Build a small app to analyze a given log file using a programming language you prefer. You can choose either Java or python. You are allowed to use any libraries.  Can be as simple or as complex as you want, as long as it meets the minimum requirements.

Minimum Requirements:

1. Program to convert the given API log file into a CSV file. Log file is [here](https://drive.google.com/file/d/1XH0Zx6kwd3i5fhnnSSPK7sUAHOXabuf4/view?usp=sharing) (<https://drive.google.com/file/d/1XH0Zx6kwd3i5fhnnSSPK7sUAHOXabuf4/view?usp=sharing>)
   1. Each endpoint has a unique key which can be used to identify the matching start and end times
2. Program must be written in either Java or Python
3. Output should be a csv file with only the following columns:  Message, Start Time, End Time, and Time difference between the “start” and the corresponding “end” message.  
   Example Output:

|  |  |  |  |
| --- | --- | --- | --- |
| Log message | Start Time | End Time | Time Diff |
| timeline ep starts - timeline ep ends | 2021-07-21 21:47:45.588 | 2021-07-21 21:48:48.423 | 1.03333 |
| network EP starts network EP ends | 2021-07-21 21:48:49.160 | 2021-07-21 21:49:51.988 | 1.03333 |
| Articles api starts - Articles api ends | 2021-07-21 21:51:19.742 | 2021-07-21 21:51:21.734 | 0.01666 |

1. local machine.
2. Code must be hosted in github repository where we can access it.