Experiment - 5

Aim :- WAP to implement CPU scheduling using Round-Robin algorithm in non-preemptive way.

Theory :-

Round Robin is a CPU scheduling algorithm where each process is assigned a fixed time slot, called quantum, for execution in a cyclic way.

- It is simple, easy to implement, and starvation-free as all processes get fair share of CPU.

- It is one of the most commonly used technique in CPU scheduling as a core.

- Once a process is executed for given time period, that process is preempted and other process executes for given time period.

- It is preemptive as processes are assigned CPU only for a fixed slice of time at most.

- Context switching is used to save states of preempted processes. The disadvantage of it is more overhead of context switching.