

```
x_test=test_datagen.flow_from_directory('/content/drive/MyDrive/Nalaiyathiran
/Dataset/test_set',target_size=(64,64),batch_size=200,

class_mode='categorical',color_mode="grayscale")
```

In [ ]:

```
x_train=train_datagen.flow_from_directory('/content/drive/MyDrive/Nalaiyathir
an/Dataset/training_set',target_size=(64,64),batch_size=200,

class_mode='categorical',color_mode="grayscale")
```

Length of training set and test set

In [ ]:

```
a=len(x_train)
b=len(x_test)
```

In [ ]:

```
print(a)
```

In [ ]:

```
print(b)
```