```
PRACTICAL_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];
        float atat = 0;
        float awt = 0;
        for(int i=0;i<n;i++)</pre>
            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++)</pre>
            {
                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++)</pre>
             {
                 tat[i]=ct[i]-at[i];
                 wt[i]=tat[i]-bt[i];
                 atat = atat + tat[i];
                 awt = awt + wt[i];
             }
             System.out.println("pid \t at \t bt \t ct \t tat \t wt ");
             for (int i=0;i<n;i++)</pre>
             System.out.println(pid[i] + "\t" + at[i] + "\t" + bt[i] +
"\t" + ct[i] + "\t" + tat[i] + "\t" + wt[i]);
             System.out.println("Average TAT and WT are: ");
             System.out.println("ATAT="+atat/n +"\t"+ "AWT"+awt/n);
         }
    public String toString() {
        return "fcfs []";
    }
        }
OUTPUT-
Enter the process id
Enter the arrival time
Enter the bus time
Enter the process id
Enter the arrival time
```

```
4
Enter the bus time
Enter the process id
Enter the arrival time
Enter the bus time
Enter the process id
Enter the arrival time
Enter the bus time
Enter the process id
Enter the arrival time
Enter the bus time
pid
       at
               bt
                      ct
                              tat
                                      wt
3
       1
               2
                      3
                              2
                                     0
4
       3
               1
                      4
                              1
                                     0
1
       4
               5
                      9
                              5
                                     0
2
       4
               10
                      19
                              15
                                     5
                      23
                              15
       8
               4
                                     11
Average TAT and WT are:
```

AWT3.2

ATAT=7.6