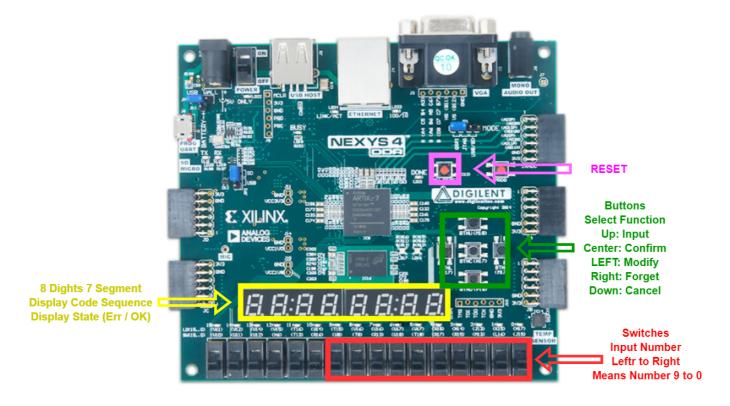
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## University of Birmingham, 2020 Digit Design Assigment: An Combination Lock

Using VHDL language and implement on Nexys4 DDR ,design by Yifan Du

## Hardware Specification

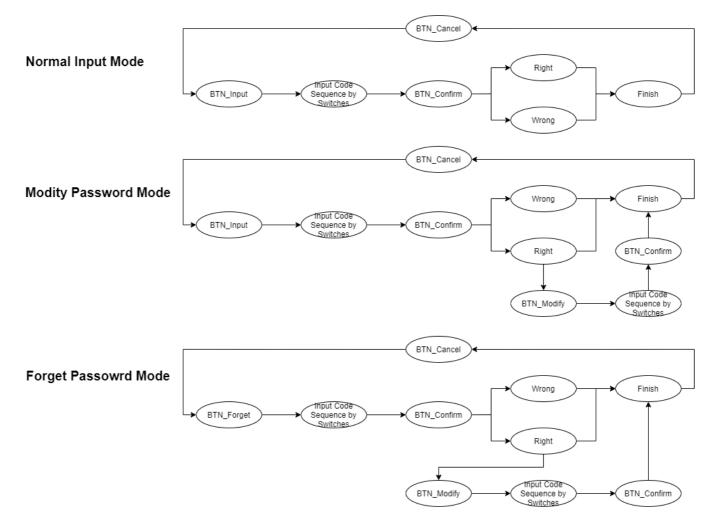


- RESET: Reset all value, code sequence and password
- **Buttons**: Use button to entry differnet function (mode).
  - **UP**: Normal input mode
  - o Left: Modify password mode, only working afer input right code sequence
  - **Center**: Confirm button, when user finfish input, push this button to confirm input code sequence.
  - o Right: Forget password mode / Admain mode
  - **Down**: Cancel / exit button.
- 8 Dight 7 Segments: Initial state will display "\_"
- Switches: Push up then push down same switch, its means input one number
  - o e.g: push up switch [4] then push down, its means input deciaml number 4

## input whole code sequence then push confirm (center) button

## **Button Function Specification**

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Use switches to input code sequence, push up and push down same switch mean input one number