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Engineering 1020

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**Prelab 2**

**Preparation Questions**

1. Choose which digital input you want to use - button or touch sensor.

For the digital input I will use the button.

1. Given your digital input device only has two possible inputs, write the decision that needs to be made in an if-then-otherwise sentence *(pseudocode).* **You want your LED (say the red one) to light up when input is pressed/touched and to turn off when input is not pressed/touch**. For example, if the problem were something like, "Should you open or close your umbrella?", you could rewrite this as

*If digital input is pressed,*

*Then light up LED;*

*Otherwise turn off LED*

1. Describe how you plan to test your implementation of the above design, i.e. what the state of the input device is and what the corresponding output observation should be. ALSO describe how you could test the analog input value using the print () command.

I plan to test the design by pressing the button to see if the output would be that the LED will light up. I would write a code to print saying print (“Button was pressed”).

The second part of the test would be to not press the button and verify that corresponding output would be seen in this case it would be that the LED will turn off. I would write a code to print saying print (“Button was not pressed”).

For testing the analog input, I will use the following:

I will use an if statement if the analog input evaluates to True then I’ll use the print command to state, (“Button was pressed”).

I will use an if statement if the analog input evaluates to False then I’ll use the print command to state, (“Button was not pressed”).