## **Debates/Discussions – Week 12**

- 1. Explain the following terms: valid/invalid bit, modify (dirty) bit, reference bit.
- 2. Explain how page fault is handled by the OS.
- 3. Assume we use **demand paging** and **LRU page-replacement**. There are 8 pages and 4 physical frames. The initial free frame list is {3, 2, 0, 1}.
- Process reads pages 0, 1, 2, 4 then writes pages 0, 3, 4, 2, 5
- The right shows the current page table and physical memory after the first read (0)
- How many page-faults occur?
- How many page-replacements occur?
  - How many disk transfers are needed for each page replacement?
- What are the values of the final page table entries?
- 4. What is thrashing? Explain two methods to solve thrashing.





