

```
1 import os
2 import cv2
3 import numpy as np
4 from PIL import Image
5
6 recognizer=cv2.face.createLBPHFaceRecognizer()
7 path='dataSet'
8
9 def getImagesWithiD(path):
10     imagePaths=[os.path.join(path,f) for f in os.listdir(path)]
11     faces=[]
12     IDs=[]
13     for imagePath in imagePaths:
14         faceImg=Image.open(imagePath).convert('L')
15         faceNp=np.array(faceImg,'uint8')
16         ID=int(os.path.split(imagePath)[-1].split('.')[1])
17         faces.append(faceNp)
18         IDs.append(ID)
19         cv2.imshow("training",faceNp)
20         cv2.waitKey(100)
21     return IDs, faces
22
23 Ids,faces=getImagesWithiD(path)
24 recognizer.train(faces,np.array(Ids))
25 recognizer.save('DataBases/trainingData.yml')
26 cv2.destroyAllWindows()
27
```