CS314: Lecture Note (Lecture #15, February 29, 2024)

1. **Ask students to come forward and pick up:**

   - Attendance card
   - Quiz #7 question list

2. **Announcements:**

   - Quiz #7 is scheduled on March 14th (Thursday) after the spring break

3. **Introducing Project #2**

   - pthread – a user-mode thread for the UNIX/LINUX platforms
   - custom-thread scheduler (i.e., a user-defined thread scheduler)
   - thread synchronization
   - interrupt and interrupt handler

4. **Threads (AKA, "light-weight processes")**

   - Concept (two motivations)
   - Thread internal structure
   - Global and private PCBs
   - Examples (Windows kernel-mode threads)
   - Disadvantages in using threads
   - The kernel-mode threads (Windows) and the user-mode (UNIX pthread) threads