1. Graphical user interface, text, application

   Description automatically generated
2. In earlier lecture, we studied about the Data Directory which is created for each partition.  
   These directories hold the log files which in turn contain the msgs.
3. **Agenda**:
   1. Log File.
4. 
5. The msgs are stored in the log file in the partition directory (Data Directory).
6. However, instead of storing all the msgs into a single log file, Kafka generates several smaller log files known as **segments**.
7. Graphical user interface, text

   Description automatically generated
8. Graphical user interface

   Description automatically generated
9. Text

   Description automatically generated with medium confidence
10. Diagram

    Description automatically generated
    1. When a partition starts receiving msgs, it stores the msgs into the first segment 00000000000000000000.log.
    2. When the segment limit is reached, it closes the existing segment log file and creates a new segment log file.
    3. **Default limit** is 1 GB or a week of data.   
       Whatever is reached first.
    4. We have set the limit to 1MB.   
       That’s why we can see the segment log files earlier in our case.