```
cse16@localhost:~
#include <stdio.h>
int main() {
    int burst_time[10], waiting_time[10], turnaround_time[10];
int total_waiting_time = 0, total_turnaround_time = 0;
    float avg_waiting_time, avg_turnaround_time;
    // Step 1: Get the number of processes from the user
    printf("Enter the number of processes: ");
    scanf("%d", &n);
    // Step 2: Read the burst times for each process
printf("Enter the burst time of the processes:\n");
         scanf("%d", &burst_time[i]);
    // Step 3: Calculate the waiting time and turnaround time for each process
    waiting_time[0] = 0; // Waiting time for the first process is 0
     // Calculate waiting time for all processes except the first one
         waiting_time[i] = burst_time[i - 1] + waiting_time[i - 1];
     // Calculate turnaround time and total waiting time, total turnaround time
         turnaround_time[i] = burst_time[i] + waiting_time[i];
         total_waiting_time += waiting_time[i];
         total turnaround time += turnaround time[i];
    // Step 4: Display the process name, burst time, waiting time, and turnaround time printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time\n");
         printf("%d\t%d\t\t%d\n", i, burst_time[i], waiting_time[i], turnaround_time[i]);
    // Step 5: Calculate and display the average waiting time and average turnaround time
    avg waiting time = (float)total waiting time / n;
    avg turnaround time = (float)total turnaround time / n;
    printf("\nAverage waiting time is: %.2f", avg_waiting_time);
printf("\nAverage Turnaround Time is: %.2f", avg_turnaround_time);
    return 0;
```

```
Enter the number of processes: 3
Enter the burst time of the processes:
24 3 3
Process Burst Time
                        Waiting Time
                                         Turnaround Time
        24
                        0
                                         24
1
                        24
                                         27
2
        3
                                         30
Average waiting time is: 17.00
Average Turnaround Time is: 27.00[csel6@localhost ~]$ ^C
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Enter the number of processes: 4
Enter the burst time of the processes:
8 4 9 5
Process Burst Time
                         Waiting Time
                                          Turn Around Time
2
        4
                         0
                                          4
4
                         4
1
                         9
                                          17
3
                         17
                                          26
Average waiting time: 7.50
Average turn around time: 14.00
```

```
Enter Total Number of Processes: 4
Enter Burst Time and Priority for P[1]:
Burst Time: 6
Enter Burst Time and Priority for P[2]:
Burst Time: 2
Priority: 2
Enter Burst Time and Priority for P[3]:
Burst Time: 14
Priority: 1
Enter Burst Time and Priority for P[4]:
Burst Time: 6
Priority: 4
Process Burst Time
                        Waiting Time
                                        Turnaround Time
P[2]
P[1]
P[4]
Average Waiting Time = 13.00
Average Turnaround Time = 20.00
[csel6@localhost ~]$
```

```
Enter Total Number of Processes: 4
Enter Details of Process [1]:
Arrival Time: 0
Burst Time: 4
Enter Details of Process [2]:
Arrival Time: 1
Burst Time: 7
Enter Details of Process [3]:
Arrival Time: 2
Burst Time: 5
Enter Details of Process [4]:
Arrival Time: 3
Burst Time: 6
Enter Time Quantum: 1
Process ID
             Burst Time
                               Turnaround Time Waiting Time
Process [1]
                                13
                                                14
Process [2]
                               21
                                16
                                                11
Process [3]
                6
                                18
                                                12
Process [4]
Average Waiting Time: 11.500000
Average Turnaround Time: 17.000000
```