MODEL BUILDING

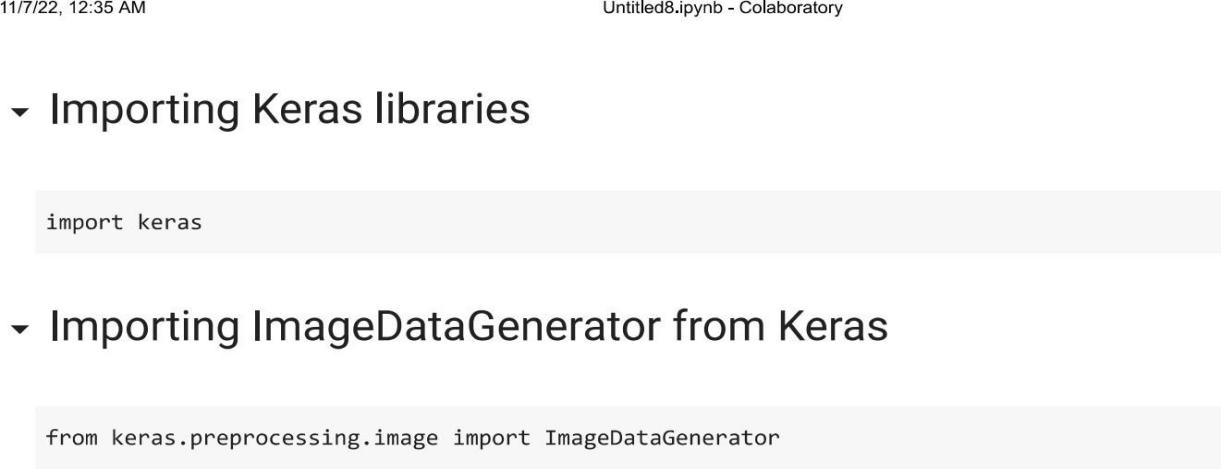
PREDICTIONS

|  |  |
| --- | --- |
| Team ID | PNT2022TMID03339 |
| Project Name | Early detection of forest fire using deeplearning |

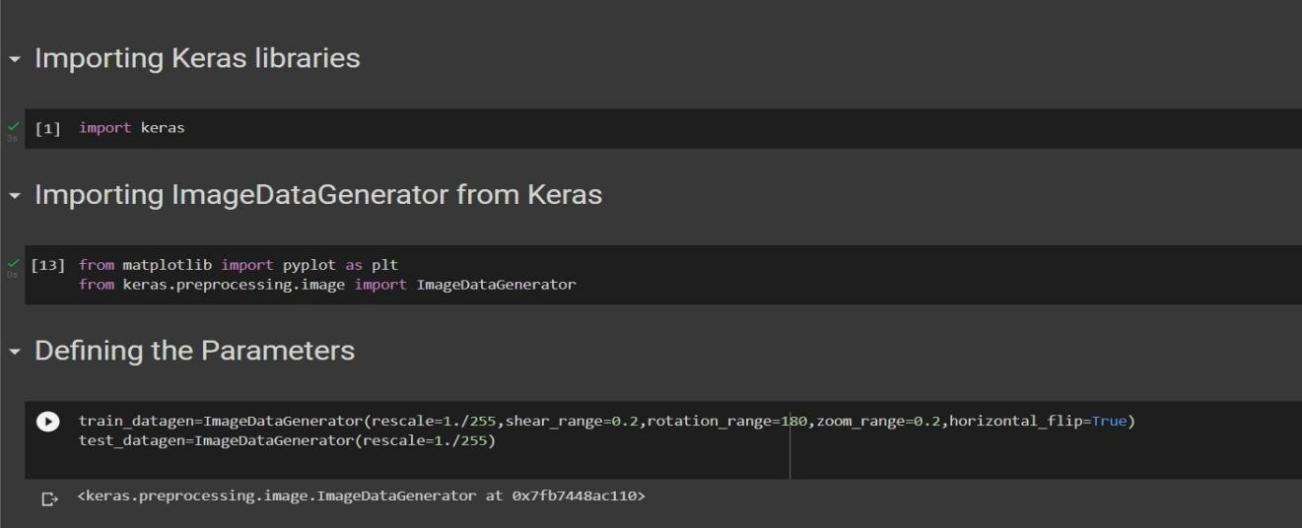
# PREDICTIONS:

The last and final step is to make use of our saved model to do predictions. For that we have a class in keras called load\_model. Load\_model is used to load our saved model h5 file (alert.h5).

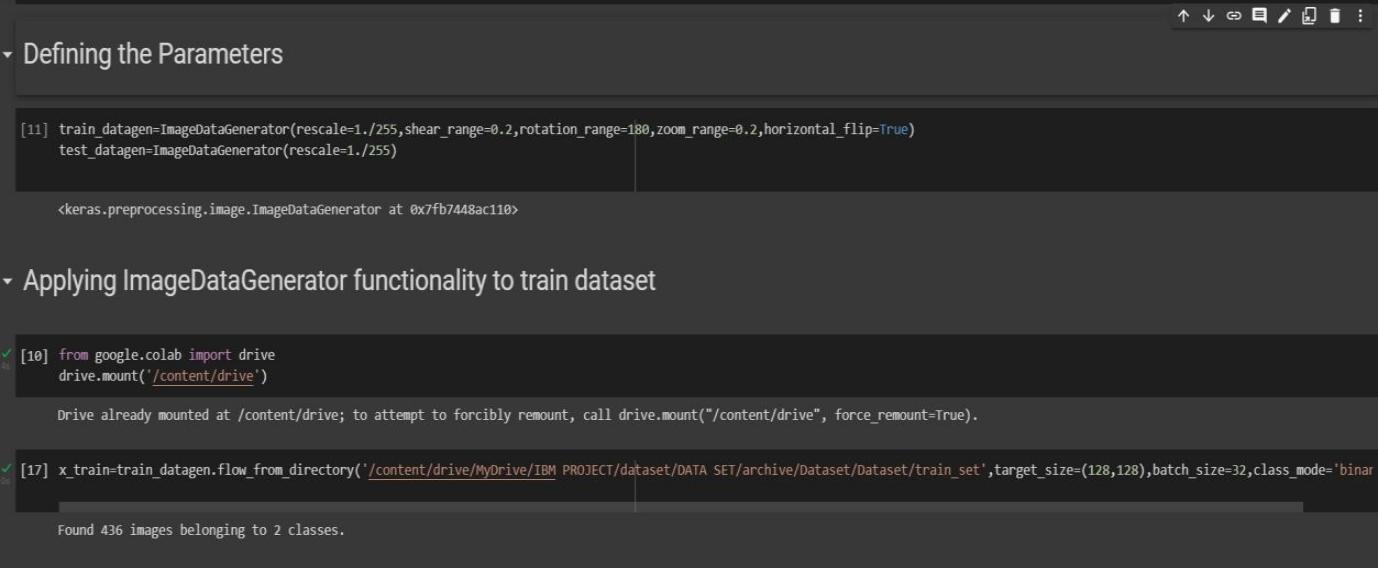
IMPORT LIBRARIES:



IMPORT ImageDataGenerator FROM KERAS:

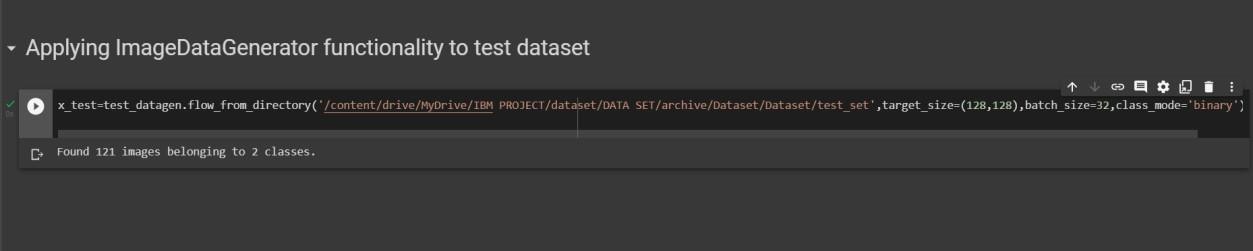


# APPLYING ImageDataGenerator to train dataset:

ply**flow\_from\_directory ( )**methodfor Train folder.

# APPLYING ImageDataGenerator to test dataset:

Applying the **flow\_from\_directory ( )** methodfortest folder.



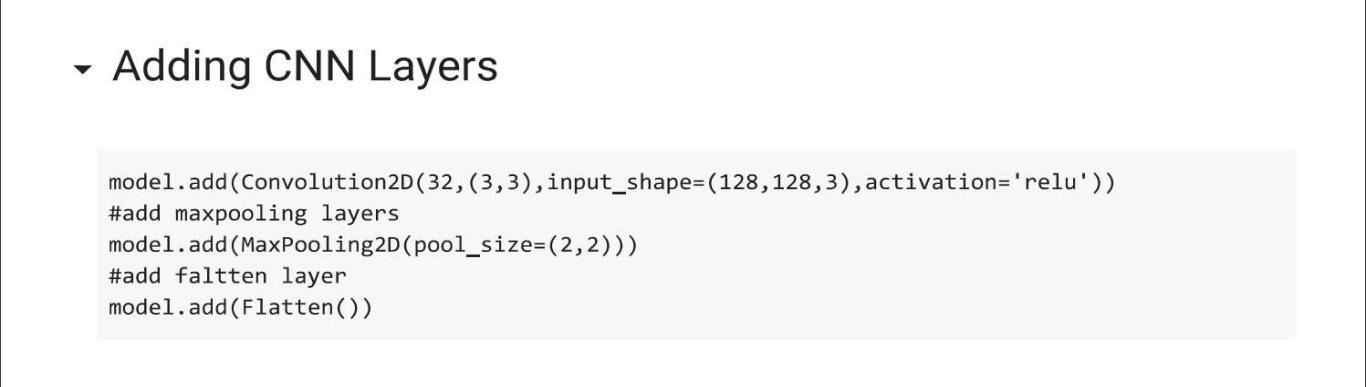
# IMPORTING MODEL BUILDING LIBRARIES:



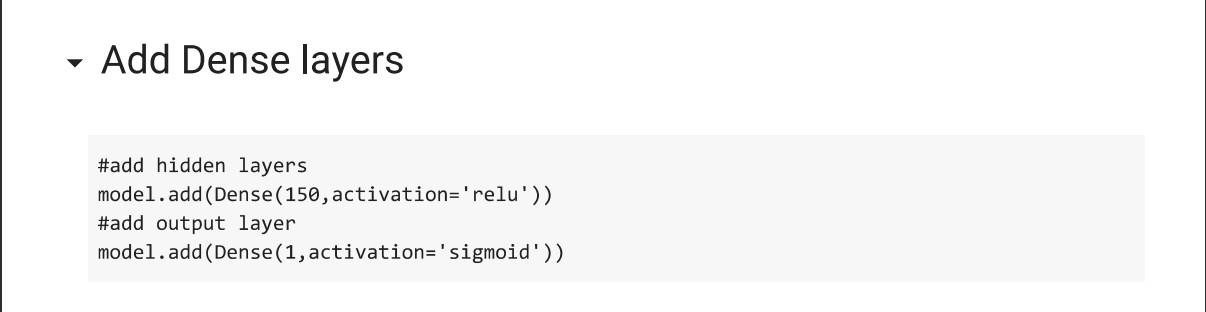
INITIALIZING THE MODEL:



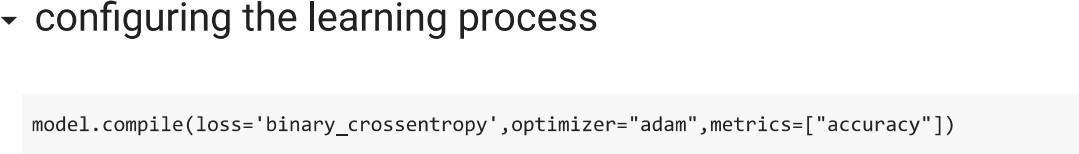
ADDING CNN LAYERS:



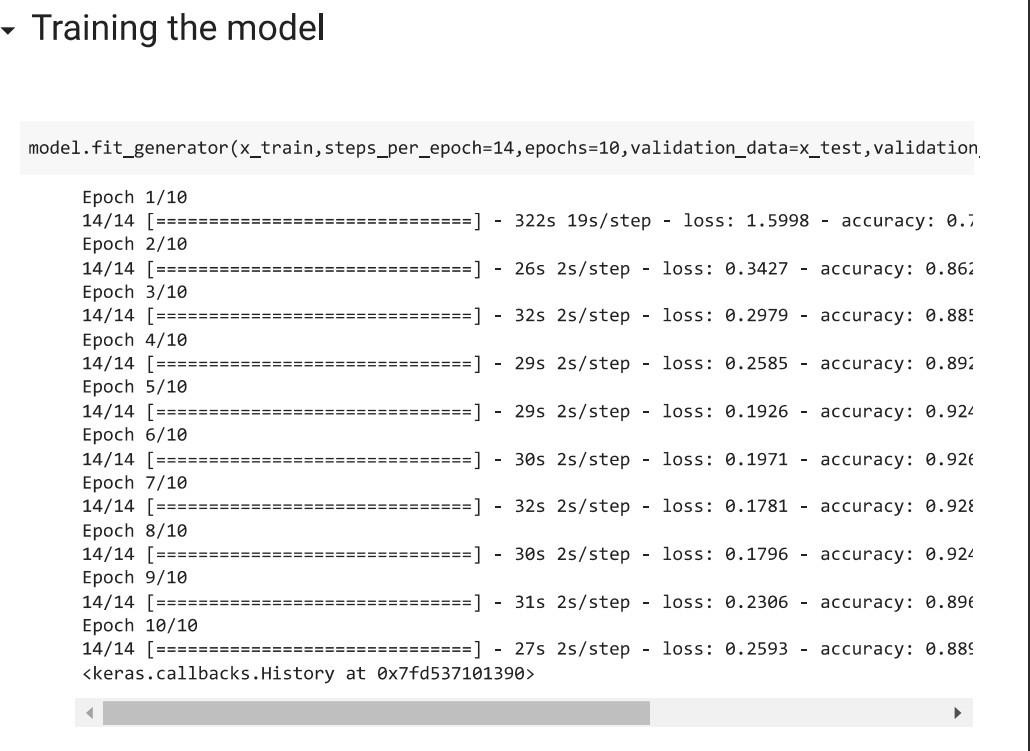
ADDING DENSE LAYERS:



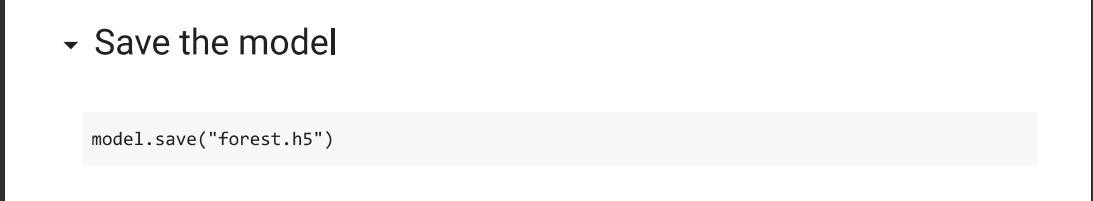
CONFIGURING THE LEARNING PROCESS:



TRAINING THE MODEL:



SAVE THE MODEL:



PREDICTIONS:



