Working with Process Scheduling algorithms

1. Given the list of processes, their CPU burst times and arrival time write a program to implement Shortest Job First CPU scheduling algorithm. Compute the waiting time and turnaround time for each processor. Print the table of information which contains process name, execution time, waiting time and turnaround time. Finally print the average waiting time and average turnaround time.

Process	Burst Time	Arrival Time
P1	12	0
P2	25	2
P3	13	1
P4	7	0
P5	11	5

2. Write a program to implement Shortest Job First CPU scheduling algorithm where Processes will arrive at the same time. Display the following results in a table format.
   i) Waiting time and turnaround time of every process.
   ii) Average waiting time and turnaround time.

Process	Burst Time
P1	12
P2	22
P3	14
P4	7
P5	10

3. Given the list of processes, their CPU burst times and arrival time, display/print the Gantt chart for FCFS. Compute the waiting time and turnaround time for each processor. Print the table of information which contains process name, execution time, waiting time and turnaround time. Finally print the average waiting time and average turnaround time.

Process	Burst Time	Arrival Time
P1	12	0
P2	25	2
P3	13	1
P4	7	0
P5	11	5