- What is the paper about?

This paper explains how Google uses principles and best practices to design successful monitoring and alerting systems, as well as how they use them for their services..

- What is monitoring?

  Monitoring entails keeping track of and controlling data about a system. It includes all phases such as data collection, processing, and display.

  - Why monitor a system in the first place?

    Monitoring is essential to identify system failures before they lead to actual problems.

- Explain the 4 golden signals of monitoring.

The 4 golden signals of monitoring are :

1) Latency - In my perspective, this is a critical guideline to follow when discussing monitoring because the time it takes to service a request is critical, and distinguishing between a successful and failed request is critical.
2) Traffic - When monitoring a system, traffic is also a crucial factor to consider because it indicates how much demand is being placed on your system and the decision you will make.
3) Errors - Because protocol response codes are insufficient to indicate all failure scenarios, another important aspect to monitor is errors.
4) Saturation - It indicates how full the service is. It's also vital to evaluate these signals since, even if resource usage isn't 100%, performance worsens as the number of resources used increases.If these four golden signals are followed, the service will be adequately covered by monitoring.
5) According to the paper, how do you do the monitoring? What is important? Exemplify.

- What approach would you use for your lab: White-box or Black-box monitoring? Why?
- What happened with Big table SRE and how did they "fix" the situation?