Names:

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Desk number: 9

Date:10/25/12

Experiment number: 7

Purpose of experiment:

To communicate the microprocessor with external interfaces (thermometer) using IN & OUT

Additional questions for Experiment 7

**Did you use any procedures from earlier experiments? If so, which ones and why?**

No exactly, we took some ideas from past experiments and improve it in order to work with the program, For example we took the idea of converting to 2nd complement and repeat here, but simpler. Also, converting to decimal input to binary and getting the input onto register, we took the idea of the lab 6 and we simplify to process only four inputs

**How close to the target does your program keep the temperature? After the flame is on, how much above the target does the temperature get? After the flame is off, how much below the target does the temperature get?**

The program keep the temperature exactly to the target, in other words, after the flame is on the temperature increase until the target, one time the target is reached then the flame is off. Next, the temperature drops one digit, and the flame began to up the temperature until the target.

To summarize, the temperate never goes over the target, but after the target is reached, then it could go down one digit before the flame is on.