Experiment 3

```c
#include <stdio.h>

int main()
{
    int n, i;
    int bt[10], wt[10], tat[10];
    float avg_wt = 0, avg_tat = 0;

    printf("Enter number of processes: ");
    scanf("%d", &n);

    printf("Enter burst time of each process:\n");
    for (i = 0; i < n; i++)
    {
        scanf("%d", &bt[i]);
    }

    wt[0] = 0;

    for (i = 1; i < n; i++)
    {
        wt[i] = wt[i - 1] + bt[i - 1];
    }

    for (i = 0; i < n; i++)
    {
        tat[i] = wt[i] + bt[i];
        avg_wt += wt[i];
        avg_tat += tat[i];
    }

    printf("\nProcess\tBurst\tWaiting\tTurnaround\n");
    for (i = 0; i < n; i++)
    {
        printf("P%d\t%d\t%d\t%d\n", i + 1, bt[i], wt[i], tat[i]);
    }

    printf("\nAverage Waiting Time = %.2f\n", avg_wt / n);
    printf("Average Turnaround Time = %.2f\n", avg_tat / n);

    return 0;
}
```

```
Enter number of processes: 4
Enter burst time of each process:
5 3 8 6

Process Burst   Waiting Turnaround
P1      5       0       5
P2      3       5       8
P3      8       8       16
P4      6       16      22

Average Waiting Time = 7.25
Average Turnaround Time = 12.75

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Process exited after 12.86 seconds with return value 0
Press any key to continue . . .
```