Create an application with three tasks. There is one leader task and two follower tasks. All three tasks should be created in the RTEMS Init() task.

Neither of the two follower tasks should run at the same time. The leader task should be the only task that runs after the Init() task finishes. The leader task should start one of the follower tasks, let it run for five seconds, suspend that task and then let the other task run for five seconds. The leader task should loop forever alternately letting each of the follower tasks run for five seconds.

One follower task should loop continuously displaying "Hello" at a random location on the PC display. There should be a 10 tick delay between messages. The other task should display "Goodbye" at a random location with a 15 tick delay between messages. Both follower tasks should use the same routine. Pass the message to be displayed (or rather a pointer to it) and the tick delay to the task using the user argument to rtems_task_start(). (You will need to pass a pointer to a data structure containing both items.) The PC display should be cleared before each follower does it's five second run.

Submit a printout of your source code. Submit your source code and your RTEMS executable in a zip or tar archive by email to richardson.tony@gmail.com. In the email subject line use “EE458 Project 2 – Your Name”.