```
import java.util.Scanner;
import java.util.*;
public class SJF {
    public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                System.out.println("enter no. 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 Burst time:");
                    bt[i] = sc.nextInt();
                }
                int F[] = new int[n];
                for(int i = 0; i < n;i++)</pre>
                {
                    F[i] = 0;
                int st = 0;
                int total = 0;
                while(true)
                {
                     int min = 99;
                     int c = n;
                     if(total == n)
                          break;
```

```
for(int i = 0; i < n; i++)
                         if( at[i] <= st && F[i] == 0 && bt[i] < min)</pre>
                         {
                             c = i;
                             min = bt[i];
                         }
                     }
                     if(c == n)
                         st = st + 1;
                     }
                     else
                     {
                         ct[c] = st + bt[c];
                         F[c] = 1;
                         st = ct[c];
                         total++;
                     }
                 }
                 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++)
                     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);
            }
        }
OUTPUT-
5
```

Enter the process id:

1
Enter the Arrival time:
0
Enter the Burst time:
3
Enter the process id:
2
Enter the Arrival time:
3
Enter the Burst time:
6
Enter the process id:
3
Enter the Arrival time:
4
Enter the Burst time:
4
Enter the process id:
4
Enter the Arrival time:
6
Enter the Burst time:
5
Enter the process id:
5
Enter the Arrival time:

Enter the Burst time:

2

PID AT BT CT TAT WT

1 0 3 3 3 0

2 3 6 9 6 0

3 4 4 15 11 7

4 6 5 20 14 9

5 8 2 11 3 1

Average TAT and WT are:

ATAT=7.4 AWT3.4