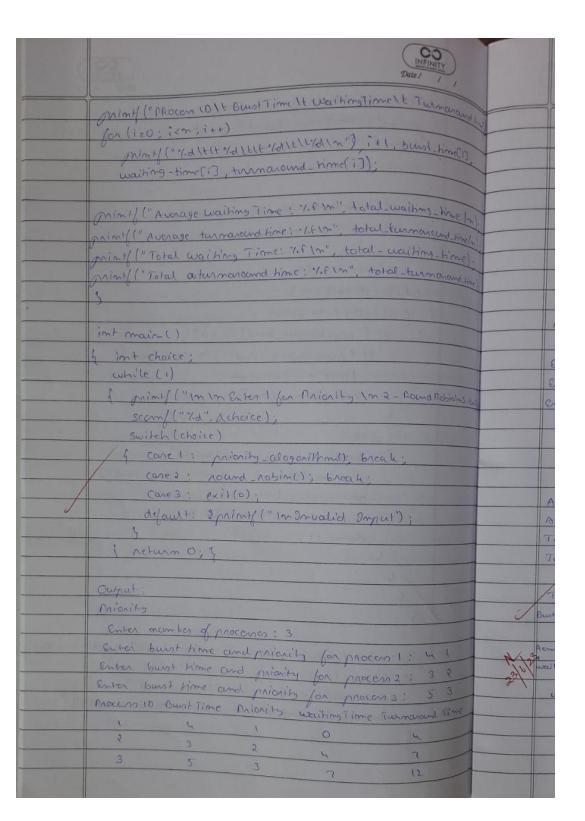
## Priority and SJF

10/10/23	Lab 2 Date / /
0.	Round Robin algorithm
A)_	
	void sup (intra, intrb)  int temp = a;  a = 1b;  b = temp;
nerv <sub>a</sub> A	Void priority-algorithm()
,b(())	mints ("In Enter the mumber of processes:"); scarns ("%-d", km);
);	int burst-time[m], prioxity[m], process_id[m];  (on (i=0; ikm; i++)  I primt("In Enter burst time and priority for process "(d:", i+1);  scarf ("'(d'/d", bburst-time(i), & priority(i));  process_id[i] = i+1;
	for (i=0; i <n-1; (i="i+1;" (i)="" (or="" (pricrity="" f="" i++)="" if="" j++)="" j<m;=""> pricrity (i))  f swap (&amp; pricrity (i), &amp; pricrity (i));  swap (&amp; pricrity (i), &amp; burst-time (i));  swap (&amp; procensid(i), &amp; processid(i));</n-1;>

int waiting time[n], turnaround time[n] total. Home =0, total turnaround Home =0; waiting\_time[0]=0; for (i=1; iem; i++) & waiting-time(i) = waiting-ime(i-1) + burst-time total-waiting-time += waiting-time Ei]. (on (i=o; ikm; i++) 1 turn-around time [i] = waiting-time(i) + bust than total-turnamend time += tarm-around-time(1) mainth (" Mocens ID It Bust Time It Minital t waiting Time It Turnaroud Time (") for (izO; icm; i++) print/ (" " hatter to shat tell of a LENT of a low", it I, burst time is waiting time (i), turnaround time (1); print (" Average whiting Time: "If I'm" tot (float) total watering minty (" runase Turnaround Time: "LEIn", (float) total tunaround mint/ (" Fotal waiting Time: "Id", too total-waiting-time) mint/1" Total Turnaround Time: "Id", total-turnaroundhine void nound\_nobin() 1 into a grantum iii; paint/1" (n Enter number of process: "); sconf (" T.d", am); int burst time (m), waiting time (m), remaining time (m)



		Date / /
South The same		(cali=0; icm; it+)
1		1 prints ("In Enter burst time for process "d", i+1);
_		scorn (" -1-d", a burst-time (i));
1		remaining-hime[1] = burst-hime[1];
		4
10-17 m	FELL BA	print (" In Enter the quantum");
1		scan (" "lid", & quantum);
		int hime = 0, done = 0;
-HimeCin		while (dome ! = m)
		(on (izO; ixm; it+)
		( if ( remaining-time (i3 >0) )
		if (nomaining-time(i) > quantum) {
STime		time + = quantum;
11 30		remaining-time[i] -= quantum;
		4
time (17)		dre
		f hime + : nemerining_hime(i);
1		wouthing_time(i) = time - burst_time[i];
alling thing);		remaining-time(1):0;
curendia)		turnaround-hime (i) = Hime;
me)		dome ++;
Hime ):		S The second sec
		19
	-	4
		1
		and the state of t
		{(cat total-waiting-time = 0, total-turnaround-time = 0;
		for (1=0; i <m; +="waiting-time(i);&lt;/th" i++){="" total-waiting-time=""></m;>
(-0)		lotal-turnaround-hime += turnaround-hime(i);
no(n)		(
	TO THE	





	INFINITY Date/ / /
Had	Average waiting Time: 366
	Average Turnaround Time: 7.66
	Fotal Waiting Time: 11
	Total Turnaround Time: 23
0.	Round Rot Tracing
(2)	Mnocens, Philanity ((3,3), (2,2), (1,1))
	South ms: (1,1), (2,2), (3,3)
mc).	Hence above output
	Round Robin :
	Enter number of process: 3
	Enter bust time for process 1: 4
	Enter burst time for process 2: 3
E.M.	enter burst time for process 3: 5
	Process 10 Bust Time waiting Time Turnaround Time
	1 4 4 8
	2 3 6 9
	3 5 7 12
	Average waiting Time: 5.66
	Average Tarraround Time: 9.66
	Total waiting Time: 17.00
	Total Turnaround Time: 29.00
	Tracing
	Burt 4 3 5 2 1 3 0 0 0 PI (Time) : 68
_	P1 P2 P3 P1 P2 P3 P1 P2 P3 P2 (7 ime) = 9
1	2 cm n-1:2 3-7:1 5-2:3 27:0 1-1:0 3-7:1 0 0 1-1:0 13 (Time) = 12
2	
_	wait Time = Total - Bust
re	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	03 = 12-5 = 7

```
Enter 1 for Priority Algorithm
2 for Round Robin
3 for exit: 1
Enter the number of processes: 3
Enter burst time and priority for process 1: 4 1
Enter burst time and priority for process 2: 3 2
Enter burst time and priority for process 3: 5 3
Process ID Burst Time Priority
                                   Waiting Time Turnaround Time
       4
               1
                       0
       3
               2
                       4
                               7
       5
                       7
               3
                               12
Average waiting time: 3.666667
Average turnaround time: 7.666667
Total Waiting time: 11
Total Turnaround time: 23
```

```
Enter 1 for Priority Algorithm
2 for Round Robin
3 for exit: 2
Enter the number of processes: 3
Enter burst time for process 1: 4
Enter burst time for process 2: 3
Enter burst time for process 3: 5
Enter time quantum: 2
Process ID Burst Time Waiting Time Turnaround Time
       4
               4
       3
2
               6
                        9
       5
               7
                        12
Average waiting time: 5.666667
Average turnaround time: 9.666667
Total Waiting time: 17.000000
Total Turnaround time: 29.000000
```