```
In [45]: from deepface import DeepFace
          import os
          import time
          import playsound
In [49]: print("Choose From The Following:\n")
         print("happy1.jpg")
         print("happy2.jpg")
         print("sad1.jpg")
         print("sad2.jpg")
         print("neutral1.jpg")
         print("neutral2.jpg")
          Choose From The Following:
          happy1.jpg
          happy2.jpg
          sad1.jpg
          sad2.jpg
          neutral1.jpg
          neutral2.jpg
          Enter the image name : happy1.jpg
In [50]:
         import cv2
          import matplotlib.pyplot as plt
          image=cv2.imread(my image)
         plt.imshow(image[:,:,::-1])
             0
           200
           400
           600
           800
          1000
           1200
                   250
                        500
                             750
                                 1000
                                     1250
                                           1500
                                                1750
                                                     2000
In [51]: from deepface import DeepFace
         result=DeepFace.analyze(image,actions=["emotion"])
         print(result)
         l=list(result.items())
         11=list(l[-1])
```

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```
{'emotion': {'angry': 0.14708104721567317, 'disgust': 3.12050615550482
In [53]: | def speak(text):
            tts=gTTS(text=text,lang="en")
             filename="voice4.mp3"
             tts.save(filename)
             playsound.playsound(filename)
         text=11[-1]
 In [*]: import serial
         import time
         import os
         ser=serial.Serial("COM3",9600)
         def emotion():
             if (text=="happy"):
                 time.sleep(0.1)
                 ser.write(b'Happy')
                 emotion()
             elif (text=="neutral"):
                 time.sleep(0.1)
                 ser.write(b'Neutral')
                 emotion()
             elif (text=="sad"):
                 time.sleep(0.1)
                 ser.write(b'Sad')
                 emotion()
         time.sleep(2) # wait for the serial connection to initialize
 In [ ]:
 In [ ]:
```

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