**MODEL BUILDING**

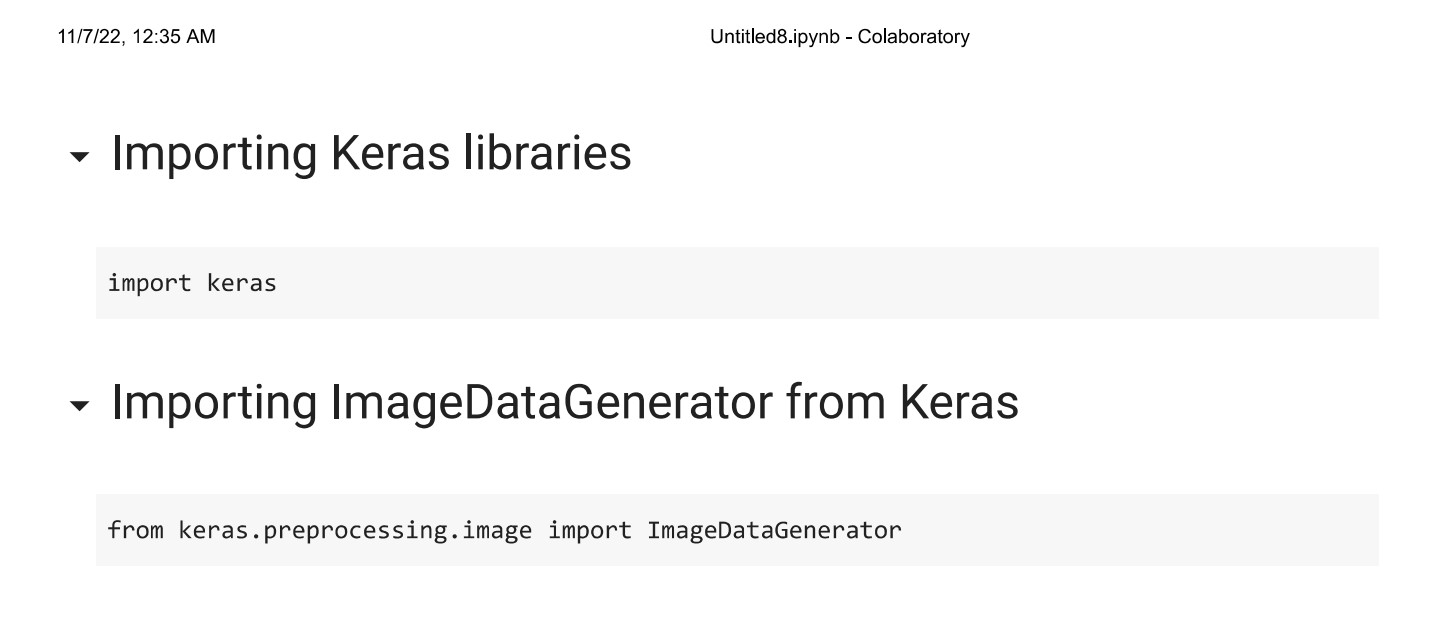
**PREDICTIONS**

|  |  |
| --- | --- |
| Team ID | PNT2022TMID14000 |
| Project Name | Project-Emerging methods for early detection of forest fires |

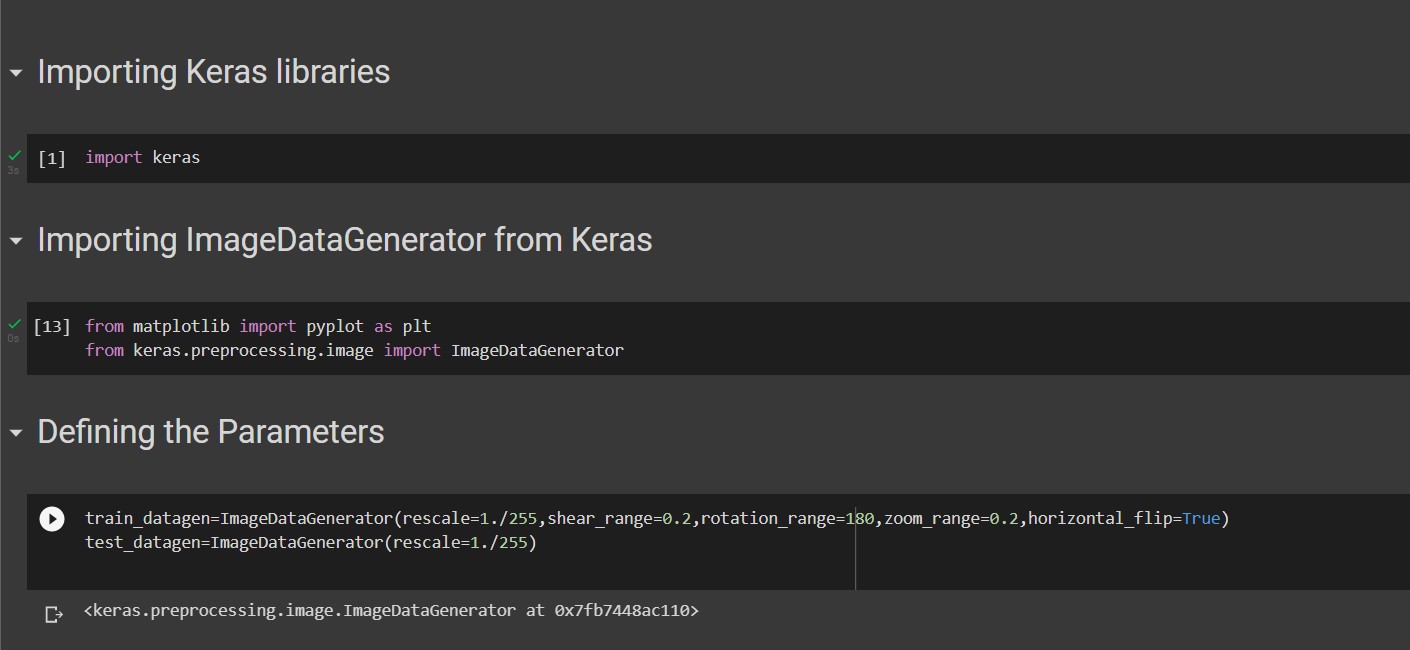
**PREDICTIONS:**

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:**



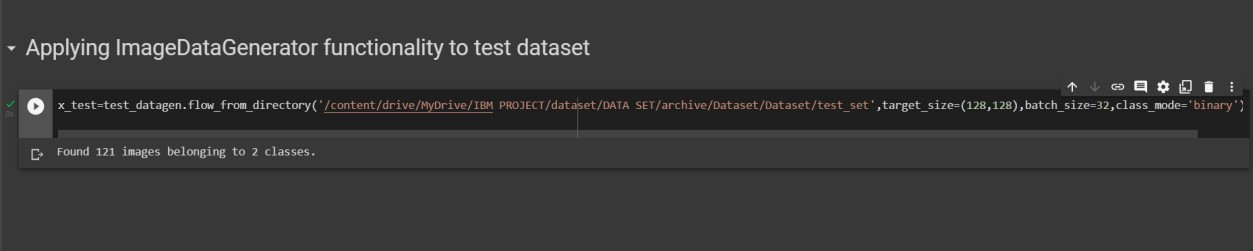
**APPLYING ImageDataGenerator to train dataset:**

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

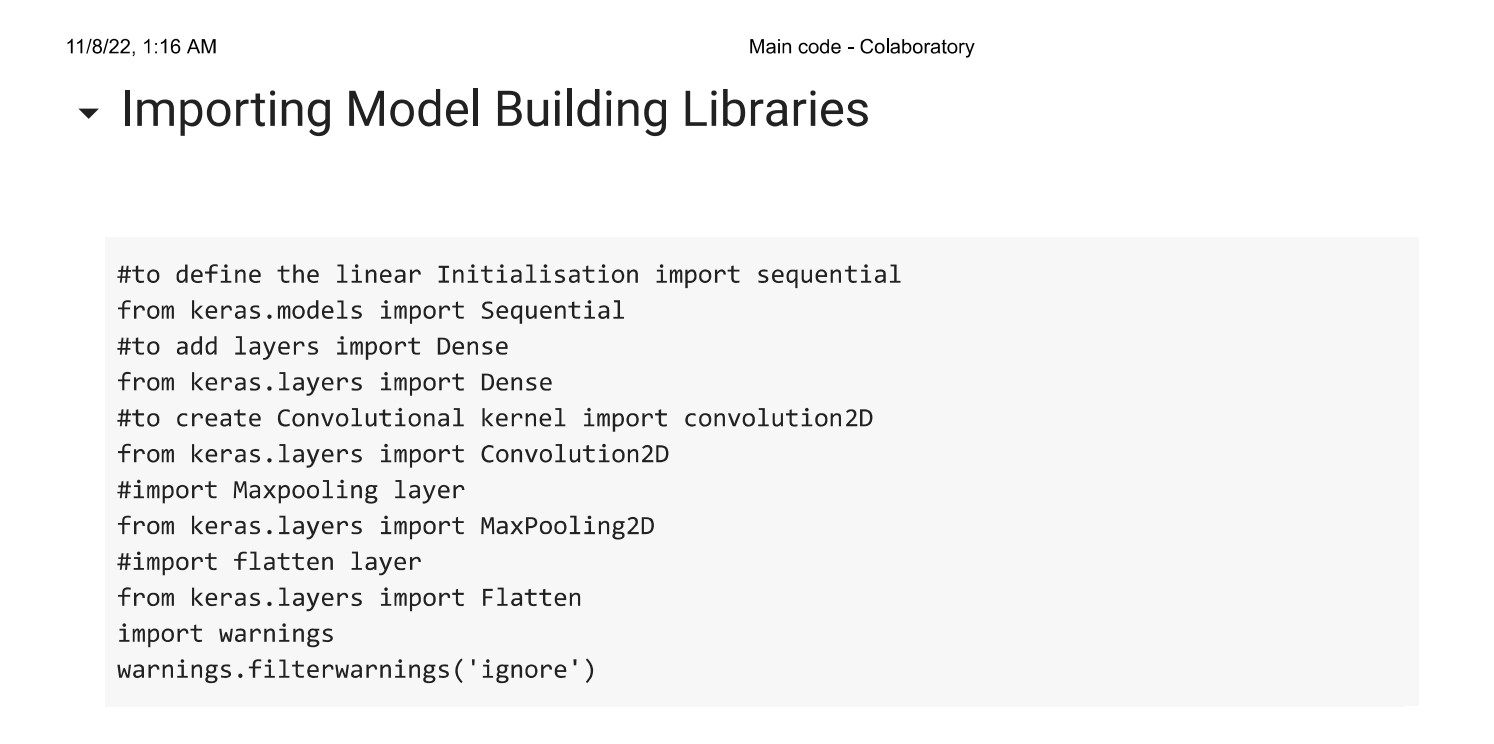


**APPLYING ImageDataGenerator to test dataset:**

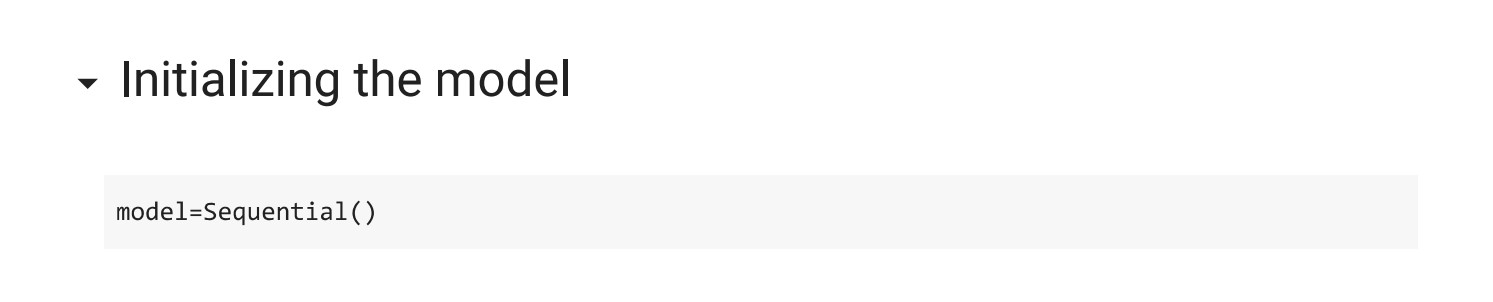
Applying the **flow\_from\_directory ( )** methodfortest folder.



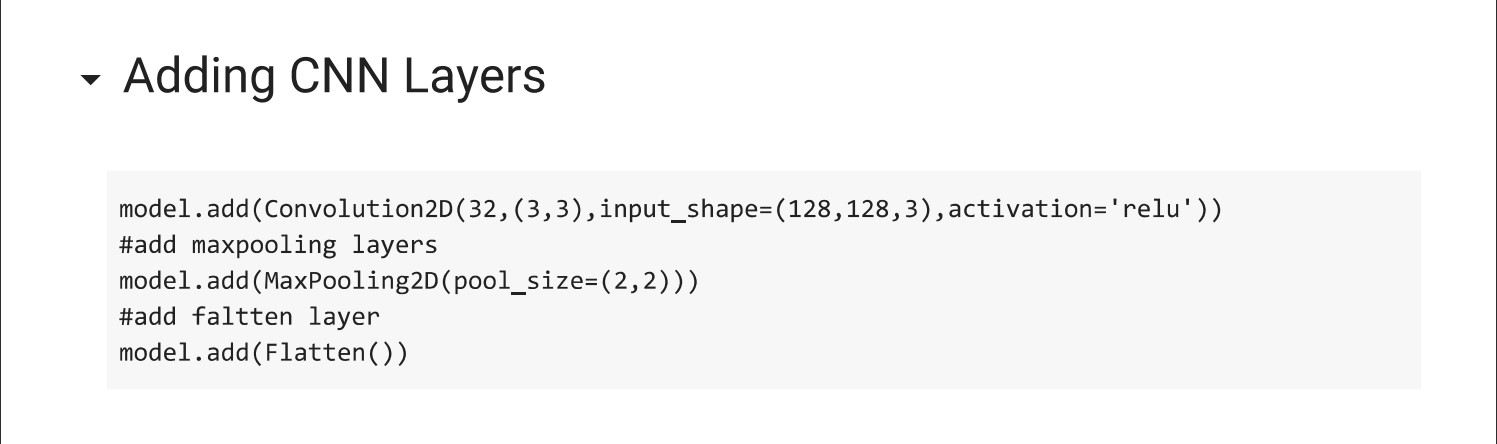
**IMPORTING MODEL BUILDING LIBRARIES:**



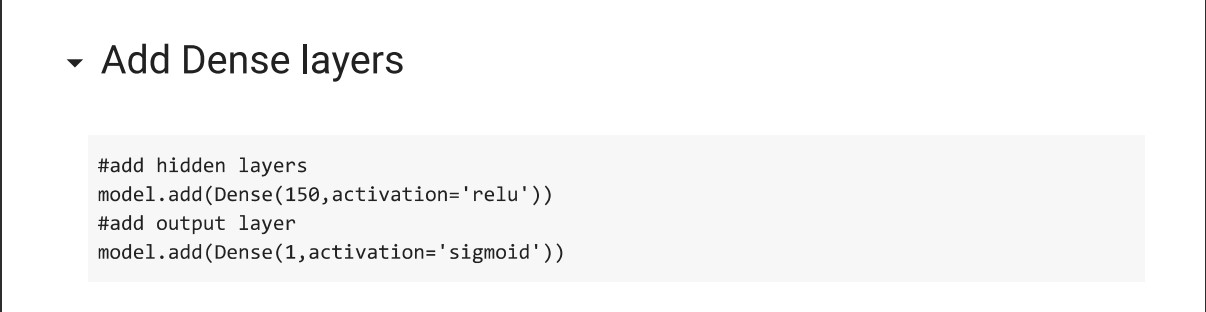
**INITIALIZING THE MODEL:**



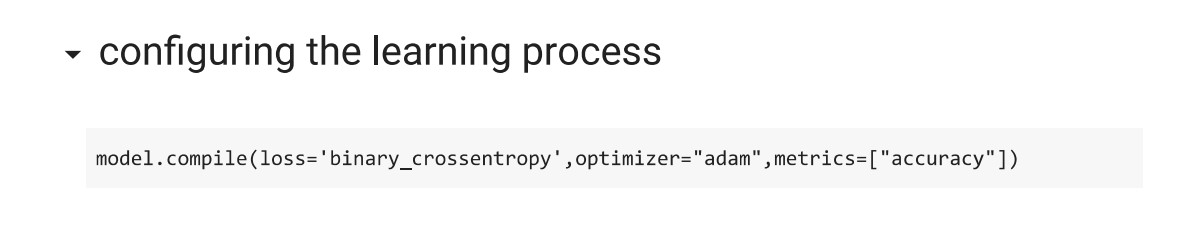
**ADDING CNN LAYERS:**



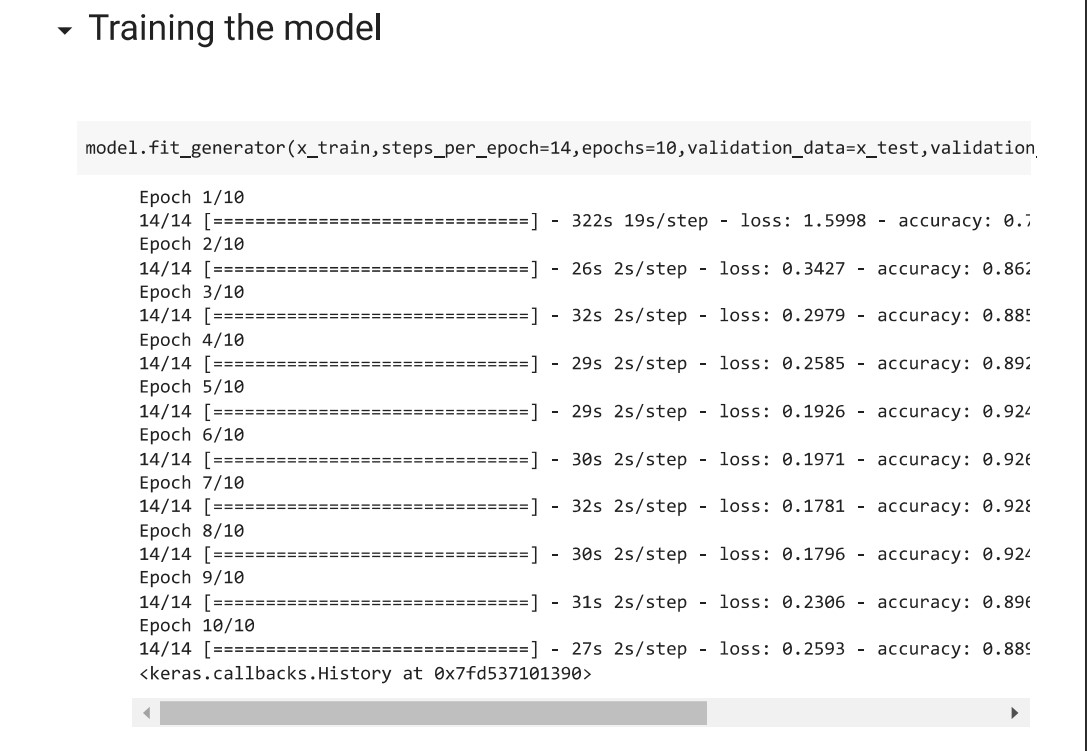
**ADDING DENSE LAYERS:**



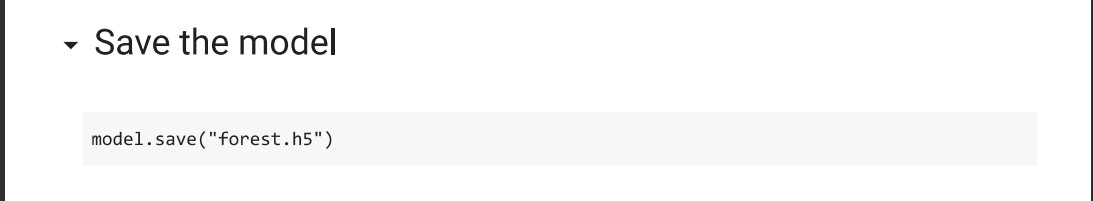
**CONFIGURING THE LEARNING PROCESS:**



**TRAINING THE MODEL:**



**SAVE THE MODEL:**



**PREDICTIONS:**



