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EET 240

**Table 1: Research & Observations on Demo Code Operation**

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| --- | --- | --- |
| **Switch** | **Research Pattern** | **Actual Pattern** |
| **SW0** | Count up | Count down |
| **SW1** | Count down | Count up |
| **SW2** | Rotate right | Shift right |
| **SW3** | Rotate left | Shift left |
| **SW4** | Invert | Invert |
| **SW5** | 2’s complement | 2’s complement |
| **SW6** | Swaps with register | Swaps with register |
| **SW7** | Nothing | nothing |

**Does the program code run the way you expect on the development board or is it different? Explain why it is different.**

I forgot about it being low enabled so the count up actually was down and vise versa.

1. **What was the change in the demonstration code so it will run on the Atmega16 or 32 devices?**
   1. We had to switch the include statement from ***.include “m16def.inc”*** to ***.include “m32def.inc”***
2. **What questions do you still have about simulating code within Microchip Studio?**
   1. Is there a way to set what windows are open when you start a new project or do you always have the same ones and need to open the ones you want manually each time?
3. **Other questions in the lab?**
   1. So far we have mostly used ldi which seems like the obvious choice what will we use the other commands for is it mostly for when we want to receive an input from outside or are there other reasons?