## Paractical No-3

Aim: Wo

Simulate the following CPU scheduling algorithms foor following processes calculate twen around time and moiting time using a) FCFS OR RoundRobin b) SJF OR Painsity

	Porocess	CPU Burest Time	Addival Time
	Pi	3	0
	P <sub>2</sub>	5	1
	ρ3	2	2
	P4	5	3
	Ps	5	4

Leaving Objective:

To leaver and understand the concept of CPU scheduling algasithm.

Theory:

LENT

CPU scheduling algorithms:

CPU scheduling is a perocess of determining which process will own CPV for execution while another process is on hold. The main task of CPU Scheduling is to make sure that whenever the IPU oremains idle , the OS at least select one of the porocesses available in the aready queue for execution. The selection perocess will be carried out by the CPU scheduler. It selects one of the perocesses in memory that are ready for execution.

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specific perocess needs to mait Waiting teme. 00 an amount in the Greaty queue. that

Tues agound Time

period of the total time spent maiting to get into the memory, maiting in the queue and, executing on the cou. The completion time. is the twen the neuround between the time of process submission to the Tuen agound time an tomo. amount of

Types of CPU Scheduling:

Here aue two Kinds of scheduling me thooks :

(a) Pacemptive Scheduling:

task holds for some time, and wesumes when the highest beneathy task finishes its execution. tooks are mostly assigned with their painwites lower perosity task is still sunning. The lower perosity Sometimes pour suity before another lower periodity took over of the of 18 Empostant to sun a task with a highest In percomptive schooling, the

platforms. That's because it doesn't need special handmane the CPU has been allocated to a specific, perocess. The perocess that keeps the CPU busy will evolves the CPU of these by suitching confext our teaminating. It is 76-01 only mothod that can be used example. a times) loke peremptive scheduling. Snangon 1607 hand mane

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Parlosity Based Scheduling: a a method of scheduling amaithon executions. executed the average unating time for other parcesses parcemptore ou non-parcomptore. It significantly execution next. This scheduling method can be soof begrades ad bounds another work work took SIF is a full form of (Showtoot Job Flowst) is a sall from of (Showtoot Job Flowst) is a large alling algorithm in which the pascess with the · tessis dot testroads (IIV) method helps four stoundton face execution of paocesses. acheduling algouithms of smitheagle grillesing Shase of something in tuens. It is mostly used fose exound-exobin pounciple of where each person gets an equal algorithm . The name of this algorithm comes forem the Round wobin is the oldest, simplest schoduling (11) Round - Robin Scheduling: the parocess at the beginning of the queue. of being see ad blunds ti a sord somosad U92 madu cos Recoges Conterol Block) is linked with the tail of the queue. As the percess enteres the secolar queue. The PCB Scheduling method can be managed with a FIFO queue 2 M . tare, y wester allo ups ant stag ups ant atsompose Abidu source of office of a god sint nB. mithingle Brillubands (19) slgnis trom bono tessispe ant si th Fixed come lisest seave is the full from of FEFF. Fiscat Come Figust Souve (FCFS): Page No.

