Multithreading.

→ A process can have multiple threads working at same time. Both process & thread are independent path of execu that runs in isolation.

Each thread has its own stack and own local variable. When A method runs on a thread, the local variables in the method are only available within that thread.

→ **Process** is a program in execution.
When waiting for resources, it is just a program.
When execution starts, it becomes a process.
1 single program can have multiple process associated with it.

→ **Thread** is unit of execution within a process. 1 process can have 1 to many threads.

→ Multiprocessing and multitasking is multithreading.

Threads supports:-
- Faster context switching
- Shared Memory area
- Thread is light weight, process is heavy weight.

→ Advantages of Multithreading
- Resource Utilization
- Parallelism and improved performance
- Responsiveness

→ Disadvantages
↳ Difficult in writing, testing and debugging code
↳ can lead to deadlock and race conditions when