

**Experiment No: 10**

**Title: 8051 – Interfacing of Keypad with 8051**

**Class: T.E.**

**Year:**

**Semester: I**

**Roll No.:**

**Name:**

**Date of performance:**

**Date of Submission:**

**Signature:**

## AIM: Interfacing of keypad with 8051

**S/W AND H/W TOOLS:** Keil IDE, 8051 kit, Flash Magic

### THEORY:

The keypad is used as an input device to read the key pressed by the user and to process it.

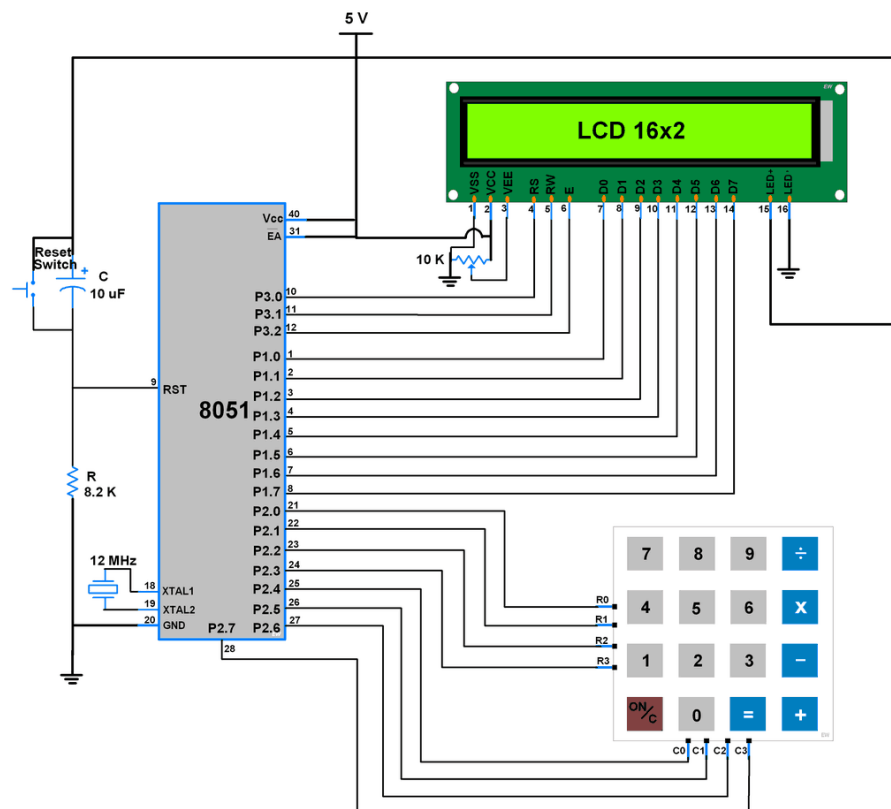
4x4 keypad consists of 4 rows and 4 columns. Switches are placed between the rows and columns. A keypress establishes a connection between the corresponding row and column between which the switch is placed.

To read the keypress, we need to configure the rows as outputs and columns as inputs.

Columns are read after applying signals to the rows in order to determine whether or not a key is pressed and if pressed, which key is pressed.

Here, we are going to interface the 4x4 keypad with AT89S52 (8051) and will display the pressed key on LCD16x2.

### INTERFACING DIAGRAM:



**CONCLUSIONS:**

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