

Unit. 1.3.2 Type of Computation.

—'. Distributed Computation:—

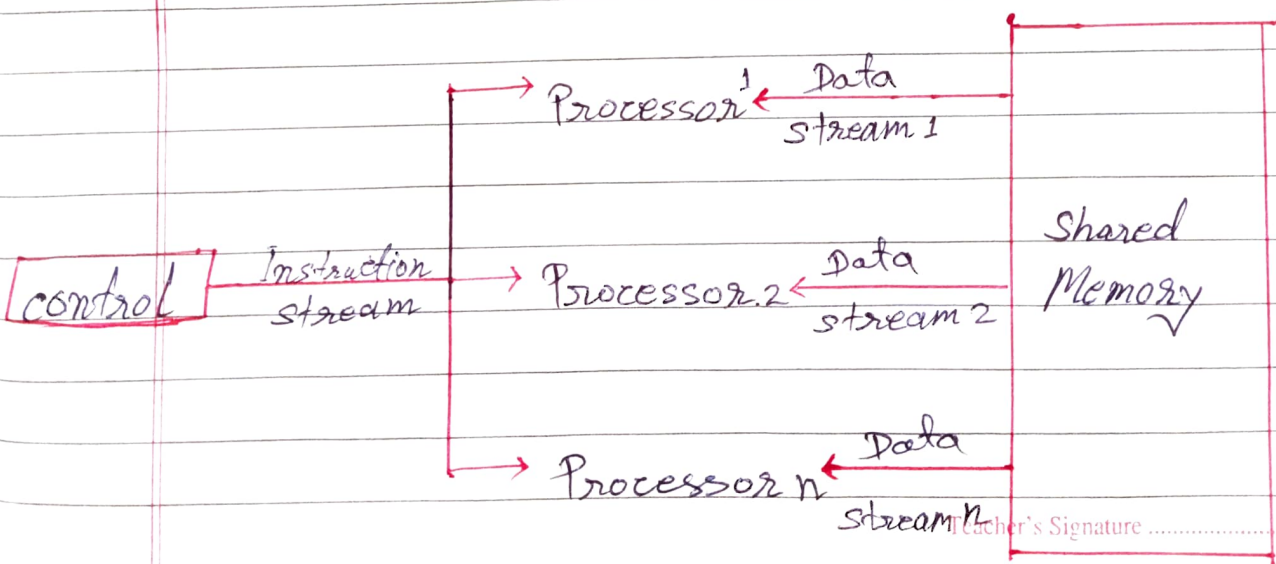
It is a model in which components of a software system are shared among multiple computers to improve efficiency and performance.

As per micro approach about the concept, distributed computing is limited to programs with components shared among computers within a limited geographical area.

-: Parallel Computation :-

- It is a type of computation in which many calculations or the execution of processes are carried out simultaneously.
- Large problems can often be divided into smaller ones, which can then be solved at the same time.
- In parallel computing, all processors may have access to a shared memory to exchange information between processors.

-: Working of parallel computation :-



Difference Between Parallel computing and Distributed Computing

S.No	Parallel computing	Distributed computing
1.	Type of computation in which many calculations executions of the processes are carried out simultaneously	A system whose components are located at different network computers which communicate and coordinate by passing their messages
2.	It occurs in a single computer	It involves multiple computer in coordination.
3.	Computer uses shared memory	Each computer has its own memory