LAB ASSIGNMENT 2

We tested usual as well as extreme cases on the Basys3 FPGA board. Extreme cases like when the only input given from the lift is from the inside of the lift to the same floor that is Bi is pressed as at floor Fi.

We also took care of the case when the lift is ascending, descending or halted and no input button is pressed then the lift should not move that is should be in halted state. When initially the lift is in the halted state priority is given to the upward movement of people. The test cases produced the same output in both the cases on simulation as well as on the board.

We have verified all the outputs of the testcases on Basys3 board and they give completely correct result as per the logic.