**Coding Assignment**

1. Download video file (airshow.mp4) from <https://www.dropbox.com/sh/782f7a0hmw3mn59/AADcJpRoFB0IIfi7-nR-7Eifa?dl=0>.
2. Cut it up into **1-minute** clips, save as **.mov** or **.mp4** inside a folder named “video\_clips”. (Depending on the method you use, it may not be exactly 1-min. Roughly 1-min is fine.) Please create folder **programmatically** with Python.
3. The names of each clip must include the starting frame count of the cut video. For example, the 1st clip may be named 0thFrame.mov, the 2nd clip may be named 1800thFrame.mov, etc. Depending on how you chop up the video, the frame with which you start the next clip may not be exactly 1800 frames after. That is fine as long as that is correctly reflected on the saved name of the clip.
4. Create table video\_data in **PostgresSQL** database with the following columns:
   1. clip\_name (name of the video clip created in section 2 above, excluding file extension);
   2. clip\_file\_extension (file extension of the video clip created in section 2 above);
   3. clip\_duration (duration of the video clip created in section 2 above);
   4. clip\_location (location of the video clip created in section 2 above. It can be local path to the project directory or the absolute path);
   5. insert\_timestamp (a timestamp when a record has been inserted into a table).

You have the freedom to determine the field types. This video\_data table must be created **programmatically** with Python. Don’t use any SQL tools to create this table.

1. After creating video\_data table insert all the records with information described in section 4 above. It should be 1 record per 1 generated clip.
2. The same records that have been inserted into the video\_data table must be saved to a **CSV** file named generated\_video\_files under “report” folder. Please create folder **programmatically** with Python.

Feel free to utilize any Python packages to solve this. Please use **OOP** (object-oriented programming) in this assignment. Also, please follow PEP 8 style guide.

Upload your code and a report (CSV file) from section 6 above to your Github account if possible and add the README.md file to the repository with instructions on how to setup the environment, run your code and any other notes you find important to mention. The repository **does not** have to contain the output video clips generated in section 2 above.