Homework 7 Z5

No outline required

#1 A portable electric heater system should turn on heat (B0=1) when the actual temperature (A7-A4) is less then the desired temperature (A3-A0). To let users see that the heater is on, the system should blink B1 on for 300 ms and off for 300 ms. Capture the system using multiple tasks and a shared variable.

#2 A store entry system has a person sensor connected to A0. When a person is detected, the system generates a tone by setting B0 to 1 for 1000 ms. To indicate that the system is on, the system always blinks an LED by setting B1 to 0 for 500 ms and to 1 for 500 ms, repeatedly.