

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_size
```

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