```
# import necessary packages
import cv2
import numpy as np
import mediapipe as mp
import tensorflow as tf
from tensorflow.keras.models import load model
# initialize mediapipe
mpHands = mp.solutions.hands
hands = mpHands.Hands(max num hands=1, min detection confidence=0.7)
mpDraw = mp.solutions.drawing utils
# Load the gesture recognizer model
model = load_model('mp_hand_gesture')
# Load class names
f = open('gesture.names', 'r')
classNames = f.read().split('\n')
f.close()
print(classNames)
# Initialize the webcam
cap = cv2.VideoCapture(0)
while True:
    # Read each frame from the webcam
    _, frame = cap.read()
    x, y, c = frame.shape
    # Flip the frame vertically
    frame = cv2.flip(frame, 1)
    framergb = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
    # Get hand landmark prediction
    result = hands.process(framergb)
    # print(result)
    className = ''
    # post process the result
    if result.multi_hand_landmarks:
        landmarks = []
        for handslms in result.multi hand landmarks:
            for lm in handslms.landmark:
                # print(id, lm)
                lmx = int(lm.x * x)
                lmy = int(lm.y * y)
                landmarks.append([lmx, lmy])
            # Drawing landmarks on frames
            mpDraw.draw_landmarks(frame, handslms, mpHands.HAND_CONNECTIONS)
            # Predict gesture
            prediction = model.predict([landmarks])
            # print(prediction)
            classID = np.argmax(prediction)
```