```
In [10]: model.compile(loss='binary crossentropy',optimizer="adam",metrics=["accuracy"])
In [11]:
    model.fit_generator(x_train,steps_per_epoch=14,epochs=10,validation data=x test,validation
    st
    Epoch 1/10
    val loss: 1.3686 - val accuracy: 0.5950
    Epoch 2/10
    val loss: 0.2423 - val accuracy: 0.8926 Epoch 3/10
    val
    _loss: 0.1323 - val_accuracy: 0.9669
    Epoch 4/10
    val_ loss: 0.1082 - val_accuracy: 0.9669
    Epoch 5/10
    va l_loss: 0.1145 - val_accuracy: 0.9669
    Epoch 6/10
    val
     _loss: 0.1030 - val_accuracy: 0.9669
    Epoch 7/10
    val loss: 0.0831 - val accuracy: 0.9752
    Epoch 8/10
    val_ loss: 0.1073 - val_accuracy: 0.9669
    Epoch 9/10
    val_ loss: 0.0754 - val_accuracy: 0.9835
    Epoch 10/10
    val loss: 0.0601 - val accuracy: 0.9835
    <keras.callbacks.History at 0x2546507bf10>
Out[11]:
In [12]: model.save("forest1.h5")
In [13]: from keras.models import load_model
     from tensorflow.keras.preprocessing import image
     import numpy as np
     import cv2
```

In [9]:model.add(Dense(150,activation='relu'))

In [15]: model =load model("forest1.h5")

model.add(Dense(1,activation='sigmoid'))