9.0, WPL

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YOUVA

Assignment No. 6

Title:- Inter Process Communication

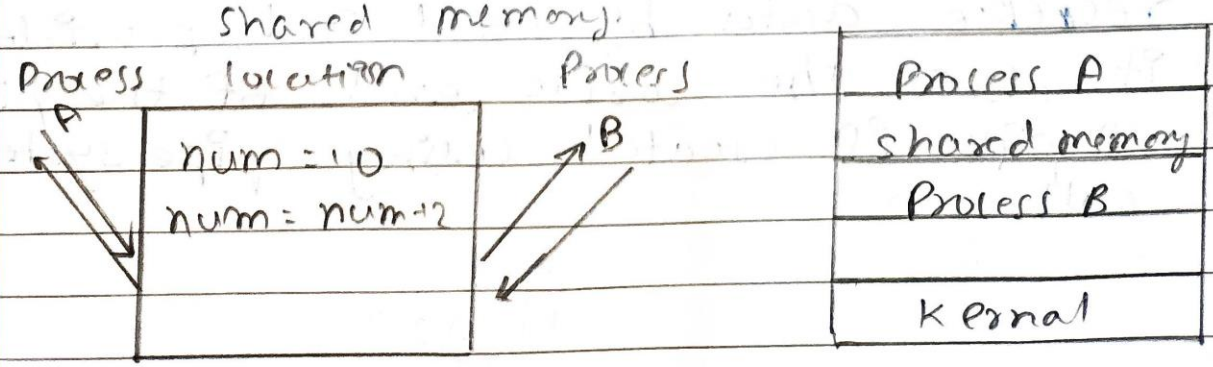
FAQs

1. Explain independent and cooperating processes?

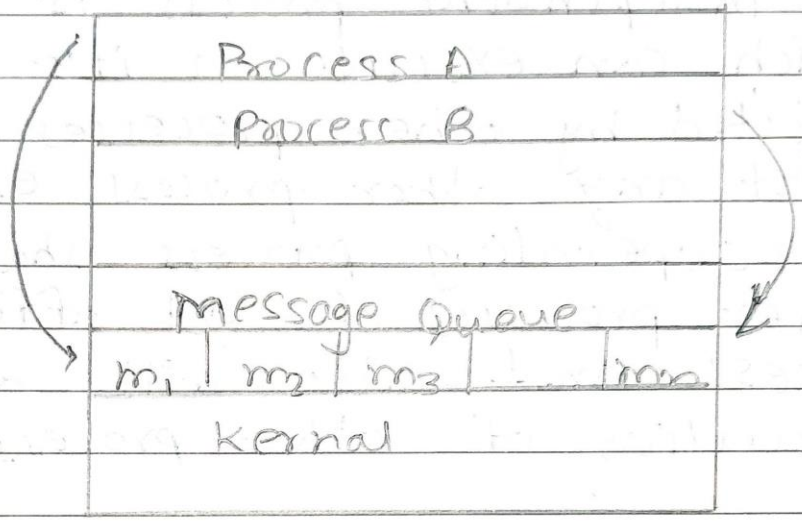
→ An Independent process is a process which can execute on it's own, is not affected by other processes and will not affect any other process execution.
A cooperating process shares data with other processes & get affected by other process and also will affect the execution of other processes.

2. Explain two fundamental models of IPC with neat diagrams.

→ The models of IPC are as follows:-
1] share memory:- Shared memory is the memory that can be simultaneously accessed by multiple processes. The processes exchange information by reading and writing data in the memory location is faster method of IPC.



2] Message Passing :- Multiple processes can read and write data to the message queue without being connected messages are shored on the queue and are recieved by the recipient process.



message passing

3. Explain IPC using pipe.

→ A pipe is a communication medium between two or more than two interrelated processes. A process can send data 'down' the pipe using write() & provided it closes read end and the other processes can recieve data by read end; provided it closes the write end of the pipe. A pipe is created using pipe system call.

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