| ers)    |
|---------|
|         |
|         |
|         |
|         |
|         |
|         |
|         |
|         |
|         |
| i1() */ |
|         |
|         |
| );      |
|         |

· main code below: FreekTOS -5 Static const char \*pcTextForTask1 = "Task I is running Ir In", Static const char \* pe Text For Task 2 = "Task 2 is running \r\n"; static const ghar \*pe Text For Task 3 = "Periodic task is running linh; int main (Void) \* pe Text For Task 3 = "Periodic task is running linh; x Task Create (v Continuous Processing Task, "Task 1", 1000, ( \*void) pc Text For Task 1, 1, NULL); x Task Create Cv Continuous Processing Task, "Task 2", 1000, (\* Void) pc Text For Tosk 2, 1, NULL); XTask Create (PeriodicTask, Task 3", 1000 (\* void) & c Text For Task 3, 2, NULL); VTask Start Scheduler(); return 1; > should produce an output like: Task 2 is running Task 2 is running Periodic task is running Took 1 prints the string a number of times while it is in the running state task 1 is running Task 1 is running Task 1 is lunning Task 2 is running task 2 is running ... as does Task 2 ... Task 2 is running both Tosks remain in the running state for a full tak period, during which the text may be printed a number of times... Task 2 is running task 1 is running is running task 1 is running task 1 is running task 1 is running Periodic Task is nudning

Breaking Down the Revised FreekTOS Blinky Assignment RTS\_W4-3 · Recall that in this assignment you are to use the FrankTOS Randwork to create a real-time implementation of sequential blinking, Flash with no overlapping. Blue LEDS · Just like the conceptual work we have done with RTDS, algorithms like RM and FDF we can construct a timing diagram for this assignment: SRED ON OFF OFF ON OFF OFF ON DEF Screen OFF ON OFF OFF ON OFF OFF ON SEWE OFF OFF ON OFF OFF ON OFF OFF T 2+ 3+ 4+ 5+ 6+ 7+ 8+ 9+ 10+ three o in order to realize the "OFF" time for any of the LEDs, we make the task go into you its BLOCKED state using ettler the Mask Debyl) or Mask Deby Ontil () API functions. < >> VToskDeloy() N ON & during this time, regardless of the priority of the also note that each LED task is executing the same sequence of events tramely ON OFF OFF but out of phase wrote each other. For a given task, this sequence might be written as Void LEDTask ( void pv Parameters) { Can you suggest while (1) 2 how to arrange - LEDON (LED-id); this loop for -delay-function (T) the Green and LED OFF (LED\_id); Bue LEDS 2 VTask Delay (T);

RTS-W4-4 note that delay function (T) can be realized using lether VTask Delay ()/VTask Delay Until() is with a private function that done not put the calling task in the Booked. State. Why? · there are actually many ways to realize this we can also envision each task as being preempted by the others without going into a blocked state, but because of changing priorities · Each task can be implemented by the same void Task Function (void \* pv Parameters) LEDOFF (LED\_id); while (1) LEDON (LED\_id); delay\_function (T)! LEDOFF (LED\_id); delay function (2'XT); · along with a timer task that keeps track