```
#include<stdio.h>
  struct priority scheduling
} ⊑
    char process name;
      int burst time;
        int waiting time;
          int turn around time;
            int priority;
               int main() {
  int number_of_process;
   int total = 0;
  struct priority_scheduling temp_process;
    int ASCII_number = 65;
  int position;
   float average_waiting_time;
      float average_turnaround_time;
  printf("Enter the total number of Processes: ");
   scanf("%d", & number_of_process);
   struct priority_scheduling process[number_of_process];
  printf("\nPlease Enter the Burst Time and Priority of each process:\n");
for (int i = 0; i < number_of_process; i++) {</pre>
process[i].process_name = (char) ASCII_number;
printf("\nEnter
                                       details
                                                        of the
                                                                          process
                                                                                          %c \n", process[i].process name);
                           the
printf("Enter the burst time: ");
scanf("%d", & process[i].burst_time);
 printf("Enter the priority: ");
   scanf("%d", & process[i].priority);
   ASCII number++;
for (int i = 0; i < number_of_process; i++) {</pre>
position = i;
for (int j = i + 1; j < number of process; j++) {</pre>
if (process[j].priority > process[position].priority) position = j;
 temp_process = process[i]; process[i] = process[position];
  process[position] = temp_process; } process[0].waiting_time = 0;
    for (int i = 1; i < number_of_process; i++) {</pre>
process[i].waiting_time = 0;
for (int j = 0; j < i; j++) {
      process[i].waiting_time += process[j].burst_time;
for (int i = 1; i < number of process; i++) {
    process[i].waiting_time = 0;
    for (int j = 0; j < i; j++) {
        process[i].waiting_time +- process[j].burst_time;

   total += process[i].waiting_time;
} average_waiting_time = (float) total / (float) number_of_process;
total = 0;
} average_waiting_time = (float) total / (float) number_of_process;
total = 0;
printf("\n\nProcess_name \t Burst Time \t Waiting Time \t Turnaround Time\n");
printf(" \n");

for (int i = 0; i < number_of_process; i++) {
    process[i].turn_around_time = process[i].burst_time + process[i].waiting_time;
    printf("\t %c \t\t %d \t\t %d \t\t %d", process[i].process_name, process[i].burst_time,
    printf("\n \n");
    average_turnaround_time = (float) total / (float) number_of_process;
    printf("\n\n Average Waiting_Time : %f", average_waiting_time);
    printf("\n Average Turnaround_Time: %f\n", average_turnaround_time);
    return 0;</pre>
                                                                                            process[i].waiting_time, process[i].turn_around_time);
```

| Inter the total number of Processes: 3                    |            |        |        |         |                 |
|---|------------|--------|--------|---------|-----------------|
| Please Enter the Burst Time and Priority of each process: |            |        |        |         |                 |
| Enter the<br>Enter the burst<br>Enter the prior           | time: 10   | of     | the    | process | А               |
| Enter the<br>Enter the burst<br>Enter the prior           | time: 12   | of     | the    | process | В               |
| Enter the<br>Enter the burst<br>Enter the prior           | time: 56   | of     | the    | process | С               |
| Process_name  | Burst Time | Waitin | g Time |         | Turnaround Time |
| В   | 12         |        | 0      |         | 12              |
| А   | 10         |        | 12     |         | 22              |
| С   | 56         |        | 22     |         | 78              |

Average Waiting Time : 11.333333 Average Turnaround Time: 0.000000