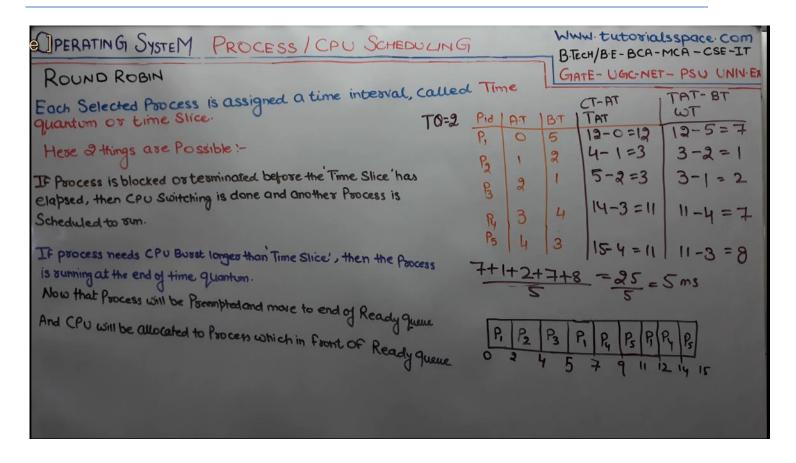


Round Robin Scheduling Algorithm

- Round Robin scheduling algorithm is one of the most popular scheduling algorithm which can actually be implemented in most of the operating systems.
- This is the preemptive version of first come first serve scheduling.
- The Algorithm focuses on Time Sharing. In this algorithm, every process gets executed in a cyclic way.
- A certain time slice is defined in the system which is called time quantum.
- Each process present in the ready queue is assigned the CPU for that time quantum, if the execution of the process is completed during that time then the process will **terminate** else the process will go back to the **ready queue** and waits for the next turn to complete the execution.



<u>Advantages</u>

- 1. It can be actually implementable in the system because it is not depending on the burst time.
- 2. It doesn't suffer from the problem of starvation or convoy effect./
- 3. All the jobs get a fare allocation of CPU.

<u>Disadvantages</u>

1. The higher the time quantum, the higher the response time in the system.

- 2. The lower the time quantum, the higher the context switching overhead in the system.
- 3. Deciding a perfect time quantum is really a very difficult task in the system.

