# ECE 292B - Summer 2001- Lab 7
The Basic Stamp 2 - Hardware Development

The objective of this lab is to practice hardware and software development skills and basic Input/output on the Parallax Basic Stamp 2. The lab assignment will require you to wire up some components to light an LED and accept input from a push button. Specifically:
1. When the button is pushed, turn the LED.
2. When the button is pushed again, turn the LED off.
3. Wire the 28-pin socket to the PCB, and wire wrap or solder the connections below. You must wire-wrap at least 3 connections, and solder at least 3 connections.

Here is the hardware schematic you will need to use on the PCB:
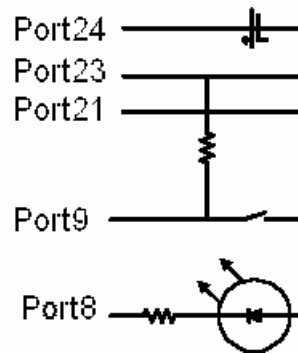
There are a few important commands needed to do this problem:

`for x = n1 to n2`	typical for loop, with a next at the end (i.e. `for blink = 1 to 100`)
`goto label`	jump to `label` (i.e. `goto reblink`, label would be `reblink:`)
`if x=n then label`	based on true equation, got to label (i.e. `if n=1 then reblink`)
`input X`	configure port X as an input port (i.e. input 1)
`inX`	read port x (i.e. `blink = in3`)
`next`	ends for loop
`output X`	configure port X as an output port (i.e. output 2)
`outX`	make port 0 output a value (as in out0 = 0)
`pause xx`	pause for xx milliseconds (`pause 1000` is pause for 1 second)
`x var word`	create a variable called x, for use later (i.e. `blink var word`)