🩼 Logging

- Logging is the process of recording events that occur within a system or application.
- These events can be anything from errors and warnings to informational messages and debug details.
- In data science, logging is crucial for tracking the execution of data pipelines, monitoring model performance, and debugging issues.

```python
import logging


logging.basicConfig( filename = 'aditya.txt',
                                  filemode = 'a',
                                  format = '%(asctime)s %(levelname)s-%(message)s',
                                  datefmt = '%Y-%m-%d %H:%M:%S')


for i in range(0,6):

        if(i%2==0):
            logging.warning('Log warning message')
        elif(i%3==0):
            logging.critical('Log Critical Message')
        else:
            logging.error('Log Error Message')
```

When you run this code, it will generate a file named 'aditya.txt' that captures all log warnings when specific conditions are met.

You will have something like this

```
2021-02-23 21:14:01 WARNING-Log Warning Message
2021-02-23 21:14:01 ERROR-Log Error Message
2021-02-23 21:14:01 WARNING-Log Warning Message
2021-02-23 21:14:01 CRITICAL-Log Critical Message
2021-02-23 21:14:01 WARNING-Log Warning Message
2021-02-23 21:14:01 ERROR-Log Error Message
2021-02-23 21:14:01 WARNING-Log Warning Message
2021-02-23 21:14:01 ERROR-Log Error Message
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2021-02-23 21:14:01 ERROR-Log Error Message
2021-02-23 21:14:01 WARNING-Log Warning Message
```