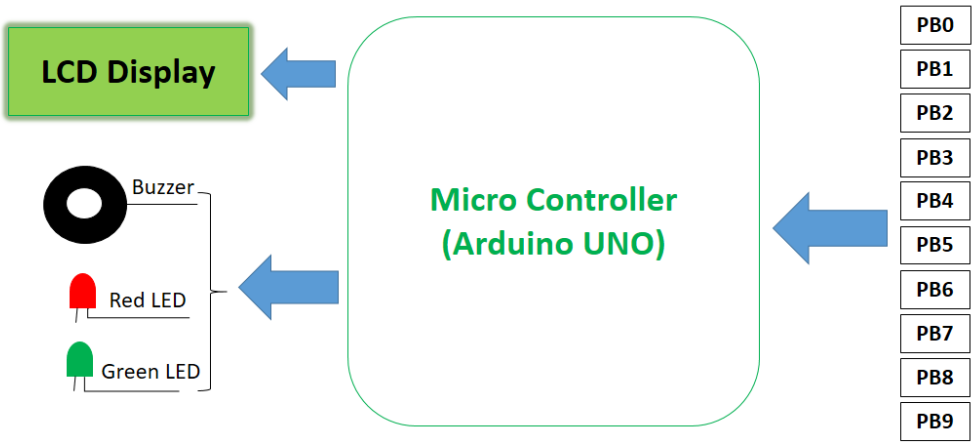
Password Protection with PUSH Buttons Using Arduino UNO

Description:

This Project is to design a system using **Arduino UNO** containing **push button** as keys from **0-9 Numbers** which are inputs for Arduino when user enters **Correct password** using push buttons then **Green LED** need to **ON** and **Welcome** message will be displayed in **LCD display**. If user enters **wrong password** then he can attempt another time. If the number of attempts **exceeds** more than **3 times** then **buzzer** need to blow and **warning message** will be displayed in **LCD display** and **Red LED** need to **ON**.

Block Diagram:



Inputs and Outputs:

S.No	Description	Name	Type	Data Direction	Spec	Remarks
1	Push Button	PB0	INP	DI	5VDC	Active High
2	Push Button	PB1	INP	DI	5VDC	Active High
3	Push Button	PB2	INP	DI	5VDC	Active High
4	Push Button	PB3	INP	DI	5VDC	Active High
5	Push Button	PB4	INP	DI	5VDC	Active High
6	Push Button	PB5	INP	DI	5VDC	Active High
7	Push Button	PB6	INP	DI	5VDC	Active High
8	Push Button	PB7	INP	DI	5VDC	Active High
9	Push Button	PB8	INP	DI	5VDC	Active High
10	Push Button	PB9	INP	DI	5VDC	Active High
11	LCD Display	LCD	OUT	DO	5VDC	Active High
12	Red LED	LED1	OUT	DO	5VDC	Active High
13	Green LED	LED2	OUT	DO	5VDC	Active High
14	Buzzer	BUZ	OUT	DO	5VDC	Active High

Flow Chart: