Lab 1 Andrei update

This lab was to check the working functions of each of the MSP4030 databoard and check their performance over UART.

To begin, example code was put into CCS a C programmer in order to have a baseline for the functionality of each board. Then when the Program was run UART, a form of communication to the processor, was used to see if the processor returned any values in order to have a baseline of “full” fuctionality. Essentially meaning that any problems occurred in this process was the fault of the hardware of the functionality or the UART cable instead of the code. Real term was the software used to communicate to the processor over UART as it has a GUI and is a dependable software for this purpose.

The assignment for after functionality can be proved of the processor was to design and implement a simple calculator that can do addition, subtraction, multiplication, and division on the processor.

The way I implemented this code was to have a simple printf function that mapped to each of the desired math functions, (using 1, 2, 3, and 4 respectively).

Then the processor would run “scanf” detect the value of the number input of each of two input numbers. Finally, depending on which math function was desired, The processor would take each of the two number inputs and perform the following functions.

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| {case 1:answer=num1+num2; |
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| --- |
| printf("addition = %d",answer); |
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| break; |
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| --- |
| case 2: answer= num1-num2; |
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| --- |
| printf("subtraction = %d",answer); |
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| break; |
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| --- |
| case 3: answer=num1\*num2; |
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| --- |
| printf("multiplaction = %d", answer); |
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| break; |
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| --- |
| case 4 : answer= num1/num2; |
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| --- |
| printf("division = %d", answer); |
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| break; |
|  |

default: printf("you must input a number\n");

Until finally displaying the final number achieved depending on the function.