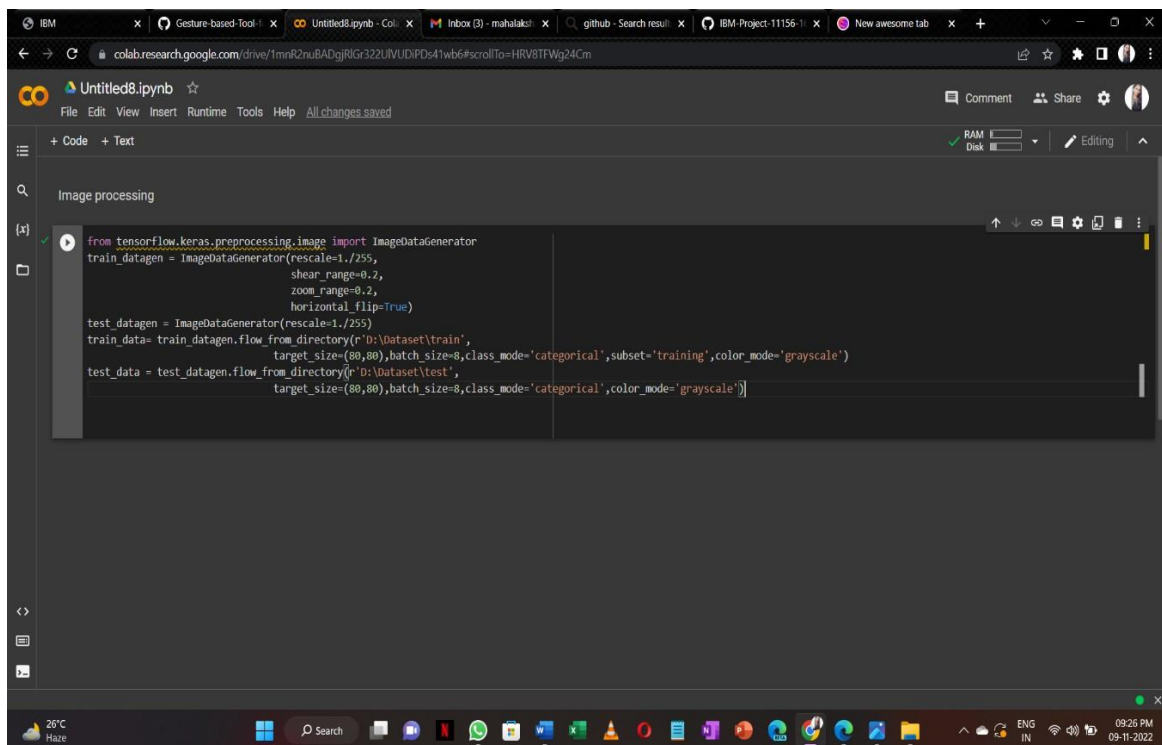


DATA COLLECTION – IMAGE PREPROCESSING

Date	10 November 2022
Team ID	PNT2022TMID29231
Project Name	Project - A Gesture-based Tool for Sterile Browsing of Radiology Images



The screenshot displays a Google Colab notebook titled 'Untitled8.ipynb'. The code is written in Python and focuses on image preprocessing using TensorFlow's Keras ImageDataGenerator. The training data is loaded from 'D:\Dataset\train' and the test data from 'D:\Dataset\test'. Both datasets are configured with a target size of (80, 80), a batch size of 8, and grayscale mode. The training data generator includes additional augmentations: rescaling to 1./255, shear range of 0.2, zoom range of 0.2, and horizontal flipping.

```
from tensorflow.keras.preprocessing.image import ImageDataGenerator
train_datagen = ImageDataGenerator(rescale=1./255,
                                   shear_range=0.2,
                                   zoom_range=0.2,
                                   horizontal_flip=True)
test_datagen = ImageDataGenerator(rescale=1./255)
train_data= train_datagen.flow_from_directory(r'D:\Dataset\train',
                                              target_size=(80,80),batch_size=8,class_mode='categorical',subset='training',color_mode='grayscale')
test_data = test_datagen.flow_from_directory(r'D:\Dataset\test',
                                              target_size=(80,80),batch_size=8,class_mode='categorical',color_mode='grayscale')]
```