***Afzal Ahmed Assignment 3***

***IOT046458 Batch 2, Quarter 3***

***Class Time: 1:30 – 3:30***

**Multitasking vs Multithreading**

**Multitasking:**

* Many tasks are performed by CPU at the same time.
* In multitasking there is CPU switching or taking turns to do different tasks.
* In multitasking processes share separate memory.
* In Multitasking a component may involve multiprocessing.
* CPU executes many tasks at the same time by giving every task some time and resources based on priority or some algorithm.
* Processes don’t share resources, in fact each process is allocated separate resources.

**Multithreading:**

* In multithreading, more than one threads are created from the same process, this increases computer power.
* In multithreading, CPU switching occurs between threads.
* Processes are allocated same memory.
* Multithreading does not involve multiprocessing, means different threads of only one process are executed at the same time.
* Each processes share same resources.