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* Multi-tasking VS Multi-threading

* What is an process ?

Ans Program under execution. When program from DISK comes to RAM for execution.

* What is thread ?

Ans A sub-processes inside of an process. Independently executes and in asynchronous way in the background.

Eg.:) We writing in google doc, we are writing asynchronously spelling checking and auto saving is happening in the back ground.

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* What is Program ?

Ans An executable file which contains a certain set of instructions written to complete the specific job. It is compiled code and ready to execute, stored in Disk.

Multi-tasking	Multi-threading
① More than 1 process concept.	More than 1 threads.
② Isolation & Memory protection.	No isolation and memory protection.
③ No. of CPU 1	No. of CPU > = 1 (Better to have more than 1 or else multi-threading won't work)

→ OS allocated only one memory space to one process and threads share that only space as all are the part of the same process.

* Thread Scheduling :- Threads are scheduled based on their priority during the runtime.

Thread context switching	Process context switching
OS saves current state of thread & switches to another thread.	OS saves current state of process & switches to another process.

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Doesn't include switching of memory address space.	Includes switching of memory address space.
Fast switching.	Slow switching.
CPU cache is preserved	CPU cache is flushed.