```
struct priority scheduling {
         char process name;
         int burst time;
 4
 5
         int waiting time;
         int turn around time;
 6
         int priority; };
 8 = int main() {
9
         int number of process, total = 0;
         struct priority scheduling temp process;
10
         int ASCII number = 65;
11
         int position;
12
13
         float average waiting time, average turnaround time;
         printf("Enter the total number of Processes: ");
14
         scanf("%d", &number of process);
15
         struct priority scheduling process[number of process];
16
17
         printf("\nPlease Enter the Burst Time and Priority of each process:\n");
18 -
         for (int i = 0; i < number of process; i++) {
             process[i].process name = (char) ASCII number;
19
             printf("\nEnter the details of process %c\n", process[i].process name);
20
21
             printf("Enter the burst time: ");
22
             scanf("%d", &process[i].burst time);
             printf("Enter the priority: ");
23
24
             scanf("%d", &process[i].priority);
25
             ASCII number++;}
         for (int i = 0; i < number of process; i++) {
26 -
             position = i;
27
28 =
             for (int j = i + 1; j < number of process; j++) {
29
                 if (process[j].priority > process[position].priority)
                     position = j;
30
31
```

#include <stdio.h>

```
process[i] = process[position];
33
34
             process[position] = temp_process;
35
36
         process[0].waiting time = 0;
37 🖃
         for (int i = 1; i < number of process; i++) {
38
             process[i].waiting time = 0;
39 🖹
             for (int j = 0; j < i; j++) {
                 process[i].waiting_time += process[j].burst_time;
40
41
42
            total += process[i].waiting time;
43
44
         average waiting time = (float) total / number of process;
45
         total = 0;
46
         printf("\n\nProcess\tBurst Time\tPriority\tWaiting Time\tTurnaround Time\n");
47 =
         for (int i = 0; i < number of process; i++) {
             process[i].turn_around_time = process[i].burst_time + process[i].waiting_time;
48
49
             total += process[i].turn around time;
50
             printf(" %c\t %d\t\t %d\t\t %d\t\t %d\n",
                    process[i].process_name,
51
52
                    process[i].burst_time,
53
                    process[i].priority,
54
                    process[i].waiting_time,
55
                    process[i].turn_around_time);
56
57
         average turnaround time = (float) total / number of process;
58
         printf("\nAverage Waiting Time : %.2f", average waiting time);
59
         printf("\nAverage Turnaround Time: %.2f\n", average turnaround time);
60
         return 0;
61
```

32

temp process = process[i];

```
Enter the total number of Processes: 4
Please Enter the Burst Time and Priority of each process:
Enter the details of process A
Enter the burst time: 3
Enter the priority: 2
Enter the details of process B
Enter the burst time: 7
Enter the priority: 5
Enter the details of process C
Enter the burst time: 6
Enter the priority: 3
Enter the details of process D
Enter the burst time: 9
Enter the priority: 4
```

LIOCESS	Date Line	FITULICA	warting iime	ruinai ound rime	
В	7	5	0	7	
D	9	4	7	16	
С	6	3	16	22	
Α	3	2	22	25	
Average	Waiting Time	: 11.25			

Waiting Time Turnaround Time

Driority

Drocess Rurst Time

Average Turnaround Time: 17.50