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Engineering 1020

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**Prelab 2**

1. **Determine which devices you will be using**.

I will be using the temperature sensor and button for input.

I will be using the LCD screen and the LED for output.

1. **Design**: Referencing lecture material if needed, draw a flow chart that represents a design for the problem that best fits the devices chosen for Lab 3. The problem can be summarized as:

A close up of text on a whiteboard

Description automatically generated

1. **Test plan**: For the chosen project, come up with a *test matrix* similar to the one below, which is based off our heater example in Lab 2, with the addition that if the "heater on" button is low, the heater gets turned off. The matrix outlines the *expected* result or observation based on the digital input and analog input.

|  |  |  |
| --- | --- | --- |
|  | **Analog Input State (Temperature)** | |
| **Digital input state** | Button pressed | Button not pressed |
| **Output** | LCD screen | Digital output LED |