(b) Schedule the following two **periodic** processes using **Rate Monotonic Scheduling**. Give the output in the form of a **Gantt chart**. Write a comment explaining the scheduling decision made at the arrival of every new CPU burst. Stop your scheduling as soon as a process misses its deadline or when you reach Time 100, whichever occurs first. **Clearly indicate if a process misses its deadline**. (10 points)

P_1: p_1=80, t_1=35, d_1=80
P_2: p_2=50, t_2=25, d_2=50

Recall that p is the period, t is the length of the CPU burst, and d is the deadline. So, P_1 will have CPU bursts of length 35 periodically arriving at times 0, 80, 160, …, and each burst must be completed before the arrival of the next burst.