**SKELETAL NOTES** (follow this template to take notes as you are working through the lab):

**Learning Objectives**

What are the main learning objectives for this lab?

**Logical Operators**- Write the logical operators learned today along with the corresponding logical gates and truth tables.   
  
  
  
  
  
  
  
  
  
  
  
  
- Write down the syntax for using logical operators within a conditional statement (if, elif, else) and make sure to indicate the use of parenthesis when using multiple logical operators in the same condition.

* Write an example for translating a circuit into a logical expression.

**Unix**

List all the **bash commands** learned today and their syntax:

**FOCUS QUESTIONS** (Make sure you can answer these questions when you are done with the lab):

* How is the snowCountprogram in Lab5 similar to the floodMap program of Lab4? How is it different?
* The Decimal number system uses digits 0-9. What are the digits for the Binary number system?
* What is the largest 3-digit Decimal number?
* What is the largest 3-digit Binary number?
* What is the lowest 3-digit Decimal number?
* What is the lowest 3-digit Binary number?
* What is the largest 1-digit Binary number? What number is that in Decimal?
* What is the largest 2-digit Binary number? What number is that in Decimal?
* Assume you have a logic gate, say the AND gate. How do you produce a circuit that has opposite behavior? What other gate(s) do you add and where?
* Assume you have a logical expression, any expression. How do you negate it (i.e. produce an expression that has opposite behavior)?