```
Priority
import java.util.*;
public class PriorityNonPreemptive {
public static void main(String[] args) {
                   Scanner sc= new Scanner(System.in);
                   System.out.println("Enter no. of process: ");
                   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 f[] = new int[n];
                   int btt[] = new int[n];
                   int prio[] = new int[n];
                   for(int i=0; i<n; i++)
                    System.out.println("Enter process id: ");
                    pid[i] = sc.nextInt();
                    System.out.println("Enter Arrival time: ");
                    at[i] = sc.nextInt();
                    System.out.println("Enter Burst time: ");
                    bt[i] = sc.nextInt();
                    btt[i] = bt[i];
                    System.out.println("Enter priority time: ");
                    prio[i] = sc.nextInt();
                   f[i] = 0;
                   }
                   sc.close();
                   int st = 0;
                   int total = 0;
                   int i = 0;
                   while(true)
                     if(total == n)
                        break;
                     int c = n;
                     int min = 99;
                     for( i = 0;i < n; i++)
                     {
                        if(at[i] <= st && f[i] == 0 && prio[i] < min)
                          c = i;
                          min = prio[i];
                       }
                     if(c == n)
```

```
{
                    st += 1;
                  else
                    ct[c] = st + bt[c];
                    f[c] = 1;
                    st = ct[c];
                    total++;
                  }
                }
                for(int k = 0; k<n; k++)
                  {
                    tat[k] = ct[k] - at[k];
                    wt[k] = tat[k] - btt[k];
                for(int j = 0; j<n; j++)
                  System.out.println(pid[j]+"\t"+at[j]+"\t"+btt[j]+"\t"+
prio[j]+"\t"+ct[j]+"\t"+tat[j]+"\t"+wt[j]);
                }
               }
       }
OUTPUT:-
Enter no. of process :
Enter process id:
Enter Arrival time:
Enter Burst time:
Enter priority time:
Enter process id:
Enter Arrival time:
Enter Burst time:
Enter priority time:
Enter process id:
Enter Arrival time:
Enter Burst time:
Enter priority time:
1
         6
                   8
                            2
                                      14
                                                8
                                                         0
2
         8
                   0
                            1
                                      14
         9
                   3
                                      17
```