**HOW TO RUN THE PROGRAM?**

All we need to run the program is a **Linux terminal**. (Note: Windows Subsystem for Linux (WSL) also works)

* **Move into the directory** containing project files. (Use cd command in terminal).
* Moreover, **use different terminal windows** for server and client.

To run server.py, use

python3 server.py -i <STATUS INTERVAL> -n 4 -f <MP4 FILENAME/LOCATION> -a <SERVER\_IP> -p 21018 27215 35416 19222 39223

where

* -i flag has <STATUS\_INTERVAL> is an integer signifying how **frequently** server status is checked (in seconds)
* -n flag is supposed to signify the number of servers and it **should be kept as 4**. This number **cannot** be changed because the scope of the project does not permit it.
* -f flag has <MP4 FILENAME/LOCATION>. This should contain the **filename with its extension** if file exists in the project directory. If not, the **absolute path with filename and extension** should be provided. (Note: This is the file that will be segmented)
* -a flag has <SERVER\_IP>, the **IP Address** of our current machine
* -p flag has **5 port numbers**, one for each server. (Note: Server 5 is not a file transfer server, it is actually a server needed to send status updates of file transfer servers to client)

Example:

To run client.py, use

python3 client.py -i <METRIC\_INTERVAL> -o <MP4 FILENAME/LOCATION> -a <SERVER\_IP> -p 21018 27215 35416 19222 39223

where

* -i flag has <METRIC\_INTERVAL> which is an integer signifying how **frequently** metric reporting is displayed (in seconds)
* -o flag has <MP4 FILENAME/LOCATION>. This should contain the **filename with its extension of output file** if file is to be created in the project directory. If not, the **absolute path with filename and extension** should be provided. (Note: This is the file that will be formed after recombination)
* -a flag has <SERVER\_IP>, the **IP Address of our Server** machine. (**Same** IP if both client and server running on the same machine)
* -p flag has **5 port numbers**, one for each server we want to connect to. (Note: Server 5 is not a file transfer server, it is actually a server needed to send status updates of file transfer servers to the client)

Example: