**Milestone Description:**

I have selected the Elevator Control system as a project for this course. To represent each of the elevator floors I will use LEDs that correspond to each floor. This will be done by using a SNx4HC138 3-Line To 8-Line Decoders/Demultiplexer. This integrated circuit requires 3 inputs A, B and C to control the output to 1 of 8 lines using an active-low scheme. The first part of the milestone would be to create a FreeRTOS task that will cycle through each of the possible input combinations of the mentioned Integrated circuit to turn on 1 of 8 LEDs.

A table with black and white letters

Description automatically generated

**SNx4HC138 3-Line To 8-Line Function Table**

In addition to this, another task should be created that shows the current floor and direction/state of the elevator. This output should be visualized on an LCD display.