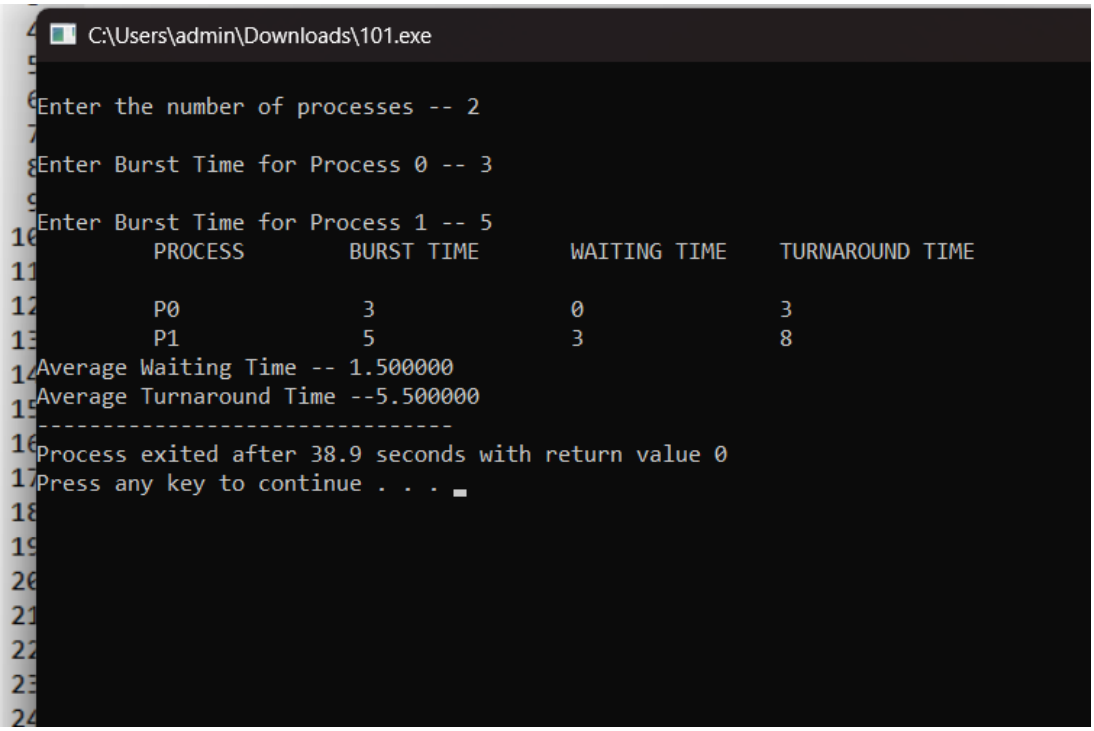
MUHAMMAD AAMIR
DT-22047

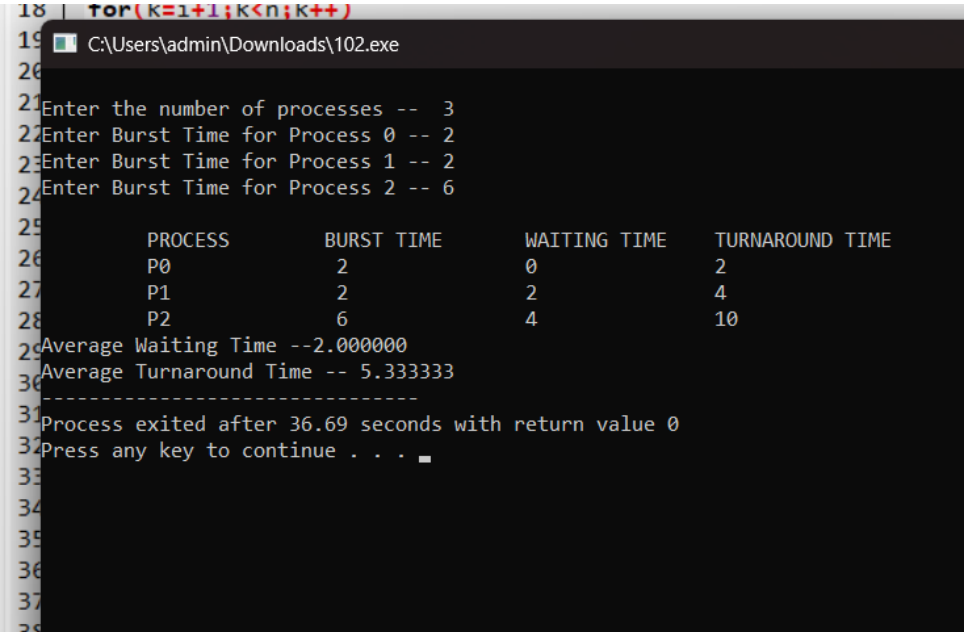
CT-353 Operating Systems

LAB 01

1) FCFS CPU SCHEDULING ALGORITHM



2) SJF CPU SCHEDULING ALGORITHM



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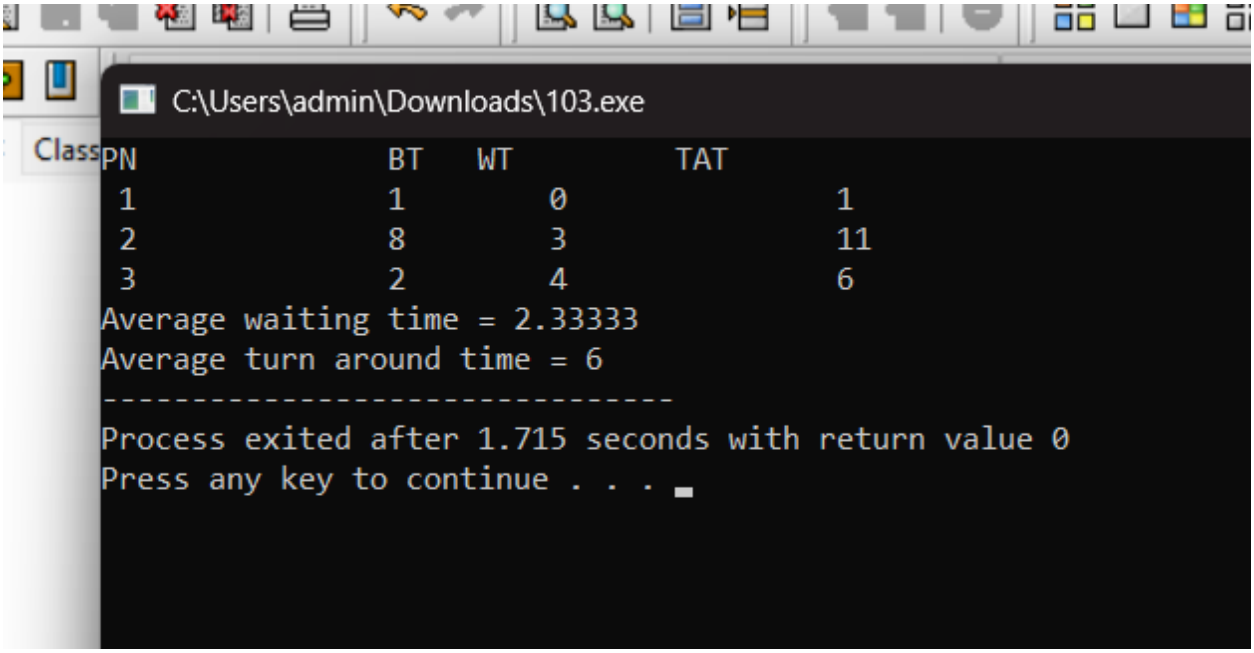
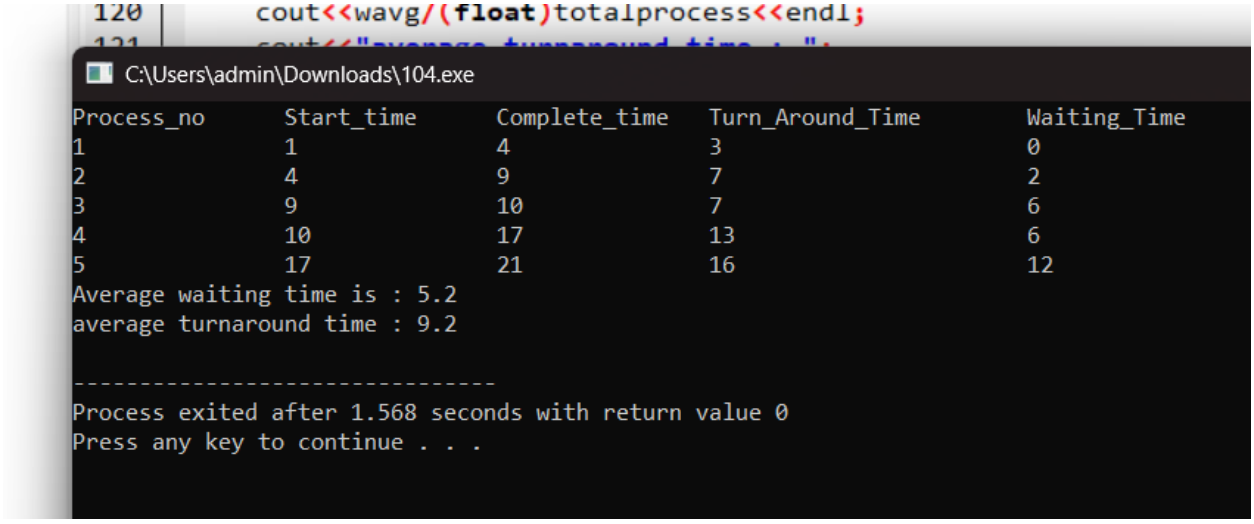
3) ROUND ROBIN CPU SCHEDULING ALGORITHM



4) PRIORITY CPU SCHEDULING ALGORITHM



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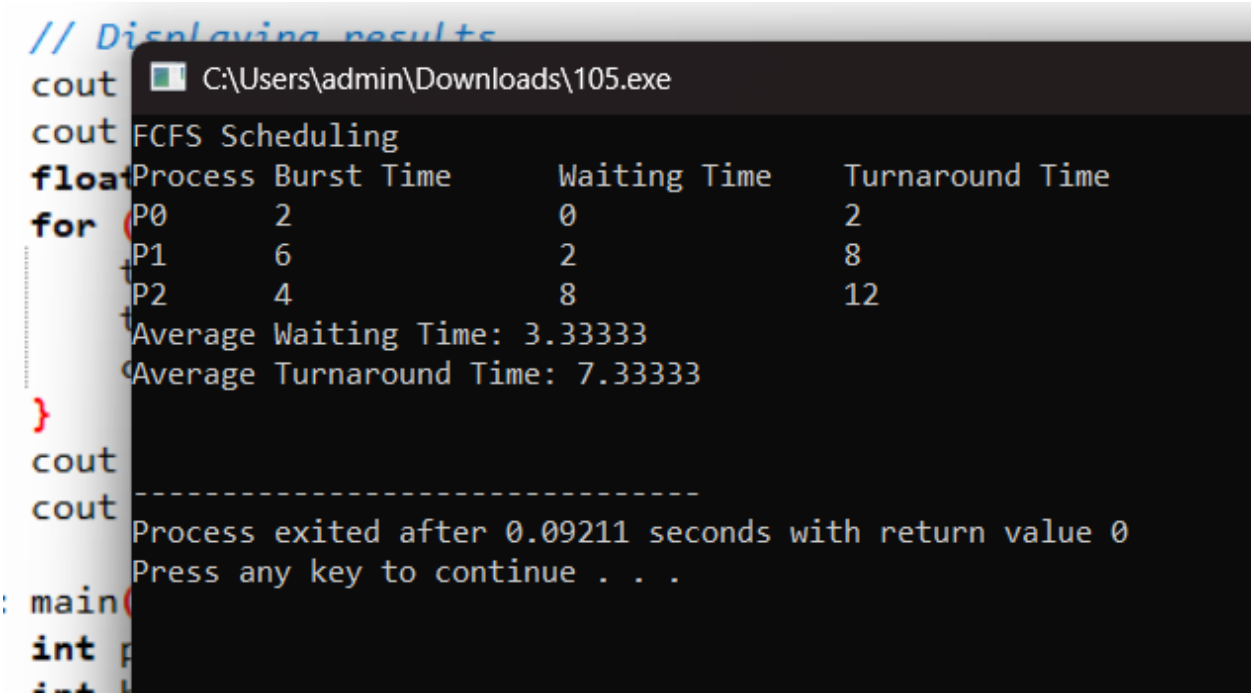
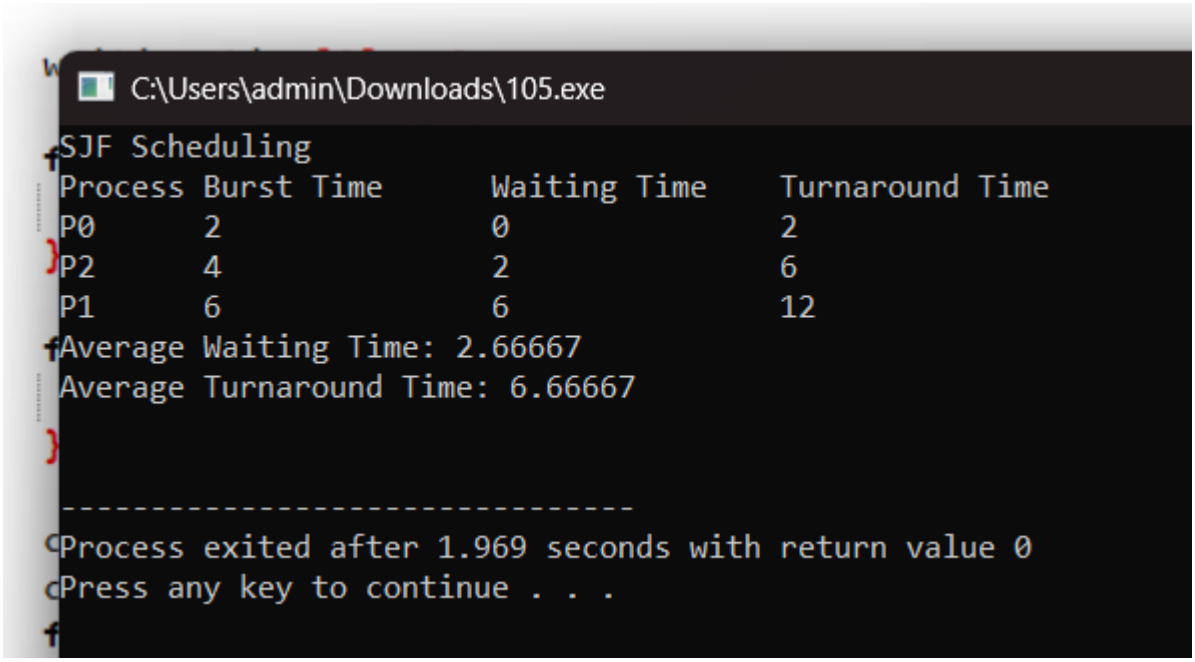
5) Execute all scheduling algorithms on following data and find out the Average Waiting Time and Average Turnaround Time of all scheduling algorithms and discuss your results. (Quantum Value is 3)

FCFS CPU SCHEDULING ALGORITHM



SJF CPU SCHEDULING ALGORITHM



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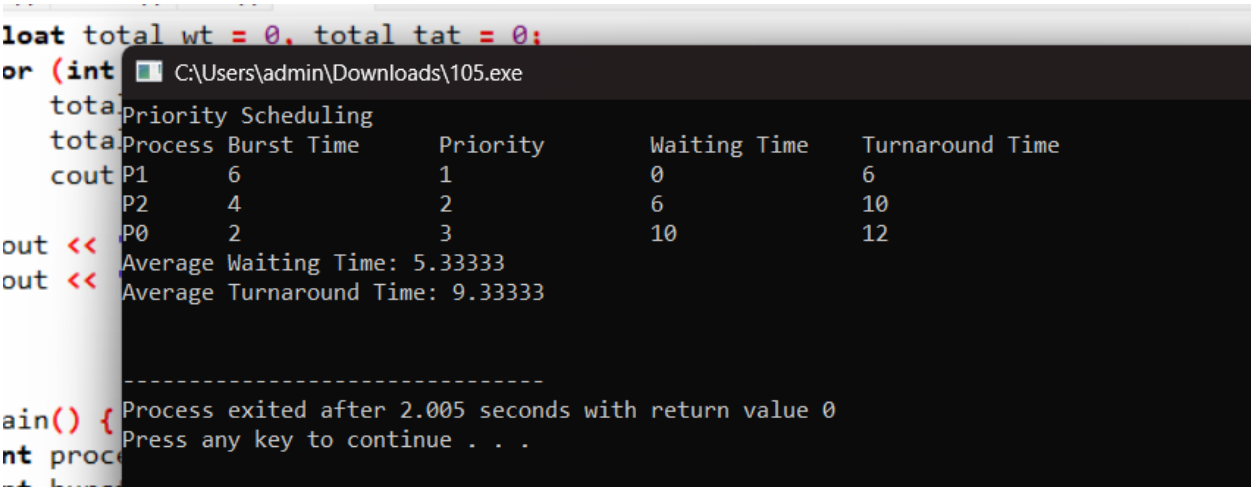
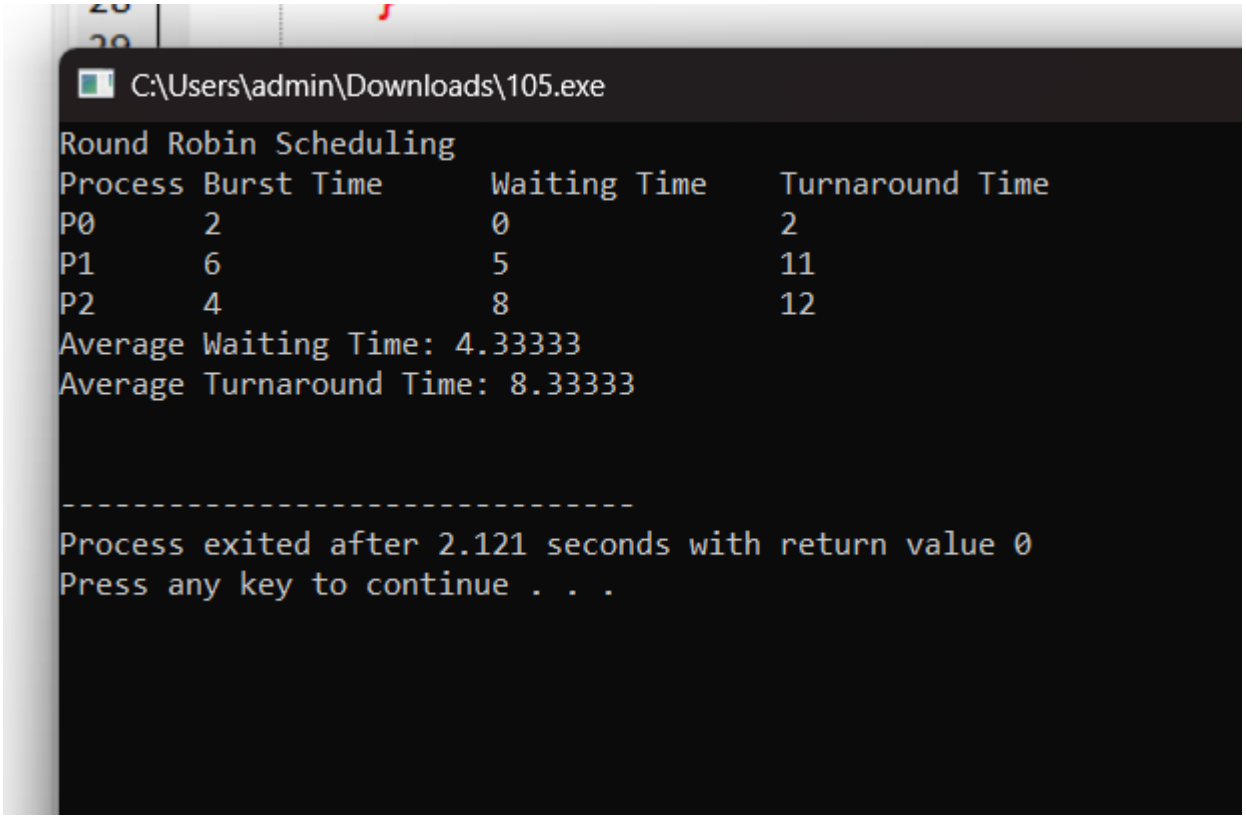
PRIORITY CPU SCHEDULING ALGORITHM



ROUND ROBIN CPU SCHEDULING ALGORITHM



Conclusion

Different CPU scheduling algorithms prioritize processes differently. First-Come, First-Served (FCFS) processes tasks in order of arrival, which can delay longer tasks. Shortest Job First (SJF) prioritizes shorter processes, achieving the lowest average waiting time and turnaround time. Priority Scheduling prioritizes important processes, delaying lower-priority tasks. Round Robin scheduling promotes fairness

through time slicing but may increase average waiting time for shorter processes, highlighting the trade-offs between fairness, efficiency, and responsiveness.