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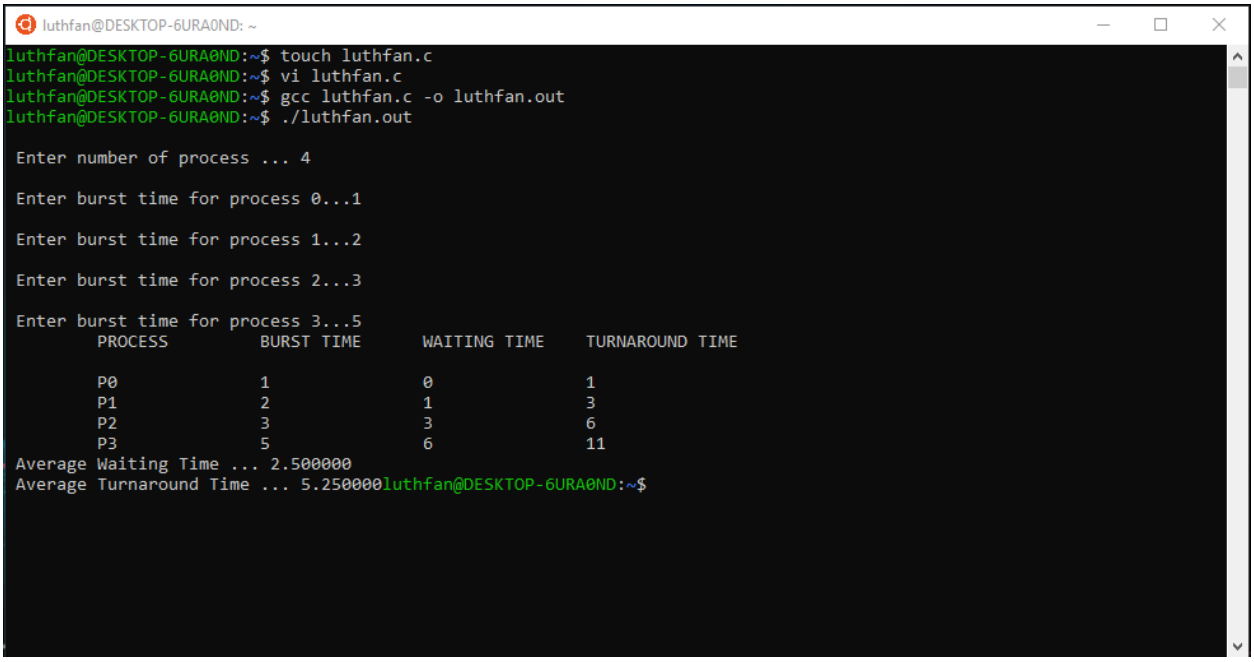
Program Penjadwalan Proses dan Hasil Eksekusi

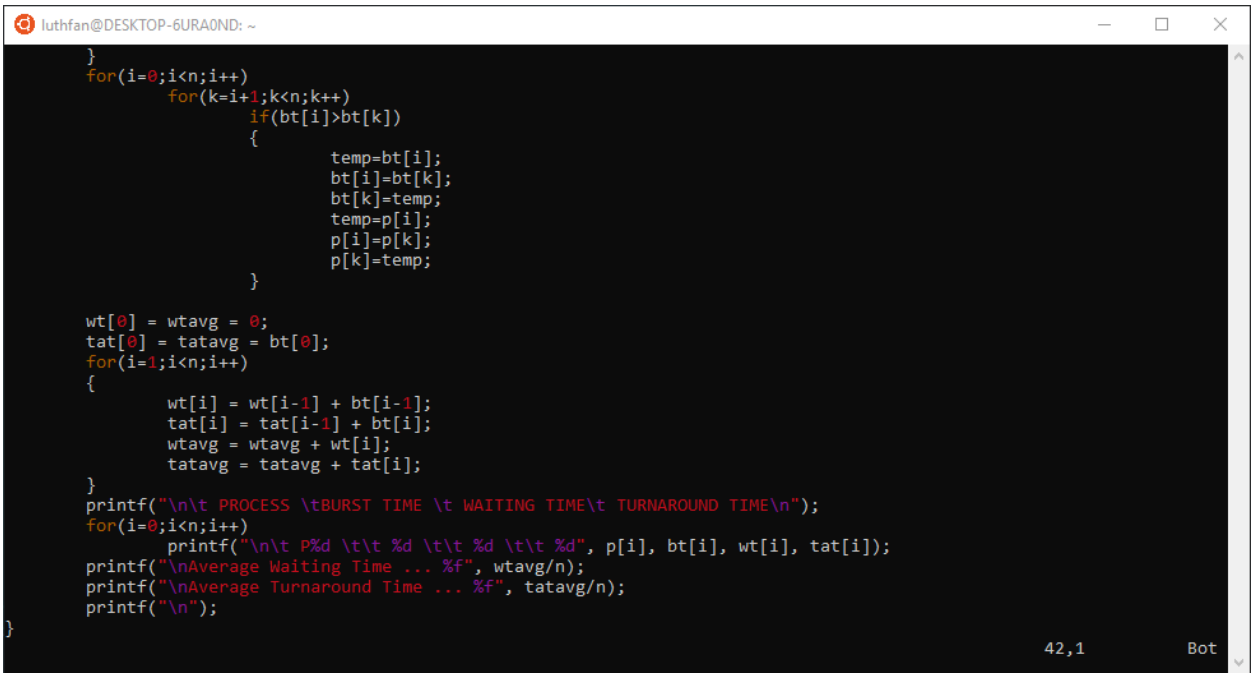
1. **First-come, First-served (FCFS)**

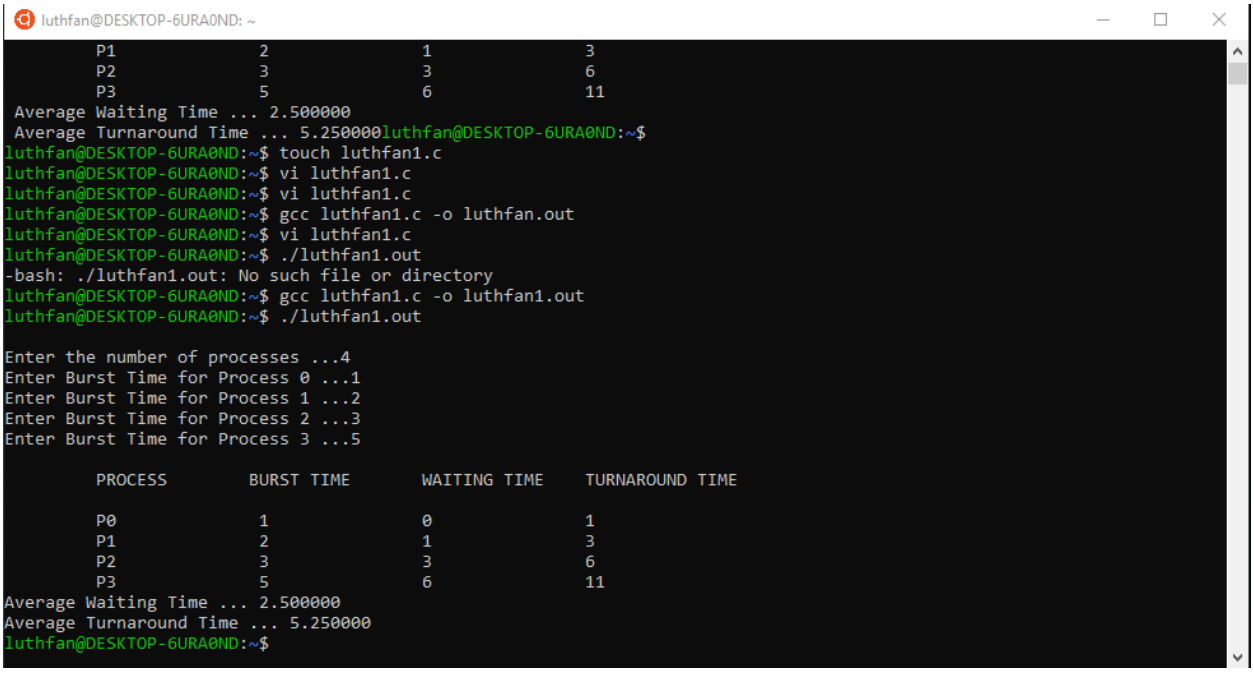
luthfan@DESKTOP-6URA0ND: ~

```
#include <stdio.h>

int main()
{
        int bt[20], wt[20], tat[20], i, n;
        float wtavg, tatavg;
        printf("\n Enter number of process ... ");
        scanf("%d", &n);
        for(i=0; i<n; i++)
        {
                printf("\n Enter burst time for process %d...", i);
                scanf("%d", &bt[i]);
        }
        wt[0] = wtavg = 0;
        tat[0] = tatavg = bt[0];

        for(i=1; i<n; i++)
        {
                wt[i] = wt[i-1] + bt[i-1];
                tat[i] = tat[i-1] + bt[i];
                wtavg = wtavg + wt[i];
                tatavg = tatavg + tat[i];
        }
        printf("\t PROCESS \t BURST TIME \t WAITING TIME \t TURNAROUND TIME \n");
        for(i=0; i<n; i++)
                printf("\n\t P%d \t\t %d \t\t %d \t\t %d", i, bt[i], wt[i], tat[i]);
        printf("\n Average Waiting Time ... %f", wtavg/n);
        printf("\n Average Turnaround Time ... %f", tatavg/n);
}
~
~
~
~
~
~
~
-- INSERT --                                                    28,1          All
```

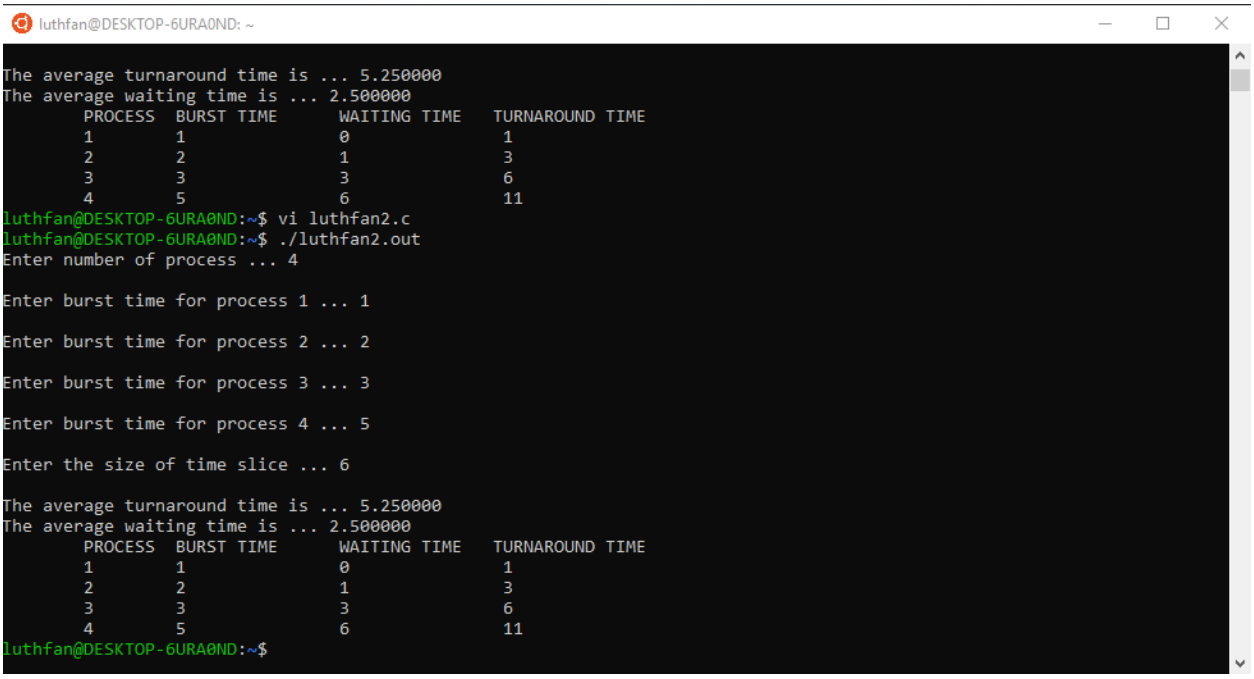


2. Shortest-Job-First (SJF)





3. Round-Robin (RR)


luthfan@DESKTOP-6URA0ND: ~
The average turnaround time is ... 5.250000
The average waiting time is ... 2.500000
PROCESS BURST TIME WAITING TIME TURNAROUND TIME
1 1 0 1
2 2 1 3
3 3 3 6
4 5 6 11
luthfan@DESKTOP-6URA0ND:~$ vi luthfan2.c
luthfan@DESKTOP-6URA0ND:~$ ./luthfan2.out
Enter number of process ... 4
Enter burst time for process 1 ... 1
Enter burst time for process 2 ... 2
Enter burst time for process 3 ... 3
Enter burst time for process 4 ... 5
Enter the size of time slice ... 6
The average turnaround time is ... 5.250000
The average waiting time is ... 2.500000
PROCESS BURST TIME WAITING TIME TURNAROUND TIME
1 1 0 1
2 2 1 3
3 3 3 6
4 5 6 11
luthfan@DESKTOP-6URA0ND:~$