Code for Facial Emotion Recognition

```
import cv2
from deepface import DeepFace
def detect_emotion(frame):
  try:
    result = DeepFace.analyze(frame, actions=['emotion'], enforce_detection=False)
    dominant_emotion = result[0]['dominant_emotion']
    return dominant_emotion
  except:
    return "No Face"
# Start webcam
cap = cv2.VideoCapture(0)
print("Press 'q' to quit")
while True:
  ret, frame = cap.read()
  if not ret:
    break
  frame = cv2.flip(frame, 1) # Mirror for natural view
  emotion = detect_emotion(frame)
  cv2.putText(frame, f'Emotion: {emotion}', (30, 50),
        cv2.FONT_HERSHEY_SIMPLEX, 1, (255, 255, 0), 2)
  cv2.imshow("Emotion Detection", frame)
```

```
if cv2.waitKey(1) & 0xFF == ord('q'):
    break

cap.release()
cv2.destroyAllWindows()
```