

1. John executes a photo management program, the program will transfer all new photos from a camera automatically. Once the photos have been transferred, John will view all the photos and select those he wants to print out. The photo management program will store the selected photos into a USB flash drive. State the changes of the program execution mode during its lifespan and identify the events / operations that trigger the changes.
2. Determine the type of scheduling that involves in the following state transitions.
 - i. New \rightarrow Ready
 - ii. Ready \rightarrow Running
 - iii. Blocked \rightarrow Blocked/Suspend
3. What is the purpose of swapping?
4. Given the following set of processes.

Process	Arrival Time	Processing Time
A	2	3
B	0	4
C	8	4
D	5	6
E	9	3

- a. Show the execution of the process in the time line for the following scheduling algorithms:
 - Round robin with time quantum 2
 - Round robin with time quantum 3
 - SRT (shortest remaining time)
 - HRRN
- b. Define turnaround time.
- c. Determine the turnaround time of the processes for each scheduling algorithms in part (a).