

Q2) What is reparation function? Describe Resource Request Algorithm and explain Inter process communication.

Ans) An operation 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 (initialize) 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 where a process makes a resource request in the form of a request matrix.

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

(II) If number of requested instance of each resource type is less than the available resources of each type.

(III) Now assume that the resource have been allocated. According to.

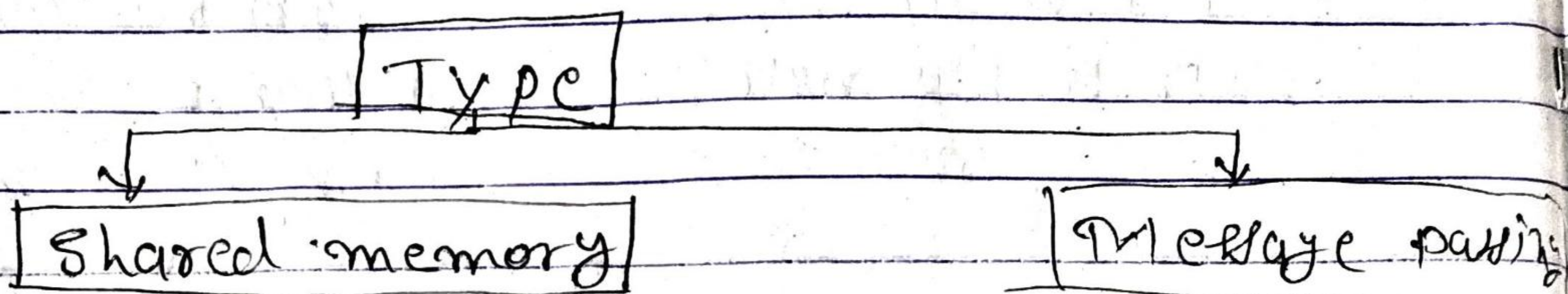
$$\text{Available} = \text{Available} - \text{Request}_i$$

$$\text{Allocation}(i) = \text{Allocation}(i) + \text{Request}(i)$$

$$\text{Need}(i) = \text{Need}(i) - \text{Request}(i)$$

Inter process communication

Inter-process communication type



In computer IPC referred specially to the mechanism in operation machine provide to allow the process to manage shared data.