

1. This is a two-column dataset that includes Timestamp, a column that records the time at which every value was taken, and Values that refer to the readings taken in volts as described in the assignment.
2. The voltage values fluctuate sharply over time, ranging approximately from low-25-30 to high-100, indicating high short-term variability.
3. The raw voltage signal exhibits repeated peaks and sudden drops; it therefore seems periodic or disturbed frequently in nature.
4. The small-window moving average smooths short-period oscillations but follows the rapid voltage changes at a small distance.
5. The moving averages for long windows are much smoother, indicating the canceling effect of extreme variations over time.

## **CONCLUSION :-**

In general, the data shows short-term instability in voltage, but the long-term trend has kept relatively stable without any huge upward or downward shift.

