Thread

- ↳ A thread is a flow of execution through the process Code with its own program Counter that keeps track of which instruction to execute next, System register which hold its Current working Variable and a Stack which Conteins the execution history
- ↳ A thread shares with its peer threads few like Code Segment data Segment and open files. When one thread alters a Code Segment memory Item all other threads see that.
- ↳ A thread is also Called a lightweight process. threads provide a way to improve application performance through paralleligsm.
- ↳ Thread represent a Software approach to improving performance of operating System by reducing the overhead thread is equivalent to a classical process
- ↳ Each thread belongs to exactly one process and no thread Can exist outside a process.
- ↳ Each thread represents a Separate flow of Control.
- ↳ Threads have been Successfully used in implementing network Servers and web Servers.
- ↳ They also provide a Suitable foundation for parallel execution of application on Shared memory multipuopor

Process	Thread
1> Process is heavy weight or resource intensive	1> Thread is light weight taking lesser resour than a process
2> process switching needs interaction with operating system	2> Thread switching does not need to inte with operating system
3> In multiple processing environment, each process execute the same Code ~~with~~ but has its own memory and file resource	3> All threads can share same set of open files child processes
4> If one process is blocked, then no other process can execute until the first process is unblocked	4> While one thread is blocked and waiting a second thread in the same task can run.
5> multiple processes without using thread use more resources	5> multiple threaded processes use fewer resources