Generating Mirrored Data

- Follow the steps to download ffmpeg
  - https://www.videoproc.com/resource/how-to-install-ffmpeg.htm#:~:text=There%20are%20generally%20three%20ways%20to%20install%20FFmpeg,and%20run%20the%20static%20build%20downloaded%20from%20https%3A%2F%2Fffmpeg.org%2Fdownload.html
- Run the following command to mirror video
  - `ffmpeg -i <Original_Video>.mp4 -vf hflip -c:a copy <Mirrored_Video>.mp4`
- Auto record script that incorporates generating mirrored data

```python
import os
import time
import string

ListOfSigns = list(string.digits)
parent_dir = r"C:/Users/Alex Anderson/Documents/EECS_581/DataRec/depthai-experiments/gen2-record-replay"
for Gloss in ListOfSigns:
    glossPath = os.path.join(parent_dir, Gloss)
    #print(glossPath)
    try:
        os.mkdir(glossPath)
    except:
        print("Folder for Gloss Already Exists, moving on")
    #os.chdir(glossPath)
    fileNum = 1
    while True:
        videoPath = os.path.join(glossPath, str(fileNum))
        mirroredVideoPath = os.path.join(glossPath, "mirrored" + str(fileNum))
        if(os.path.exists(videoPath)):
            fileNum+=1
        else:
            break

    for iteration in range(0,4):
        videoPath = os.path.join(glossPath, str(fileNum+iteration))
        os.mkdir(videoPath)
        print("recording " + Gloss + " in 2 sec")
        time.sleep(2)
        print("recording video #" + str(iteration) + " in 2 sec")
        #record the video
        os.system("python record.py -p" + "\"" + videoPath + "\"")
        print("done recording video #"+ str(iteration)+ " of "+ Gloss)
        os.system("ffmpeg -i "+ videoPath + " -vf hflip -c:a copy" + mirroredVideoPath)
    print("")
    #put the video in the new folder
    os.chdir(parent_dir)
```