Assignment no.4

need of process synchronization? What is

by process can share same data between them called as a shared data.

· It helps to maintain consistency between them by using a vorsiable or a horsdwork.

Process A works Data Read Process B

Hère, the processe is changing the data in a memory location where other process is i.e. processes is trying to read data from same memory location.

-There are

· Need of synchronization :-

The need of synchronization originates when processes need to execute concurrently.

The main purpose of synchronization is the sharing of resources without interference using mutual exclusion.

The other purpose is the collection of process interaction in an Operating System.

0.2) Define.

1) Entry Section 8-

Entry section is part of the process which decide the entry of particular process in the critical section, out of many others processes.

2) Coitical sections

It is the part in which only one process is allowed to enter and modify the shared varifable. It This part of the process ensures that only one only no other process can access the resource of shared data.

3 Exit Section:

This process allows the other process that are waiting in Entry section, to enter photo crostical sections. It checks that a process that after a process has finished execution in crifical section can be removed through this Exit Section.

4) Remainders Section:

than Entry Section, croftical section and Exit Section are known as Remainder section.



a) mutual Exclusion :-

It states that no others process is allowed to execute in contical section. if a process is executing in contical section. Section.

b) Progress :-

when no process is in the critical section, then any process from outside that request for execution can enter in the critical section without any telestated selection without any telestated and have finite time to enter the process.

C) Bounded waiting 8-

An upper bound must exist on number of times a process enters so that other processes are allowed to enter their critical sections after a process has made a request to enter its critical section and before that request is granted.

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24) What one the types of process synchroni-

7. Types of process synchroonization are

1) With busy waiting 3-

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is toying to access the critical section continuously tries to get into the critical section section by checking the condition-cru time is wasted in Busy waiting.

2) without busy woulding:In this, the process which is

traying to access critical section cheeks the condition only once. If another process is present in the critical section then it goes to sleep.

Section gets completed then this process is waked.