Priority Code

```java
import java.util.ArrayList;

import java.util.Collections;

import java.util.Scanner;


class Process {

    int processId;

    int burstTime;

    int priority;


    public Process(int processId, int burstTime, int priority) {

        this.processId = processId;

        this.burstTime = burstTime;

        this.priority = priority;

    }
}


public class Main {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        ArrayList<Process> processes = new ArrayList<>();


        System.out.print("Enter the number of processes: ");

        int n = scanner.nextInt();


        for (int i = 1; i <= n; i++) {

            System.out.print("Enter burst time for Process " + i + ": ");

            int burstTime = scanner.nextInt();

            System.out.print("Enter priority for Process " + i + ": ");

            int priority = scanner.nextInt();
```

```java
            processes.add(new Process(i, burstTime, priority));
        }


        // Sort processes based on priority (higher priority comes first)
        Collections.sort(processes, (p1, p2) -> p2.priority - p1.priority);


        int waitingTime = 0;
        int turnaroundTime;


        System.out.println("\nProcess ID\tBurst Time\tPriority\tWaiting Time\tTurnaround Time");
        for (Process process : processes) {
            turnaroundTime = waitingTime + process.burstTime;
            System.out.println(process.processId + "\t\t" + process.burstTime + "\t\t" + process.priority + "\t\t"
                    + waitingTime + "\t\t" + turnaroundTime);
            waitingTime += process.burstTime;
        }


        scanner.close();
    }
}
```

Output

Enter the number of processes: 5

Enter burst time for Process 1: 11

Enter priority for Process 1: 2

Enter burst time for Process 2: 28

Enter priority for Process 2: 0

Enter burst time for Process 3: 2

Enter priority for Process 3: 3

Enter burst time for Process 4: 10

Enter priority for Process 4: 1

Enter burst time for Process 5: 16

Enter priority for Process 5: 4

Process ID	Burst Time	Priority	Waiting Time	Turnaround Time
5	16	4	0	16
3	2	3	16	18
1	11	2	18	29
4	10	1	29	39
2	28	0	39	67