

S.No.	Multiprogramming	Multitasking	Multithreading	Multiprocessing
1.	In multiprogramming, multiple programs execute at a same time on a single device.	In Multitasking, a single resource is used to process multiple tasks.	Multithreading is an extended form of multitasking.	In multiprocessing, multiple processing units are used by a single device.
2.	The process resides in the main memory.	The process resides in the same CPU.	More than one thread processed on a single CPU.	The process switches from one to another CPU as multiple processing units are used.
3.	It uses batch OS. The CPU is utilized completely while execution.	It is time sharing as the task assigned switches regularly.	The tasks are always further divided into sub tasks.	It carries multiple processors to execute the task.
4.	The processing is slower, as a single job resides in the main memory while execution.	Multitasking follows the concept of context switching.	It allows a single process to get multiple code segments.	A large amount of work can be done in a short period of time.