**Question 1:**

The operating system represents each process using a **process control block (PCB).** The PCB includes all of the information about the process, namely its **I/O status information.** This portion includes the list of devices that are allocated to the corresponding process. When a process is multithreaded, its PCB is expanded to allow multiple threads to access the same information and resources specified within the PCB. In our case, a separate thread is continuously printing messages while the main thread is waiting for a keyboard input. This is possible because of the reasons mentioned above: multiple threads within processes share resources specified within the PCB of the process. A new thread does not steal access to a particular resource of I/O device when it is created, and therefore one thread could hang out while another waits for input.