***ASSIGNMENT NO.3***

**Multitasking:** In multitasking, users are allowed to perform many tasks by CPU. Multitasking involves CPU switching between the tasks. In multitasking, the processes share separate memory. The components of multitasking are also involved in multiprocessing. In multitasking, CPU is provided in order to execute many tasks at a time. In multitasking, processes don’t share same resources, each process is allocated separate resources.

**Pros:** Following are some of the common advantages of multitasking:

* Increased Efficiency
* Increased Productivity
* Flexibility and Adaptability

**Cons:** Following are some of the cons of multithreading

* Declining Quality
* Chronic Distraction
* Misplaced Priorities

**Multithreading:** In multithreading, many threads are created from a process through which computer power is increased. In multithreading, CPU switching is involved between the threads. In multithreading, processes are allocated same memory. While multithreading component does not involve multiprocessing. In multithreading, CPU is provided in order to execute many threads from a process at a time. In multithreading, each process share same resources.

**Pros:** Following are some of the common advantages of multithreading:

* Improvised GUI responsiveness
* Decreased cost of maintenance
* Better use of CPU resource.

**Cons:** Following are some of the cons of multithreading:

* Complex debugging
* Complex testing processes
* Increased potential for deadlock occurrence.