**Practical 6**

Write program to implement FCFS scheduling algorithm.

**CODE**

*//FCFS scheduling algorithm*

#include<iostream>

using *namespace* std;

*int* main()

{

*int* n;

    cout<<"Please enter the number of processes: ";

    cin>>n;

*int* burst\_time[n];

    for(*int* i=1; i<=n; i++)

    {

        cout<<"Please enter the Burst time for P"<<i<<": ";

        cin>>burst\_time[i];

    }

*int* wt\_time[n];

    wt\_time[1]=0;

    for(*int* i=2; i<=n; i++) *//calculating waiting time for each process*

    {

        wt\_time[i]=wt\_time[i-1]+burst\_time[i-1];

    }

*int* turnaround\_time[n];

    for(*int* i=1; i<=n; i++) *//calculating turnarond time for each process*

    {

        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++)

    {

        avg\_wait\_time+= wt\_time[i]; *//calculating sum of waiting time of all process*

        avg\_turnaround\_time+= turnaround\_time[i]; *//calculating sum of trunaround time of all process*

    }

    cout<<"     Burst Time \tWaiting Time \tTurnaround Time"<<endl;

    for(*int* i=1; i<=n; i++)

    {

        cout<<"P"<<i+1<<"  \t"<<burst\_time[i]<<"\t\t"<<wt\_time[i]<<"\t\t"<<turnaround\_time[i]<<endl;

    }

    avg\_wait\_time= avg\_wait\_time/n;

    avg\_turnaround\_time= avg\_turnaround\_time/n;

    cout<<"\nAverage Waiting time = "<<avg\_wait\_time<<endl;

    cout<<"\nAverage Turnaround time = "<<avg\_turnaround\_time<<endl;

    return 0;

}

**OUTPUT**

**Text

Description automatically generated**