

FCFS

Fcfs.java

```
package fcfs;
import java.util.*;
public class fcfs {
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of processes :");
        int n= sc.nextInt();
        int pid[]=new int[n];
        int at[]=new int[n];
        int bt[]=new int[n];
        int ct[]=new int[n];
        int tat[]=new int[n];
        int wt[]=new int[n];
        for(int i=0;i<n;i++)
        {
            System.out.println("Enter the process id");
            pid[i]=sc.nextInt();
            System.out.println("Enter the arrival time");
            at[i]=sc.nextInt();
            System.out.println("Enter the bus time");
            bt[i]=sc.nextInt();
        }
        for (int i = 0;i<n;i++) {
            for (int j=0;j<n-1;j++) {
                if (at[j]>at[j+1]) {
                    int temp=at[j];
                    at[j]=at[j+1];
                    at[j+1]=temp;
                    int btemp=bt[j];
                    bt[j]=bt[j+1];
                    bt[j+1]=btemp;
                    int ptemp=pid[j];
                    pid[j]=pid[j+1];
                    pid[j+1]=ptemp;
                }
            }
        }
        for(int i=0;i<n;i++)
        {
            if(i==0)
            {
                ct[i]=bt[i]+at[i];
            }
            else
```

```

        {
            if(at[i]>ct[i-1])
            {
                ct[i]=bt[i]+at[i];
            }
            else
            {
                ct[i]=ct[i-1]+bt[i];
            }
        }
    }
    for (int i=0;i<n;i++)
    {
        tat[i]=ct[i]-at[i];
        wt[i]=tat[i]-bt[i];
    }
    System.out.println("Process ID\tArrival Time\tBus Time\tCompletion Time\tTurnaround
Time\tWait Time");
    for (int i=0;i<n;i++)
    {
        System.out.println(pid[i] + "\t\t" + at[i] + "\t\t" + bt[i] + "\t\t" + ct[i] + "\t\t" + tat[i] +
"\t\t" + wt[i]);
    }
}
}

```

OUTPUT:-

Enter the number of processes :

3

Enter the process id

1

Enter the arrival time

5

Enter the bus time

6

Enter the process id

2

Enter the arrival time

0

Enter the bus time

3

Enter the process id

3

Enter the arrival time

0

Enter the bus time

6

Process ID	Arrival Time	Bus Time	Completion Time	Turnaround Time	Wait Time
2	0	3	3	3	0
3	0	6	9	9	3
1	5	6	15	10	4