## TA\_practice(助教加分- Scheduling)

## 練習題如下:

## Scheduling

Process	arrival Time	Burst Time	Priority	
P1	0	7	3	
P2	2	1	1	
P3	4	4	4	
P4	6	8	5	
P5	8	5	2	

請使用FCFS、SJF、SRTF、Priority 計算下列的Average Turnaround time 、Average Waiting time

## 要求:

- A. 請標註題號
- B. 每題請附上 Gantt Chart、Average Turnaround time、
  Average Waiting time
- C. 共四題
- D. 可以放上截圖照片在 word 上 (但請保持文字與圖像的可辨識性為限)
- E. 請繳交 word 檔 (檔名為: s+學號.docx)

G 1 1 1				Turnaround Time (TAT, 同轉時間)	
Schedul	_	D	n testes		
Process P1	arrival Time 0	Burst Time 7	Priority 3	TAT = CT - AT	
P2	2	1	1		
P3	4	4	4	Waiting Time (WT, 等待時間)	
P4 P5	6 8	8 5	5	· ·	
	Ü		-	wt = TAT - BT	
	SJF · SRTF · Priority	計算下列的Average	e Turnaround time		
Average Waitin	ig time			Response Time (RT, 响應時間)	
				RT = FET - AT	
FCFS	P <sub>1</sub> P <sub>2</sub>	P3 P4	P <sub>5</sub>		
0 1 8 12 20 25					
ATAT: $[(1-0)+(8-2)+(12-4)+(20-6)+(25-8)]/5 = 52/5 = 10.4 \text{ ms}$					
A WT: $[52-(7+1+4+8+5)]/5 = 5.4 \text{ ms}$					
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
SRTF	D,   D	D. 0.	D. D.		
2617			P5 P4		
	0 2	3 8 1	2 17 25		
	ATAT : [[	8-0)+(3-	2) + (12-4) + (25	(5-6)+(11-8)]/5=45/5=9 ms	
AWT: [45 - (1+1+4+8+5)]/5 = 20/5 = 4 ms					
		10	,,,,,,		
SJF	D. P.	P. D.	P <sub>4</sub>		
0 1 8 12 19 25					
ATAT: $[(1-0)+(8-2)+(12-4)+(17-8)+(>5-6)]/5=49/5=9.8 \text{ m}$					
AWT: $[49-(9+1+4+8+5)]/5 = 24/5 = 4.8 \text{ ms}$					
	,	(,,,,	( ( ( ( ) ( ) ( ) ( ) ( ) ( ) ( )	173 (.0)	
0		n   n			
Prioriti	y 111 12	Pi Ps	P3 P4		
	0 2	3 8	13 11 25		
ATAT: $[(8-0)+(3-2)+(19-4)+(25-6)+(13-8)]/5 = \frac{46}{5} = 9.2 \text{ ms}$					
AWT: [46-(1+1+4+8+5)]/5 = 21/5 = 4.2 mg					
		, , , ,	/ - / - /		

ms