```
EXP-5:-
PROGRAM:-
#include <stdio.h>
typedef struct {
  int id, priority, burst_time, waiting_time;
} Process;
void scheduleProcesses(Process processes[], int n) {
  for (int i = 0; i < n - 1; i++)
    for (int j = i + 1; j < n; j++)
       if (processes[i].priority < processes[j].priority) {</pre>
         Process temp = processes[i];
         processes[i] = processes[j];
         processes[j] = temp;
       }
}
void calculateAndPrintSchedule(Process processes[], int n) {
  int waiting_time = 0;
  printf("ID\tPriority\tBurst Time\tWaiting Time\n");
  for (int i = 0; i < n; i++) {
    processes[i].waiting_time = waiting_time;
    printf("%d\t%d\t\t%d\n", processes[i].id, processes[i].priority, processes[i].burst_time,
waiting_time);
    waiting_time += processes[i].burst_time;
  }
}
int main() {
  Process processes[10];
  int n;
  printf("Enter number of processes: ");
  scanf("%d", &n);
  for (int i = 0; i < n; i++) {
```

```
printf("Enter ID, Priority, and Burst Time for Process %d: ", i + 1);
   scanf("%d %d %d", &processes[i].id, &processes[i].priority, &processes[i].burst_time);
 }
 scheduleProcesses(processes, n);
 calculateAndPrintSchedule(processes, n);
 return 0;
}
OUTPUT:-
Enter number of processes: 3
Enter ID, Priority, and Burst Time for Process 1: 1 2 5
Enter ID, Priority, and Burst Time for Process 2: 2 1 5
Enter ID, Priority, and Burst Time for Process 3: 3 8 2
ID Priority Burst Time Waiting Time
3
    8
           2
                        0
           5
    2
1
                        2
2
             5
                        7
    1
=== Code Execution Successful ===
```