**Week 2 Problem Analysis – Algorithmic Thinking Exercise 1 [5pts]**

**Elevator Controller**

Design an algorithm to decide where to take the elevator next.

Assumptions:

* There are 5 floors (1 through 5).
* Each floor has UP and DOWN call buttons.
* Inside the elevator there are buttons for the 5 floors.
* Your program can keep track of anything including how many times a button has been pressed.

Your algorithm should state clearly what information your program uses to decide where to go next.

**Group member names:**

**Detailed Algorithm in English:**

* **Where does the elevator start?**
* **How does it decide which floor to go to next? (there are buttons being pressed at different floors as well as inside the elevator)**

**State why you decided to take this approach – i.e. the goal such as less wait time, etc.:**

**State problems or disadvantages:**