```
 1 from keras.models import load_model
 2
 3 classifier = load_model('classifiermodel.h5')
 4
 5 import numpy as np
 6 from keras.preprocessing import image
 7 import cv2
 8
 9 img = cv2.imread('f1.jpg', 0)
10 img2 = cv2.imread('f1.jpg')
11 img = cv2.resize(img, (48, 48))
12 # print(img.shape)
13 img = image.img_to_array(img)
14 # print(img.shape)
15 img = np.expand_dims(img, axis=0)
16 result = classifier.predict(img)
17 # train_set.class_indices
18 if result[0][0] == 1:
19     print('sad')
20     cv2.putText(img2, 'sad', (20, 100), cv2.
   FONT_HERSHEY_SIMPLEX, fontScale=1, color=(255, 0, 0
   ), thickness=4)
21
22 else:
23     print('happy')
24     cv2.putText(img2, 'happy', (20, 100), cv2.
   FONT_HERSHEY_SIMPLEX, fontScale=1, color=(255, 0, 0
   ), thickness=4)
25
26 cv2.imshow('Result', img2)
27 cv2.waitKey(0)
28 cv2.destroyAllWindows()
29
```


Result
happy