You will see your two grades for Lab13 as Lab10 in the progress bar.

LAB 13 - SIMULATION GRADER (45 points possible)

Grading your lab solution on the simulator does not require the LaunchPad development board. Compile (build) your Lab 13 project in Keil, and start the debugger in simulation mode. Execute **Peripherals->TExaS DAC** to open the **TExaS edX Lab 13** window. In this window make sure the input and output pins match your solution. Reset the microcontroller. Enter the **6084** 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 13 grading engine:

Check Save

LAB 13 - REAL BOARD GRADER (45 points possible)

Grading your lab solution on the real board will require the LaunchPad development board. Interface four positive logic switchs to PA5-2, PB3-0, or PE3-0. Build a 4, 5, or 6-bit DAC and interface it to output pins of the microcontroller. Choices of where you can connect the DAC include PA7-2, PB5-0, or PE5-0. While testing you can the DAC output to your headphones. However, during grading you should not connect the headphones. You must connect PD3 (the built-in scope) to the output of your DAC. Compile (build) your project in Keil, and download it to the board. Enter the **2636** number into the **NumFromEdX** field. You must hit reset and run your software. Make sure the Lab parameter shows Lab 13 and the **2636** is still correct. Click the **Grading** button within the Keil uVision TExaS Grader window. Follow the directions pushing and not pushing the switch as instructed. 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:

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