SPOT Question

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Create a Java program with **three threads**:

1. **Deposit Thread**
    - Deposits Rs100 into a bank account repeatedly.
    - Set its priority to `3`.
2. **Withdrawal Thread**
    - Withdraws Rs 50 repeatedly.
    - Set its priority to `5`.
3. **Balance Thread**
    - Displays the current account balance every second.
    - Set its priority to `8`.

Requirements

- Create a `BankAccount` class with:
    - `deposit(int amount)`
    - `withdraw(int amount)`
    - `displayBalance()`
- Create three thread classes:
    - `DepositThread`
    - `WithdrawThread`
    - `BalanceThread`
- Use `Thread.setPriority()` to assign different priorities.
- Start all three threads.
- After 3 seconds, **suspend the withdrawal thread**.
- Allow the deposit and balance threads to continue running.
- After another 3 seconds, **resume the withdrawal thread**.
- After a further 3 seconds, stop all threads.
- Use synchronization so that two threads cannot modify the balance at the same time.