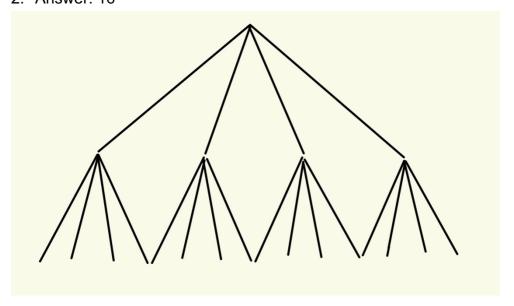
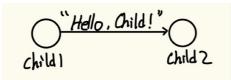
- 1. Switching CPU core to another process required performing a state save of the current process and state restore of different process. When a context switch occurs, the system saves the context of the old process into the PCB and loads the saved context for the new process.
- 2. Answer: 16



- 3. This method would never return if execlp() is called. If an error occurs in the call to execko(), the line printf(" LINE J") would be performed.
- 4. A = 0
 - B = 2606
 - C = 2606
 - D = 2603
- 5. This program is going to echo a message from one child process to another. Output: Hello, Child!



6. CPU efficiency = time slice / (time slice + context-switch time)

OLD: 20 / (20+1) = 0.9524

NEW: 15 / (15+1) = 0.9375

OLD efficiency > NEW efficiency; therefore, efficiency decreases.

- 7. (a) from running to waiting I/O or event wait
 - (b) from waiting to ready input/output completion
 - (c) from running to ready interruption (system call)