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OS assignment Report

WRITING THE CODE

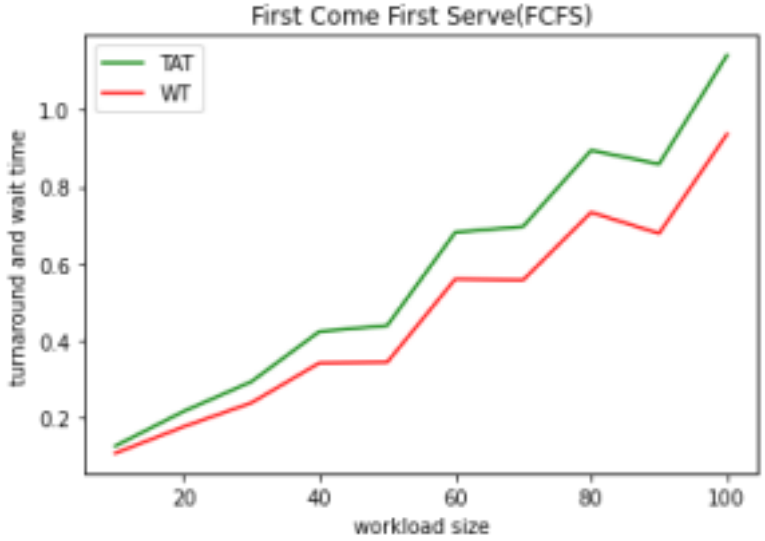
Queue was used to imitate the Gantt chart in Roundrobin and FCFS. We used shared memory for determining the scheduler and to send AWAKE and SLEEP signals.

PLOTTING GRAPHS

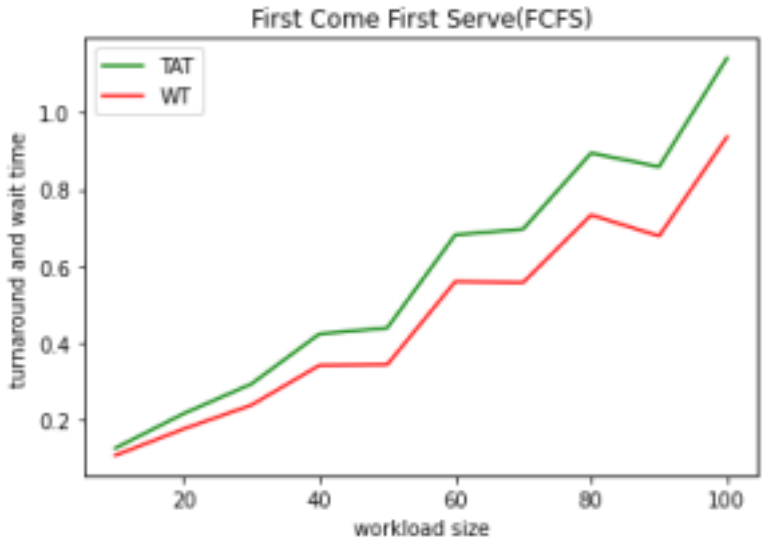
We took 10 different values of workload size with regular intervals of 10 thousand. We then calculated the turnaround time and wait time for the 3 different child processes with 2 different scheduling methods *i.e.* RoundRobin method and First Come First Serve method.

On plotting the graphs for the outputs, we noticed how increasing the workload size affects the turnaround time and waiting time.

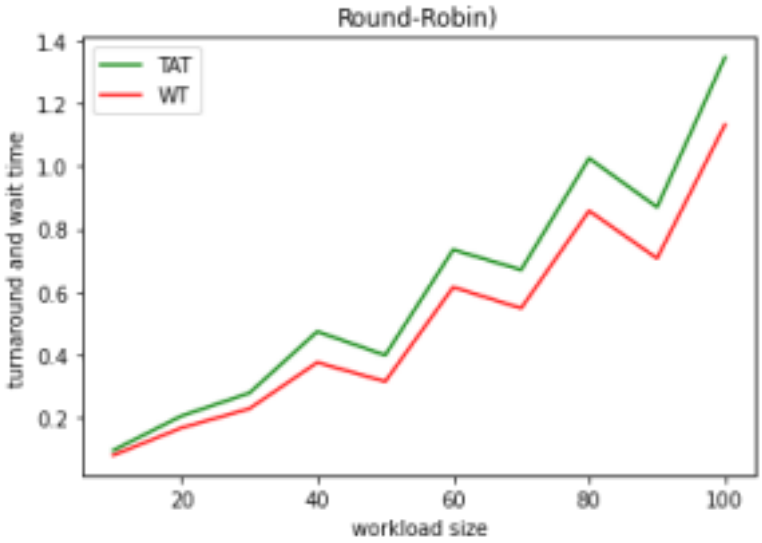
Graph for C1 with FCFS scheduling



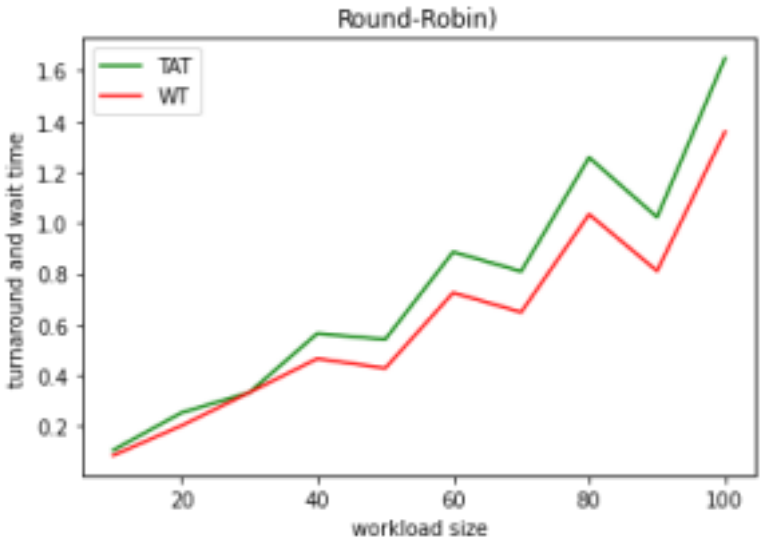
Graph for C2 with FCFS scheduling



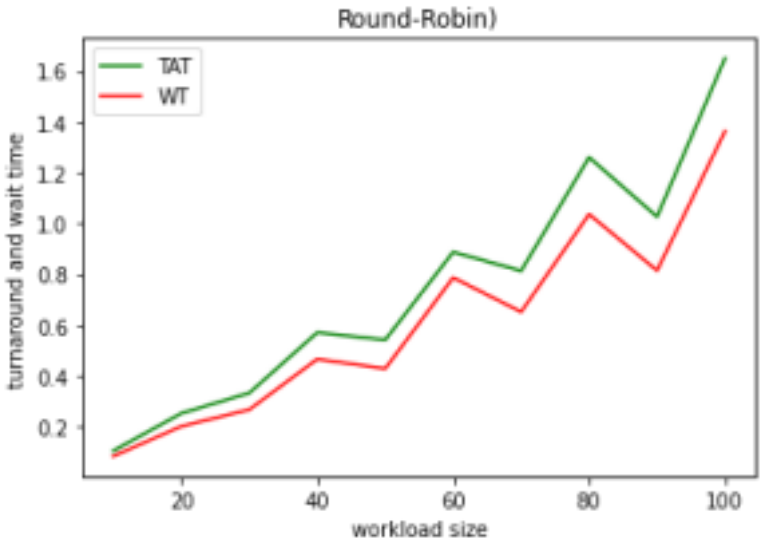
Graph for C3 with FCFS scheduling



C1 in roundrobin



C2 in roundrobin



C3 in roundrobin