## Practical 6

Write program to implement FCFS scheduling algorithm.

## CODE

```
#include<iostream>
using namespace std;
int main()
    cout<<"Please enter the number of processes: ";</pre>
    cin>>n;
    int burst_time[n];
    for( int i=1; i<=n; i++)</pre>
        cout<<"Please enter the Burst time for P"<<i<!: ";</pre>
        cin>>burst time[i];
    int wt_time[n];
    wt_time[1]=0;
        wt_time[i]=wt_time[i-1]+burst_time[i-1];
    int turnaround_time[n];
        turnaround_time[i]=wt_time[i]+burst_time[i];
    float avg_wait_time=0, avg_turnaround_time=0;
```

```
for( int i=1; i<=n; i++)</pre>
     cout<<" Burst Time \tWaiting Time \tTurnaround Time"<<endl;</pre>
  for( int i=1; i<=n; i++)</pre>
     round_time[i]<<endl;</pre>
  avg_wait_time= avg_wait_time/n;
  avg_turnaround_time= avg_turnaround_time/n;
  cout<<"\nAverage Waiting time = "<<avg_wait_time<<endl;</pre>
  cout<<"\nAverage Turnaround time = "<<avg_turnaround_time<<endl;</pre>
  return 0;
```

## **OUTPUT**

```
→ OSPracticals g++ Practical6.cpp -o Practical6
→ OSPracticals ./Practical6
Please enter the number of processes: 4
Please enter the Burst time for P1: 21
Please enter the Burst time for P2: 7
Please enter the Burst time for P3: 14
Please enter the Burst time for P4: 3
     Burst Time
                       Waiting Time
                                        Turnaround Time
        21
                        0
Р3
        7
                        21
                                        28
Ρ4
        14
                        28
                                        42
P5
                        42
                                        46
Average Waiting time = 22.75
Average Turnaround time = 34.25
→ OSPracticals
```