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Lab:6 OS lab Date :28/9/21 Faculty: L. Shyamala

Write one single C /C++ program to simulate different scheduling algorithm in OS.( May be menu driven or functions)

* First come first serve
* Shortest job first
* Short job remaining first
* Priority
* Non pre-emptive
* Preemptive
* Round Robin

Consider the ready queue of OS, the process are present and maintained with their arrival time and expected burst time for execution. Some processes have priority which is also given. Consider the required data to run different scheduling algorithms and analyse the result with respect to average waiting time and turnaround time.

* In priority, lowest number has highest priority
* For time quantum, t = 2 ms.

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| --- | --- | --- | --- | --- |
| **S.no** | **Process ID** | **Arrival time** | **Expected Burst time** | **Priority** |
| 1 | P1 | 0 | 10 | 3 |
| 2 | P2 | 2 | 1 | 1 |
| 3 | P3 | 4 | 2 | 4 |
| 4 | P4 | 7 | 1 | 5 |
| 5 | P5 | 3 | 5 | 2 |