## OS-Assignment-II

- 1) The bounded Buffer Problem
- DO A critical section
  - 3 A Mutual Enclusion
  - @ Binary Semaphores, Counting Semaphores.
  - (Oncurrency)

Short a's

- extensives that one a thread has locked api piece I code shen no other thread can oned encute the some region until it is unlocked by the thread who
- peadlock in a solution which involves the interaction of more than one resources and process with each other. When a prous requests for the mounce that i wen held onother proces which needs another resource to continue.

- 3 In the computer System,
- 3) A Co-operating procus in one which can offeet/ offeeted by any another & procus that is running on the computer
  - 4 granted of the resulting state of the system doesn't came deadlock in the system.
  - (3) The state of The system instead of earing those table, actual table, are very easy to represent and enderstand it, but then still you could even represent the some information in the graph. This is called Resource Allocation Graph (RAG)
  - O The witical section acress accuses a & shared resource such as data structure, a peripheral divid, or a retwork connection, that would not

operate correctly or the content of multiple concurrent occuses.

Simplimentation of critical section:

- Scikcal section will usually to minote in finite from, and a thread, task process will have to write for a fined hime to entriet. To ensure enduring one of critical section some synchronization mechanism is required at the entry and enit of the appropriam.
- She thead blocks a withed section by eving bothing technique when it needs to occurs accus the should databases.
- > The simplet method to prevent any change of processor control inside the the control section in implementing a semaphone