POLITICAL PARTIES' ROLE

FOR PROSPERITY AND DEMOCRATIZATION IN ASEAN COUNTRIES

Nama : Prames Ray Lapion

NPM : 140810210059 - A

Matkul : Sistem Operasi

1.

Proses	Arrival Time	Burst Time
P_1	0	6
P_2	1	8
P_3	2	10
P_4	3	5

a.

P_1 P_2 P_3 P_4

0　6　14　24　29

$$FcFs = \frac{0+5+12+24}{4} = 9,5$$

b. SJF - Preemptive

P_1 P_1 P_1 P_1 P_4 P_2 P_3

0　1　2　3　6　11　19　29

P(1)=6　P(1)=5　P(1)=4　P(1)=3　P(2)=8　P(2)=8　P(3)=10

　　P(2)=8　P(2)=8　P(2)=8　P(3)=10　P(3)=10

　　　　P(3)=10　P(3)=10　P(4)=5

　　　　　　P(4)=5

WT : $P_1 = 0$

$P_2 = 11-1 = 10$

$P_3 = 19-2 = 17$

$P_4 = 6-3 = 3$

AWT = $\frac{0+10+17+3}{4} = \frac{30}{4} = 7,5$

c.

WT: $P_1 = 0 + (6-2) + (14-8) = 10$

$P_2 = (2-1) + (10-4) + (18-12) + (23-20) = 16$
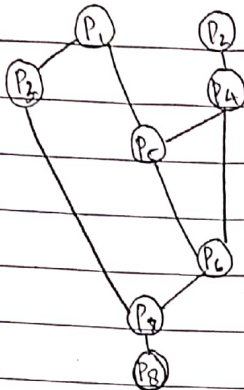
$P_3 = (4-2) + (12-6) + (30-14) + (25-22) + 0 = 17$

$P_4 = (8-3) + (16-10) + (22-18) = 15$

AWT = $\frac{10+16+17+15}{4} = \frac{58}{4} = 14,5$

2.

$$P: [\ (P_1, P_2, P_3, P_4, P_5, P_6, P_7, P_8)$$
$$\{(P_1, P_3), (P_1, P_5), (P_2, P_4), (P_3, P_7), (P_4, P_5), (P_4, P_6),$$
$$(P_5, P_6), (P_6, P_7), (P_2, P_8)\ \}$$
$$]$$

3.

```
Procedure xx () {
    while ( true ) {
        ( x = 10 ;  < Fork (L1) > ;  < hitung P2 > ; );
        ( y = 3 ;  < hitung P4 > ;  < Fork (L1) > ;  < goto (L1) > ; );

        L1: Join (P4);
            < hitung P5 > ;
            < goto (L2) > ;

        L2: Join (P5) ;
            < hitung P6 > ;
            < goto (L3) > ;

        L3: Join (P6) ;
            < hitung P7 > ;
            < hitung P8 > ;
            Quit () ;
    }
}
```