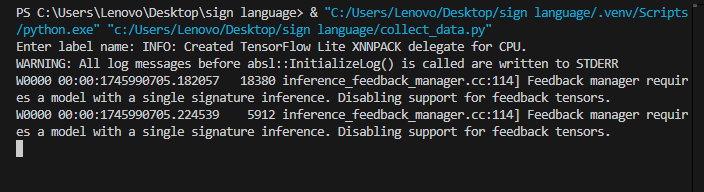
**SIGN LANGUAGE DETECTOR**

This is a guide on how to use the sign language detector

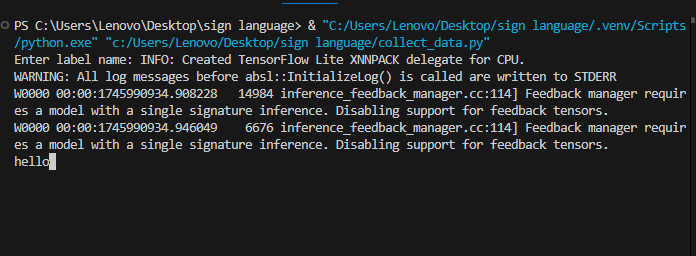
NB\* Ensure all the libraries are installed in a .venv folder within your workspace. See README.txt for more details.

1. **Collect data**

Launch collect\_data.py from your virtual environment.

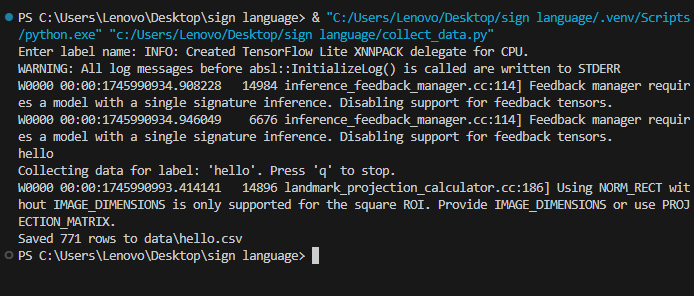
****

Enter a label name for your gesture

****

Hold out your hand gesture in different angles to capture frames immediately the webcam turns on.

Press q once done and the data will be saved in a csv file.

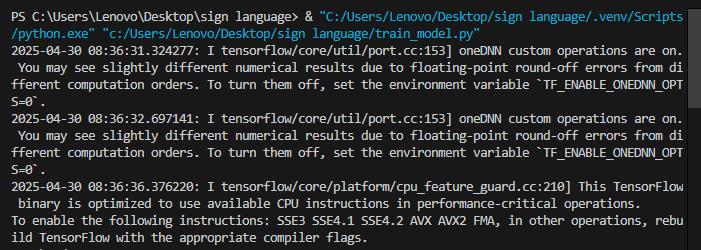
****

Repeat for other signs.

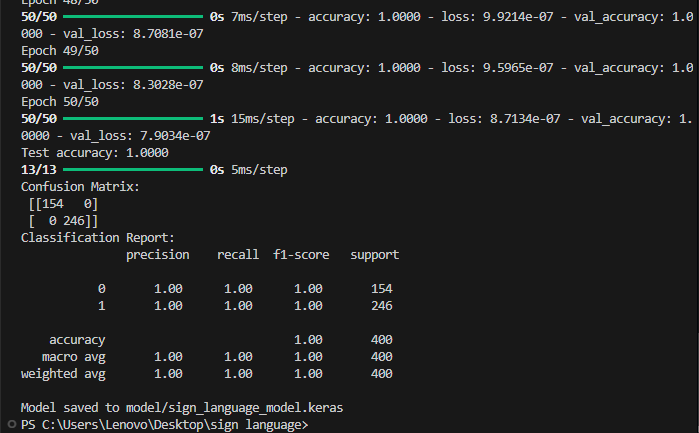
1. **Train model**

Launch train\_model.py from your virtual environment.

This will let the program read your csv data and organize it into a model.

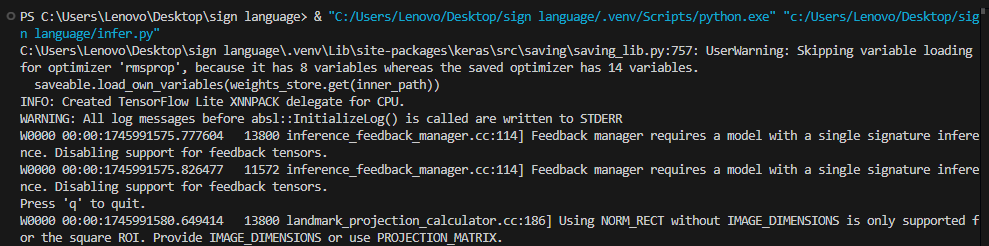


Once done the model is saved in sign\_language\_model.keras



1. **Output**

Launch infer.py from your virtual environment.



Hold out your hand gesture and the system will detect what it says.

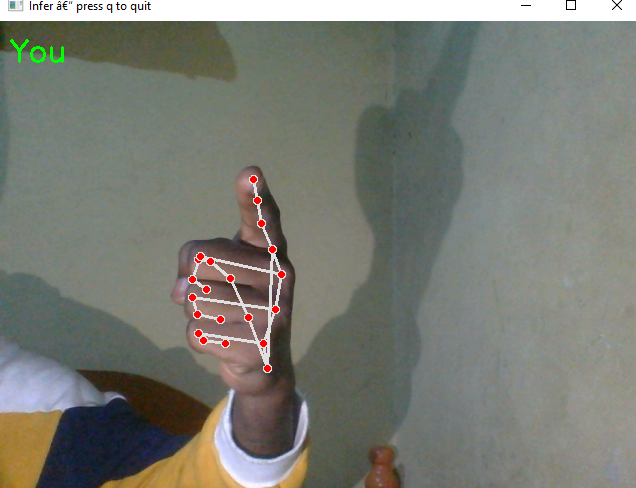
Ok



Hello



You



Have you eaten yet?

