Lab 3: Write a C program to simulate the following CPU scheduling algorithm to find turnaround time and waiting time.

- → Priority (pre-emptive or Non-pre-emptive)
- →Round Robin (Experiment with different quantum sizes for RR algorithm)

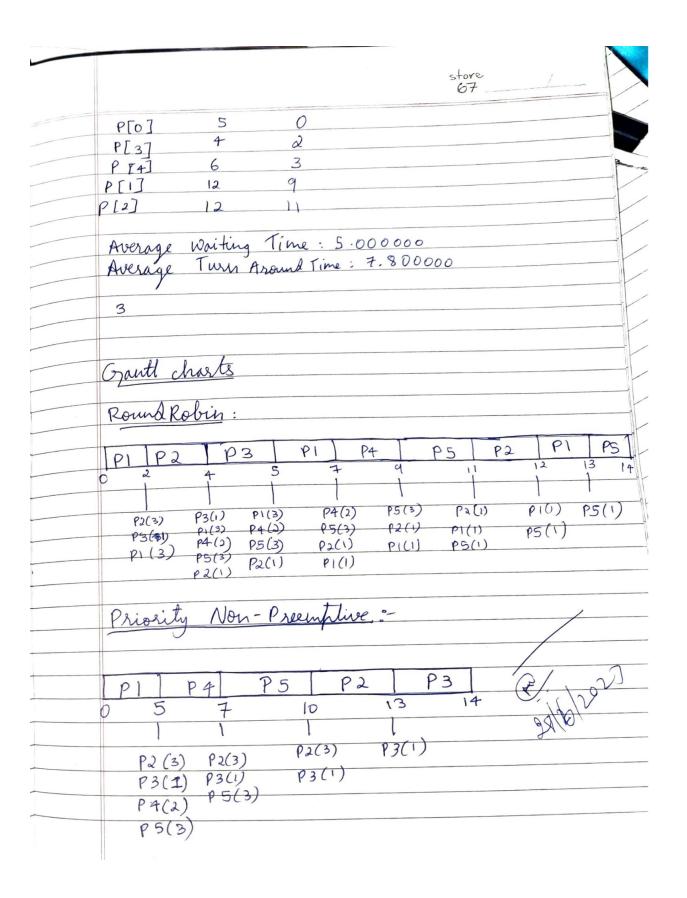
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Scheduling sugares	
Privait (Non per-amplive))
· Pour A Pobin	
Si Write a Chrogram to simulate scheduling absorthm to find waiting time Priority (Non per-compline). Round Robin.	
#tinclude <stdio.h> int n, at [20], cput(20];</stdio.h>	
int n, at [20], cout (20);	
void round Robin ()	
7	
int T&) i; int remaining time [n]; int completed processes = 0;	
int remaining time (n)	wt(n7, tat[n];
int completed processes = 01	current time = 0.
los (i=0; i < n; i++)	
for (i=0; i <n; (i]="cp</td" i+t)="" remaining-time=""><td>rut[i];</td></n;>	rut[i];
- with the second	
print ("Enter the time start ("% od", & TB); // Round Robin Scheduling while (completed proces	quartum :");
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while (completed process	ses (h)
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for (i =0; i'< h; i++)	
2	
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if (Remaining - time Coursent - time)
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1/22	[:] (=+A)
if (remaining - tuid	2 [1] 19/
2	
argent_time + =	remaining time [i];
	-

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remaining-time[i]=0;
completed_processess + +;
               tat [i] = current_time - at[i];
wt [i] = tat [i]-cput[i];
            else
                current-time + = 18;
remaining - time [i] - = +8;
   float as any fat = 0, any ut = 0.
    ougtat /= n)
   unt (" In Process \t CPU Time \t Argural Time \t
urnaroud Time \t Waiting Time \n");
for (i = 0; i < n; i+t)

frint ("old \ to/od \ t \ lod \ t \ lod \ t \ lod \ h')
            i cput(i], at (i], tat [i], wot[i]),
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curs-hp=i + copeputa [curr hp]-at [curr hp] any gotat = time + court [curs hp] - at lange aught + = time - at (curs_hp] time + = cput (cars hp]; could [curs-hp]=0; augant = augut/n; fruits ("Average Waiting Time fruits ("In Average TAT time void main () inti, ch; frints ("In Enter the number of stanf ("0/0d", In); for the Process % od: ", i);
[" % od % od " f at [i], fcpvt(i]);

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		nd Robin			
	2. Prio	rity			
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	Process	CPU Time	Arrival Time	Turnaround Time	White: T
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) .	3	1	11	8
	2	1	2	3	2
	3	2	3	4	2
	4	3	4	9	6
	Average	TAT:	8-20		
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2,	Priority			5 784	
3.				= 746	
2,	Priority	172		- 744	
2.	Priority Enit				
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2, 2, 2 En	Priority Enit		he Process		



OUTPUT:

