

# \* System Programming and Operating System (SPOS) - Assignment Number - 4

Name:- Kaustubh Shrikant Kabra.

Class:- Third Year Engineering.

Div:- A

Roll Number:- 38

Batch:- T-2

Department:- Computer Department

College:- AISSMS's IOIT.

## ★ Compare different scheduling algorithms. 1. FCFS, 2. SJF, 3. Priority, 4. RR.

→	Algorithm	Policy type	Used in	Advantages	Disadvantages
①	FCFS	Non-preemptive	Batch	1. Easy to implement. 2. Minimum overhead.	1. Unpredictable turn around time 2. Average waiting is more.
②	SJF	Non-preemptive	Batch	1. Minimizes average waiting time. 2. SJF algorithm is optimal.	1. Indefinite postponement of some jobs. 2. Cannot be implemented at the level of short term scheduling. 3. Difficulty is knowing the length of the next CPU request.



	Algorithm	Policy type	Used in	Advantages	Disadvantages
③	Priority	Non-preemptive	Batch	1. Ensures fast completion of important jobs.	1. Indefinite postponement of some jobs. 2. Faces Starvation problem.
④	RR	Preemptive	Interactive	1. Provides fair CPU allocation. 2. Provides reasonable response times to interactive users.	1. Requires selection of good time slice.