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Q2. What is operating system? Describe Resource Request Algorithm and explain Inter Process communication.

Ans-2. An operating system acts as an intermediary between the user of a computer and computer hardware.
An operating system is software that manages the computer hardware.

(i) Booting
Uses diagnostic routines to test system for equipment failure.

(ii) Formatting
Format (initiazlize) diskettes so they can store data program.

(iii) Managing tasks: May be able to perform multi-tasking, multi-programming, time-sharing or multi-processing.

Resource Request Algorithm.
This describe the behaviour of the system when a process makes a resource request in the form of a request matrix.

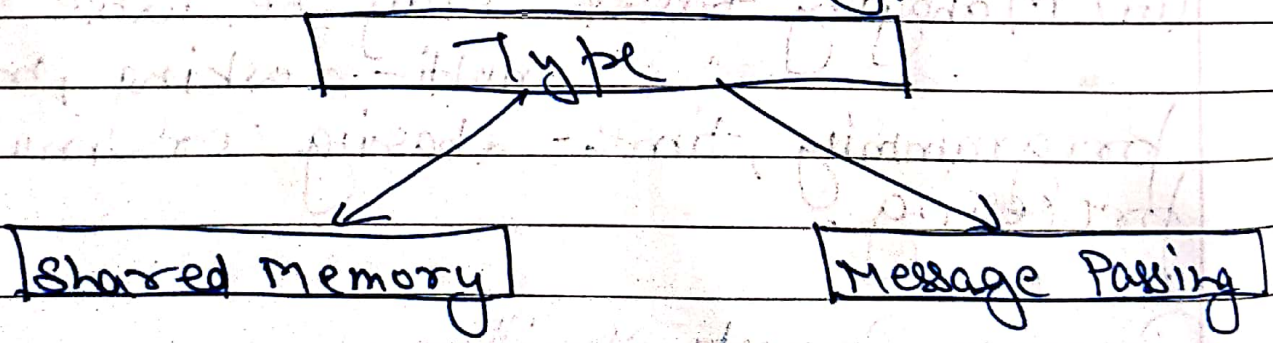
1) If number of requested instances of each resource is less than the need (which was declared previously by the process), go to step 2.

2. If number of requested instance of each resource type is less than the available resources of each type.

3. Now, assume that the resource have been allocated. According to.

Available = Available - Request i
Allocation(i) = Allocation(i) + Request(i)
Need(i) = Need(i) - Request(i)

Inter process Communication



In computer IPC refers specially to the mechanism an operation machine provides to allow the process to manage shared data.