1. Use the RMS schedulability analysis to check if each of the following task sets is schedulable with RMS. If not, draw a timing chart to show where the first deadline miss occurs.

Task Set		
Task	Period	Execution time
1	5	1
2	7	2
3	9	4

2. Use the EDS schedulability analysis to check if each of the following task sets is schedulable with EDS. Draw the timing chart for at least to cycles of each task.

3. Consider the following tasks with their resource requirements given as:

(a) t1: { 4, 4, 1:[B:1]} where the task executes for 1 time unit, then requests resource B for 1 time unit.

(b) t2: { 6, 4, 2:[none]} where the task executes for 4 times units and has no resource request.

(c) T3: { 0, 7, 3:[A:4[B:3]]} where the task executes for 2 units, then requests resource A, and after 1 time unit requests resource B for 3 times units. (totally 4 time units of resource A)

Construct the schedule for the system using only simple priority policy and illustrate the occurrence of priority inversion.

4. Construct the schedule for the system using priority inheritance and illustrate how it solves the priority inversion problem.