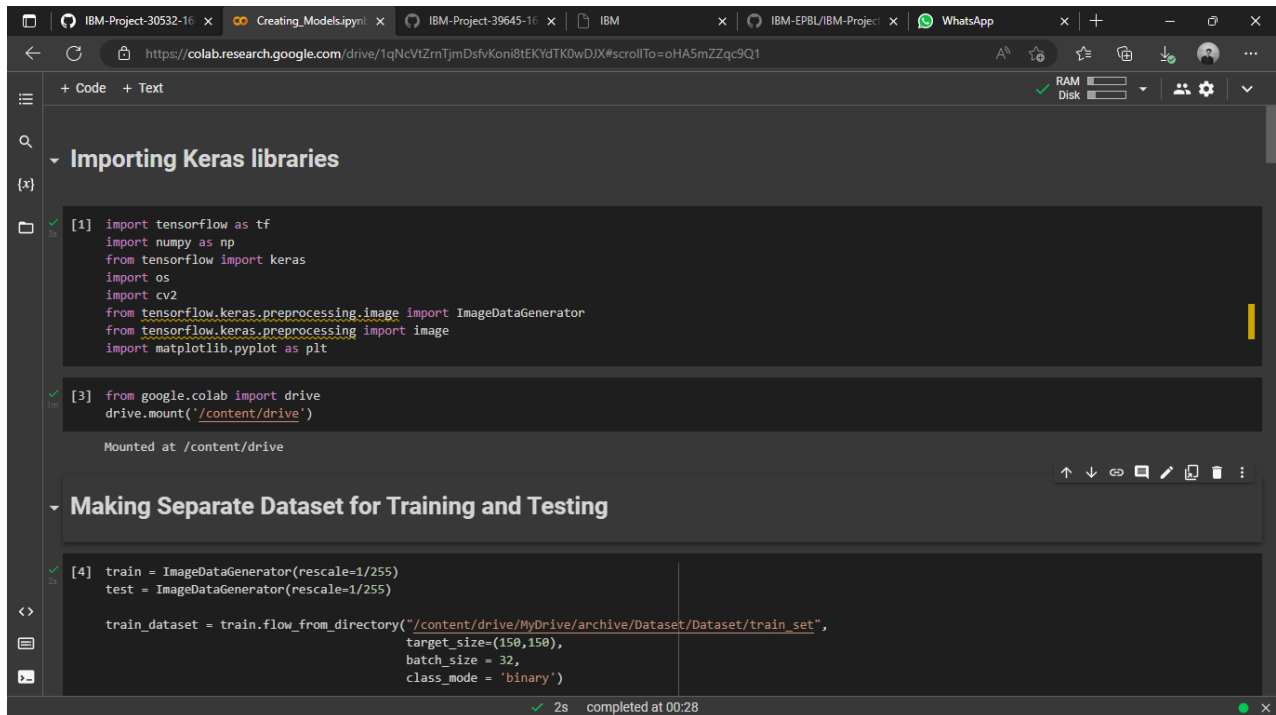


IMAGE PREPROCESSING

Importing The ImageDataGenerator Library

Team Id	PNT2022TMID45404
Project Name	Emerging Method For Early Detection Of Forest Fires



```
[1] import tensorflow as tf
import numpy as np
from tensorflow import keras
import os
import cv2
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.preprocessing import image
import matplotlib.pyplot as plt

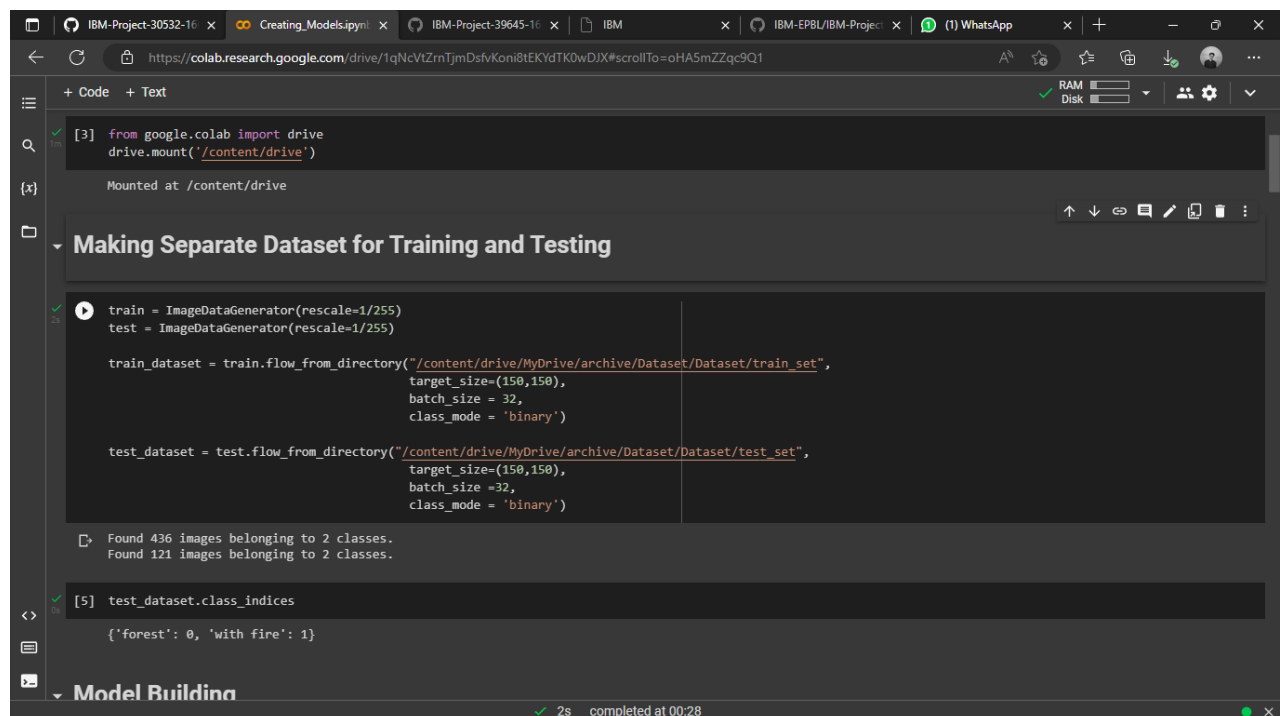
[3] from google.colab import drive
drive.mount('/content/drive')

Mounted at /content/drive

Making Separate Dataset for Training and Testing

[4] train = ImageDataGenerator(rescale=1/255)
test = ImageDataGenerator(rescale=1/255)

train_dataset = train.flow_from_directory("/content/drive/MyDrive/archive/Dataset/Dataset/train_set",
                                         target_size=(150,150),
                                         batch_size = 32,
                                         class_mode = 'binary')
```



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test_dataset = test.flow_from_directory("/content/drive/MyDrive/archive/Dataset/Dataset/test_set",
                                       target_size=(150,150),
                                       batch_size = 32,
                                       class_mode = 'binary')

Found 436 images belonging to 2 classes.
Found 121 images belonging to 2 classes.

[5] test_dataset.class_indices

{'forest': 0, 'with fire': 1}

Model Building
```