Sheet scheduling

1. Consider the following set of processes, with length of the CPU burst given in milliseconds:

Process	Arrival time	Burst time	*Priority*
P1	0	60	3
P2	3	30	2
P3	4	40	1
P4	9	10	4

Write a C program to simulate the following CPU scheduling algorithms. Display Gantt chart showing the order of execution of each process. Compute waiting time and turnaround time for each process. Hence compute average waiting time and average turnaround time.

1. (i) FCFS (ii) SRTF   (iii) non-preemptive priority (iv) Round-Robin (quantum = 10)

2. (i) SJF   (ii) preemptive priority

3. Multi-level queue scheduling algorithm.

4. Multi-level feedback queue scheduling algorithm.