**ASYNCHRONOUS**

Before writing **asynchronous** we should know what is **synchronous**? In a simple term execution of tasks is dependent upon finishing of previous task.

In context of computer execution of process or task perform on threads. A thread is a series of commands that exists as a unit of work. The operating system simulates this by allocating slices of time to different threads. Now as days we have multi core and multi threads CPU, now doing task/processes synchronous will waste resources of the machine, because we can do multiple tasks simultaneously.

Example:

We have three Task each of **60 seconds**, to execute these task time required to complete these task will be **180 seconds**. It can be done in 60 second when we use asynchronous. We will discuss below what is asynchronous.

thread A -> |<---A---->|

\

thread B ------------> ->|<----B---------->|

\

thread C ----------------------------------> ->|<------C----->|