OS Assignment

Arjun Prasad – 2019A7PS0183H

Aryan Saraf – 2019A7PS0138H

Baraiya Kruti HarshadKumar – 2019A7PS1260H

Akshat Jain – 2019A7PS0117H

Kommepally Deva Sai Harsha – 2019A7PS0012H
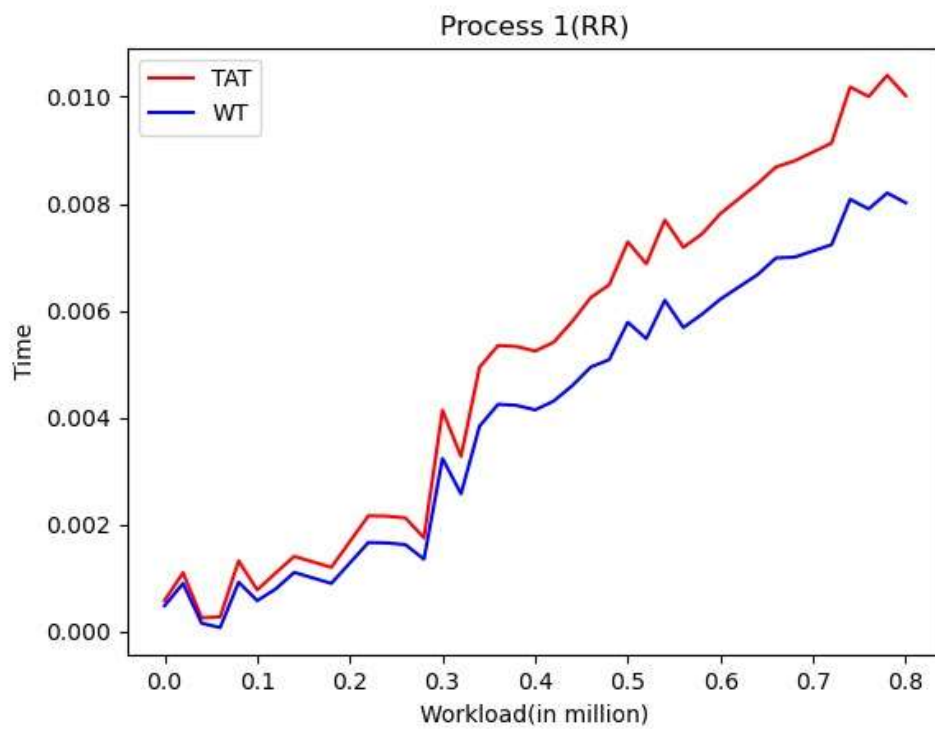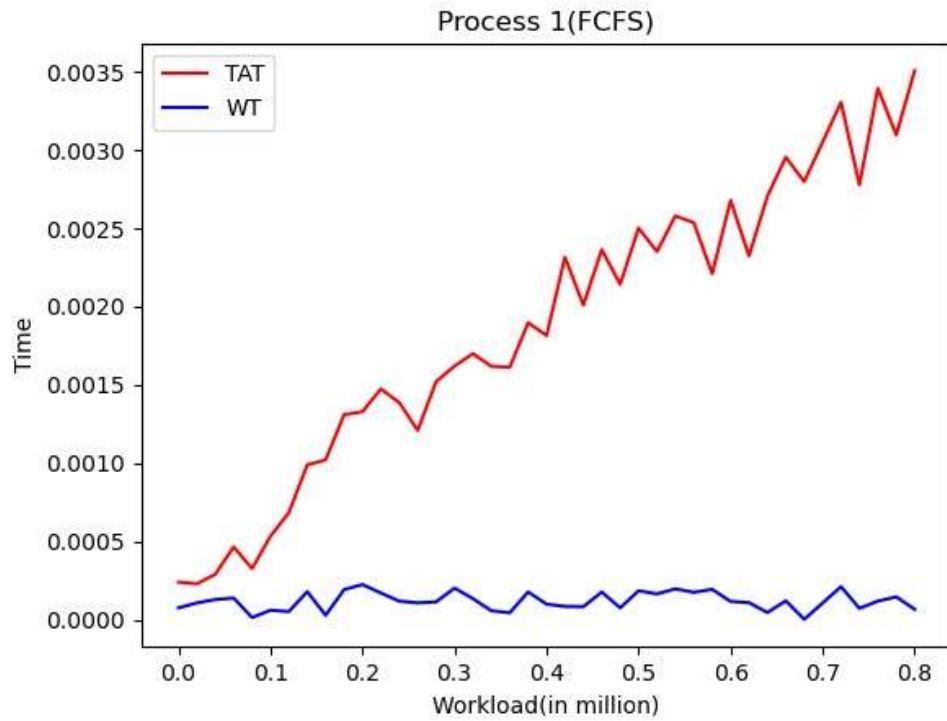
Prakhar Agarwal – 2019A7PS0174H

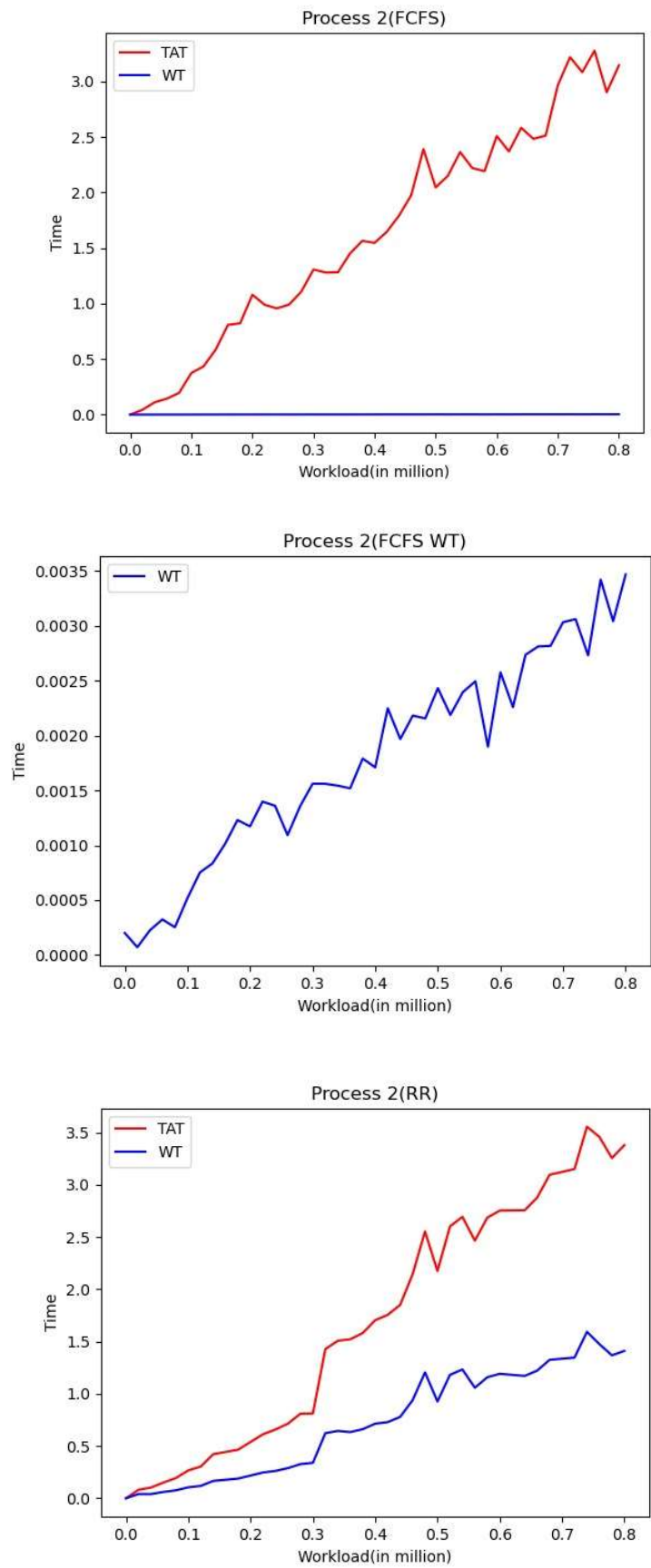Tejas Tripathi - 2019A7PS0059H

Vedansh Srivastava – 2019A7PS0323H

Differences Between FCFS (First Come First Serve) and RR (Round Robin)

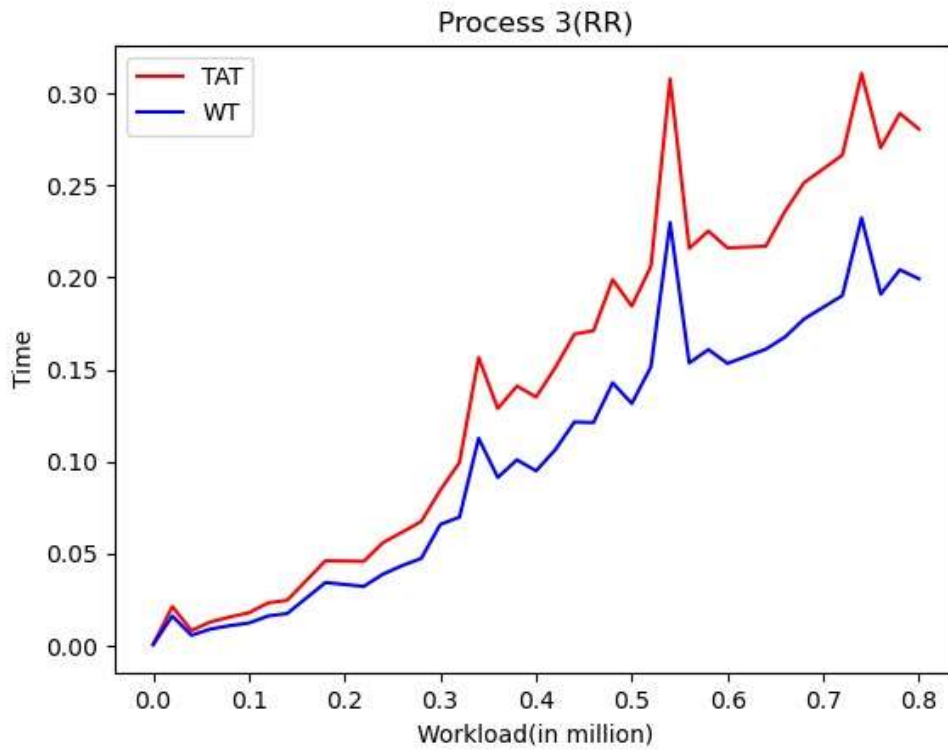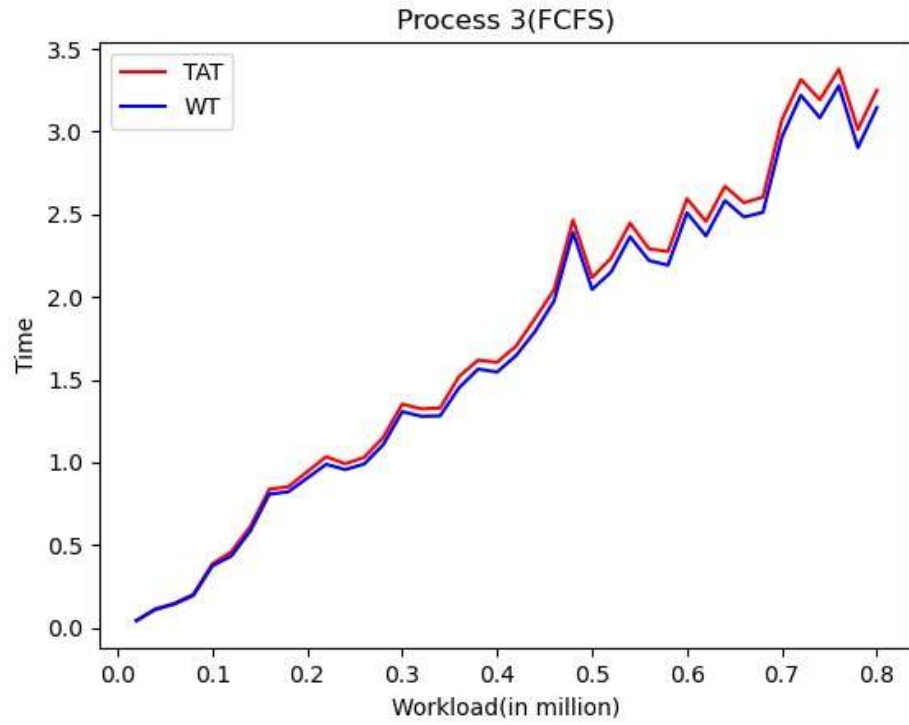| FCFS	RR
First Come First Served (FCFS) is the non-preemptive scheduling algorithm.	Round Robin(RR) is the preemptive scheduling algorithm.
FCFS has the minimal overhead.	While RR has small overhead as it is necessary to record the time elapsed and then switch the process which causes an overhead.
First Come First Served Scheduling Algorithm provides high response time for the processes.	In Round Robin Scheduling Algorithm, for the short processes there is very low response time.
FCFS is inconvenient to use in the time sharing system.	It is mainly designed for the time sharing system and hence convenient to use.

Process 1

Process 1(FCFS)

Process 1(RR)

Process 2

Process 2(FCFS)

Process 2(FCFS WT)

Process 2(RR)

Process 3

Process 3(FCFS)

Process 3(RR)

Conclusion

Process C1

Average Time (sec)	FCFS	RR
TAT	0.002619	0.006508
RT	0.002489	0.001347
WT	0.000130	0.005161

Process C2

Average Time (sec)	FCFS	RR
TAT	1.883871	2.171623
RT	1.881343	1.241547
WT	0.002528	0.930077

Process C3

Average Time (sec)	FCFS	RR
TAT	1.930669	0.184893
RT	0.068763	0.052169
WT	1.861906	0.132724

- For Processes C1 and C2, FCFS has smaller TAT than RR.
- For Process C3, RR has smaller TAT than FCFS.