

Q6

## LRU & NRU policies:-

- LRU:- This algorithm replaces the page that was least recently used. So whenever a page fault occurs, the page that was least recently used will get replaced by the new recent page. LRU keeps track of the page usage. It requires a time stamp recording for a page frame at the time of each reference. Selected page should then have the oldest time stamp.

But there is a overhead of maintaining such values & time is wasted to find oldest value.

NRU:- (Not recently used)

- Simpler policy than LRU.
- In this, each page frame is associated with it, a page referenced bit at intervals, the OS resets all of these bits to zero. Subsequent reference to a page will set its page referenced bit to 1, indicating that this page has been used during the current interval.
- No ordering is required as linked list is maintained for NRU that selects page with page referenced bit of zero.