# CPU SCHEDULING

## Turnaround Time

The time elapsed between the arrival of a process and its completion is known as turnaround time. That is, the duration it takes for a process to complete its execution and leave the system.

Turnaround Time = Completion Time – Arrival Time

**Completion time** - is when a process finishes execution and is no longer being processed by the CPU. It is the summation of the arrival, waiting, and burst times.

**Arrival time** refers to the moment in time when a process enters the ready queue and is awaiting execution by the CPU. In other words, it is the point at which a process becomes eligible for scheduling.

## Waiting Time

This is a process's duration in the ready queue before it begins executing. It helps assess how efficient the scheduling algorithm is.

Waiting Time = Turnaround Time – Burst Time

A scheduling method that consistently results in reduced wait times for processes

**Burst time-** It is the "execution time". It is the amount of CPU time the process requires to complete its execution.