```
import java.util.Scanner;
public class prioritypreemptive{
    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];
        int bttt[] = new int[n];
        int prio[] = 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();
            bttt[i] = bt[i];
            System.out.println("Enter the priority time");
            prio[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)
```

```
for(int i = 0;i <n;i++)</pre>
                 if( at[i] <= st && F[i] == 0 && prio[i] < min)</pre>
                 {
                     min = prio[i];
                     c = i;
                 }
            }
            if(c == n)
                st = st + 1;
            }
            else
            {
                 bt[c]--;
                 st++;
                 if(bt[c]==0) {
                 ct[c]=st;
                total++;
                F[c] = 1;
                 }
            }
        }
        for(int i = 0;i < n;i++)</pre>
            tat[i] = ct[i] - at[i];
            wt[i] = tat[i] - bttt[i];
            atat = atat + tat[i];
             awt = awt + wt[i];
        }
        for (int i = 0; i < n; i++)
            System.out.println(pid[i] + "\t" + at[i]+ "\t" + bttt[i] + "\t" +
prio[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-
```

break;

```
enter no. of processes:
6
Enter the process id:
Enter the Arrival time:
Enter the Burst time:
Enter the priority time
4
Enter the process id:
2
Enter the Arrival time:
4
Enter the Burst time:
10
Enter the priority time
Enter the process id:
3
Enter the Arrival time:
0
Enter the Burst time:
2
Enter the priority time
2
Enter the process id:
Enter the Arrival time:
```

```
3
Enter the Burst time:
Enter the priority time
6
Enter the process id:
5
Enter the Arrival time:
8
Enter the Burst time:
4
Enter the priority time
1
Enter the process id:
Enter the Arrival time:
Enter the Burst time:
2
Enter the priority time
5
1 4 5 4 23
                          19
                            14
2 4 10 3 18
                          14
3 0 2 2 2
                          2
                               0
4 3 1 6 4 1
                               0
5 8 4 1 12 4
                               0
6 6 2 5
                    25 19 17
Average TAT and WT are:
```

ATAT=9.833333 AWT5.8333335