Batch Operating System | Operating System – M01 P02

This is a multipart blog article series, and in this series I am going to explain you the concepts of operating system. This article series is divided into multiple modules and this is the first module which consists of 12 articles.

In this article we will see that what are the types of operating system and mainly focus on “Batch Operating System”.

1. Types of operating systems: There are in total seven types of operating systems and their names are.
   * Batch
   * Multiprogrammed
   * Multitasking
   * Real time OS
   * Distributed
   * Clustered
   * Embedded
2. Batch operating systems: This operating system was mainly used in 1960s and only few companies or organizations have computer systems at that time (NASA, ISRO).

These organizations use to load their jobs/tasks on *Punch cards/ paper tape/ magnetic tape*, and give it to the operator, then operator use to converts these punch cards into different batches (that means batches of similar kind, which have similar kind of process.) Now we get different batches let say B1, B2, B3 etc, after this these batches were given to CPU.

Now while execution of the process, a scenario may occur in which the process wants to perform some Input/output operation, so in order to do that CPU stop executing that process, until that process completes its I/O operation, but there is a problem that during the I/O operation of the process the CPU becomes “Ideal” which was the biggest disadvantage of Batch operating system.

This operating system was basically a non-pre-emptive operating system, which means if the CPU starts executing a process it will execute it completely, no other process can be executed by it in the mean time (in simple words it was unable to do multi-processing, which almost every operating system nowadays is capable of).

This was all about batch operating system.

I hope that this article was helpful for you. So, if you have any doubts, query or questions regarding this topic/article or just want to share something, then please feel free to contact me.