S2-MPEG4 and more endpoints



- -Use PYTHON only (there might be exceptions)
- Be creative! Feel free to type code as you want

Don't forget to comment your code to make it understandable if needed

-PEP8 it's a plus https://www.python.org/dev/peps/pep-0008/



- -It's recommended to work with PyCharm or any other IDE
- You can INTERPRET as you want the following exercises

 It's ALLOWED to COPY from the internet if the script works. Not allowed to copy from mates AND DO NOT USE CHATGPT, COPILOT or any AI



 Deliver everything inside a Github link! then share this link in Aula Global

 Work with your bestie together. Better github history will increase marks

1) Download the infamous Big Buck Bunny video

Create a new endpoint / feature which will let you to modify the resolution (use FFmpeg in the backend)

DO NOT UPLOAD VIDEOS INTO GITHUB!

FREE INTERPRETATION - output as you want



2) Create a new endpoint / feature which will let you to modify the chroma subsampling



3) Create a new endpoint / feature which lets you read the video info and print at least 5 relevant data from the video



- 4) You're going to create another endpoint in order to create a new BBB container. It will fulfill this requirements:
 - Cut BBB into 20 seconds only video.
 - Export BBB(20s) audio as AAC mono track.
- Export BBB(20s) audio in MP3 stereo w/ lower bitrate
- Export BBB(20s) audio in AC3 codec
 Now package everything in a .mp4 with FFMPEG!! DO NOT UPLOAD VIDEOS INTO GITHUB

5) Create a new endpoint / feature which reads the tracks from an MP4 container, and it's able to say (deliver an output) of how many tracks does the container contains



6) Create a new endpoint / feature which will output a video that will show the macroblocks and the motion vectors



7) Create a new endpoint / feature which will output a video that will show the YUV histogram

Thanks