You will see your two grades for Lab11 as Lab08 in the progress bar.

LAB 11 SIMULATION GRADER (45/45 points)

Grading your lab solution on the simulator does not require the LaunchPad development board. Compile (build) your project in Keil, and start the debugger in simulation mode. Execute **Peripherals->TExaS PortF** to open the **TExaS edX Lab 11** window. Execute **View->SerialWindows->UART#1** to open the UART window. Reset the microcontroller. Enter the **3687** number into the **Num From EdX** field. Click the **Grade** button and wait until grading is finished. Any score above 70 will be considered a passing grade. If you are not satisfied with your score you are allowed multiple submissions.

Enter the **CopyThisToEdX** code from the Lab 11 grading engine:

NiAmENdc   **Answer:** 100

EXPLANATION

Lab 11 used the UART running in simulation. The grading engine checks for proper initialization and then tests the functions **UART_OutUDec** and **UART_OutDistance** with 19 possible inputs. There is no partial credit, but you are allowed as many attempts as you need to complete this lab. There are three things that must be correct to receive credit for the simulation Lab 11: 1) you must run Lab 11 in simulation (dialog DLL has this parameter -pCM4 -dedXLab11) and grade it with Keil debugger showing **TExaS edX Lab 11** window, 2) the **3687** number must be entered into the **NumFromEdX** field of the **TExaS edX Lab 11** window before grading is started, and 3) you must get a score of 70 or above.

Reset   Hide Answer

LAB 11 - REAL BOARD GRADER (45/45 points)

Grading your lab solution on the real board will require the LaunchPad development board. First connect the LaunchPad to the PC using the USB cable. This connection will activate a serial port (COM) channel between your microcontroller UART0 (PA1, PA0) and the PC. Compile (build) your project in Keil, and download it to the board. Run the application TExaSdisplay. Execute COM-Open. You can hit reset and run your software to see if it works. When you are ready to have

the lab graded execute Action->edX. Make sure the Lab parameter shows Lab 11. Enter the **6818** number into the **NumFromEdX** field. Click the **Grade** button. Click reset on the board. Any score above 70 will be considered a passing grade. If you are not satisfied with your score you are allowed multiple submissions.

Enter the **CopyThisToEdX** code from the Lab grading engine:

DbLibcdI   **Answer:** 100

EXPLANATION

Lab 11 tests the functions **UART_OutUDec** and **UART_OutDistance**. The grading engine checks your functions by passing it data and verifying the proper answers. You should not modify the main program, because the grader uses the colon, comma, equals sign and tilda as markers to parse the input/output. There is no partial credit, but you are allowed as many attempts as you need to complete this lab. There are three things that must be correct to receive credit for the real board Lab 11: 1) you must run Lab 11 and grade it with TExaSdisplay, 2) the **6818** number must be entered into the **NumFromEdX** field of TExaSdisplay, before grading is started, and 3) you must get a score of 70 or above.

Reset   Hide Answer