LED Sequence V1.0

Project description:

* Initially, all LEDs are OFF
* Once BUTTON0 is pressed, LED0 will be ON
* Each press further will make another LED is ON
* At the fifth press, LED0 will change to be OFF
* Each press further will make only one LED is OFF
* This will be repeated forever

Project flowchart:

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Start

yes

Turn LED3 on

No

If

PB Pressed

yes

Turn LED2 on

No

If

PB Pressed

If

PB Pressed

No

Turn LED0 on

yes

If

PB Pressed

No

Turn LED1 on

yes

2

1

End

3

3

2

If

PB Pressed

No

Turn LED2 on

yes

If

PB Pressed

No

Turn LED3 on

yes

If

PB Pressed

No

Turn LED0 off

yes

If

PB Pressed

No

Turn LED1 off

yes

Layered Architecture:

Service

|  |
| --- |
| Application |
| LED  Push Button |
| DIO  Interrupt |
| Microcontroller |