Switches are set to 10'b 00 0000 0011 (16'h0006) to jump to the start address x0006 of the Basic I/O Test 2 program

Switches are set to 10'b 00 0000 0111 (4 in decimal)

Switches are set to 10'b 00 0000 0001 (1 in decimal)

Switches are set to 10'b 00 0000 0101 (5 in decimal)

Switches are first set to 10'b 00 0000 0000

Run is triggered to start the Basic I/O Test 2 program

Continue must be triggered to display real time SW value on 7-segment display

Reset the entire SLC-3 processor
All registers are cleared
FSM is set to Halted state

MAR = 16'hFFFF & Reading
Load SW value instead of M[xFFFF]

HEX0 is displaying the SW value 16'h4

HEX0 is displaying the SW value 16'h5

MAR = 16'hFFFF & Writing
Store value in internal register and display instead of storing to M[xFFFF]

HEX0 is displaying the SW value 16'h1