

Case 3

Each DIP switch matches its correct BCD code, therefore MATCH_CODE produces logic HIGH. Also, the pushbutton (PB) is closed and as such allows the "VALIDATION" AND gate to produce logic HIGH. Now, LED2 lights up and the 7segment display shows the letter U (segments b-f)

(Correct code = 847 or 1000 0100 0111 in BCD)

