PRACTICAL 4TH

CODE :

Programiz C Online Compiler

main.c

Share Run

```c
#include <stdio.h>

int main() {
    int n = 3;
    int at[3] = {0, 2, 6};
    int bt[3] = {10, 20, 30};
    int ct[3] = {10, 30, 60};
    int tat[3], wt[3];
    float total_wt = 0;

    for(int i=0; i<n; i++) {
        tat[i] = ct[i] - at[i];
        wt[i] = tat[i] - bt[i];
        total_wt += wt[i];
    }

    printf("Process\tAT\tBT\tCT\tTAT\tWT\n");
    for(int i=0; i<n; i++) {
        printf("P%d\t%d\t%d\t%d\t%d\t%d\n", i+1, at[i], bt[i], ct[i], tat[i], wt[i]);
    }

    printf("\nTotal Context Switches = 2");
    printf("\nAverage Waiting Time = %.2f\n", total_wt/n);

    return 0;
}
```

OUTPUT :

Output

```
Process AT  BT  CT  TAT WT
P1  0   10  10  10  0
P2  2   20  30  28  8
P3  6   30  60  54  24

Total Context Switches = 2
Average Waiting Time = 10.67


=== Code Execution Successful ===
```