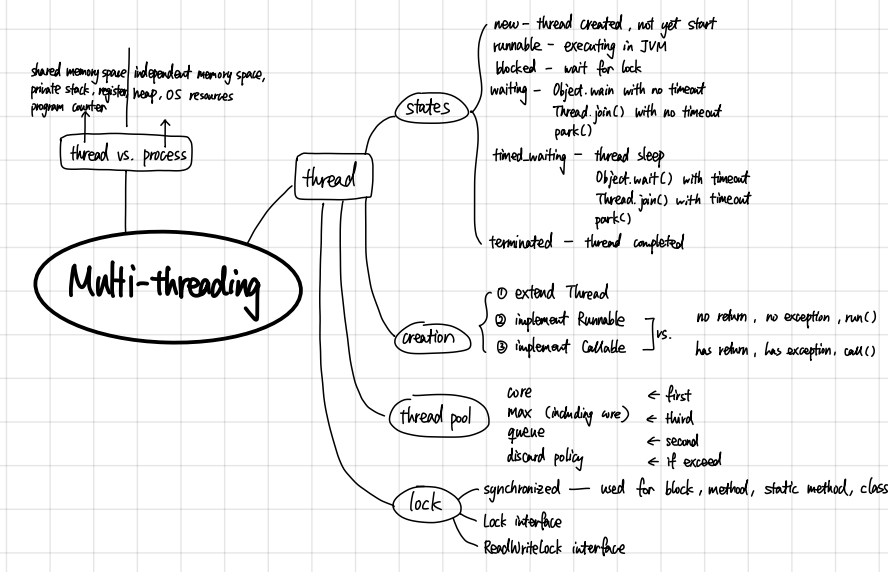
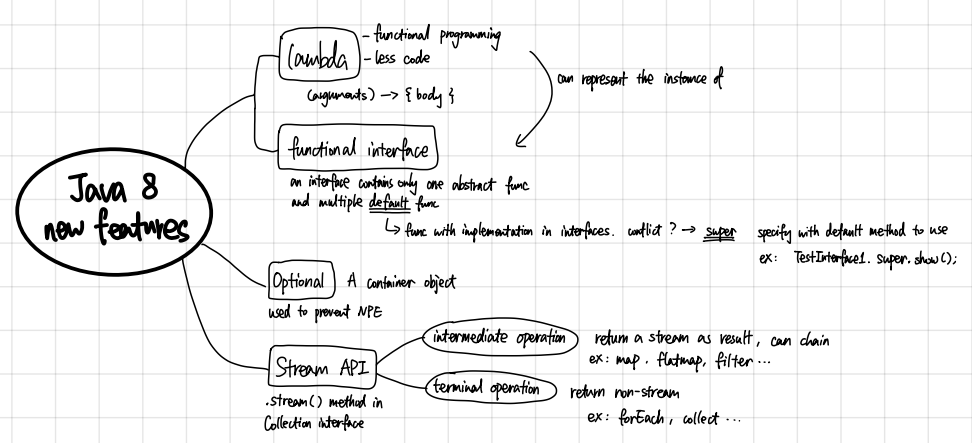
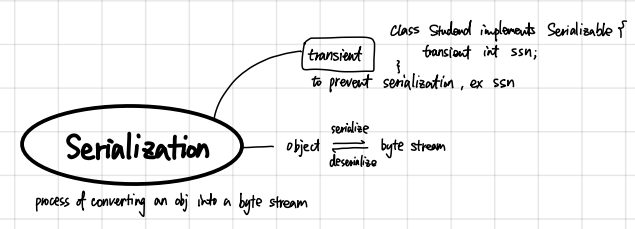
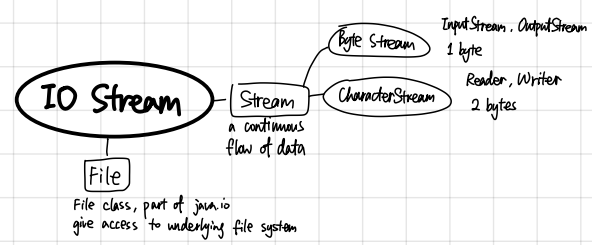
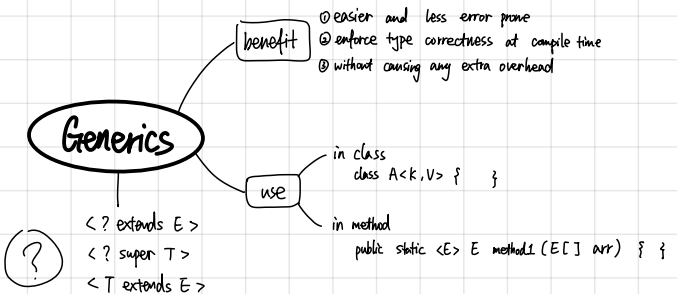
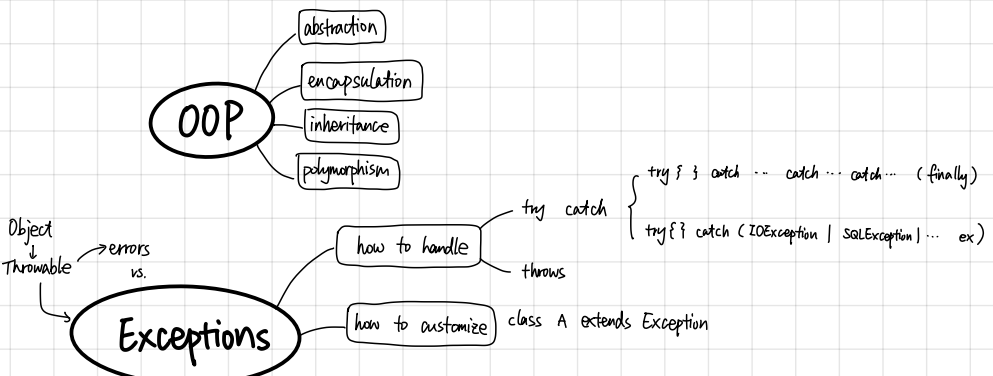
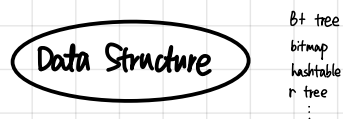
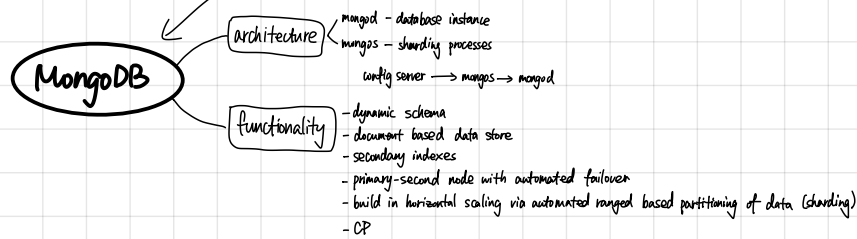
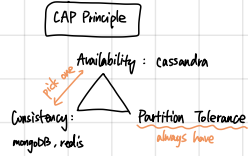
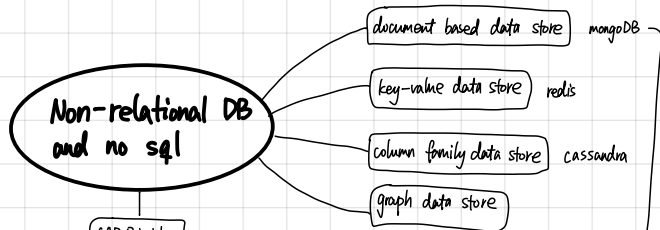
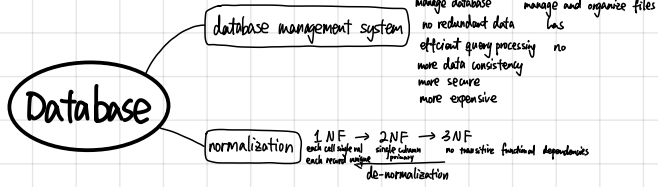


- ③ static
- ④ extends vs. implements





- use execution plan to identify the cause of slowness
- reduce join
- use index
- union all instead of union
- limit
- view or stored procedure

