Show keypad enter

Overview

This lesson will teach you how to use LCD1602 show Keypad enter.

Specification

Null

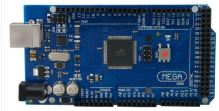
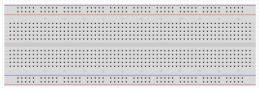
Pin definition

Keypad	**MEGA 2560**
UP	D38
	D40
	D42
	D44
	D46
	D48
	D50
DOWN	D52

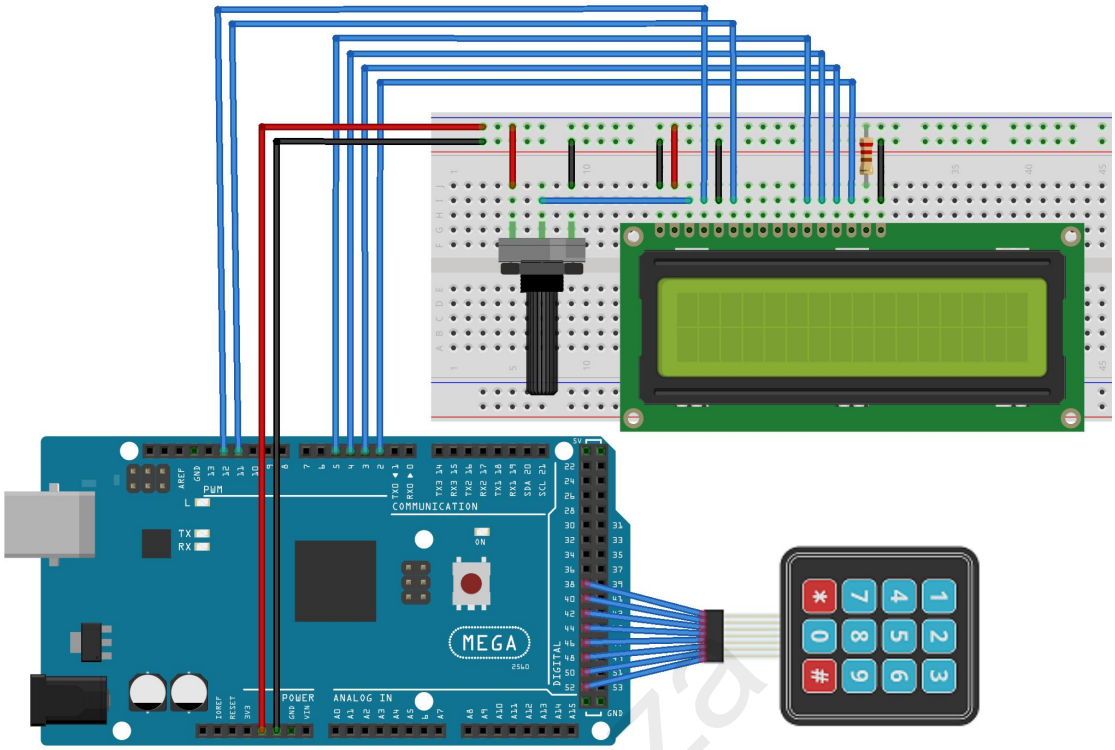
LCD1602	**MEGA 2560**
VSS	GND
VDD	+5V
VO	10K Potentiometer
RS	D12
RW	GND
E	D11
D0	null
D1	null
D2	null
D3	null

D4	D5
D5	D4
D6	D3
D7	D2
A	220/330Ω
K	GND

Hardware required

Material diagram	Material name	Number
	LCD1602	1
	220/330Ω resistor	1
	10KΩ Potentiometer	1
	Keypad	1
	USB Cable	1
	MEGA 2560	1
	Breadboard	1
	Jumper wires	Several

Connection diagram

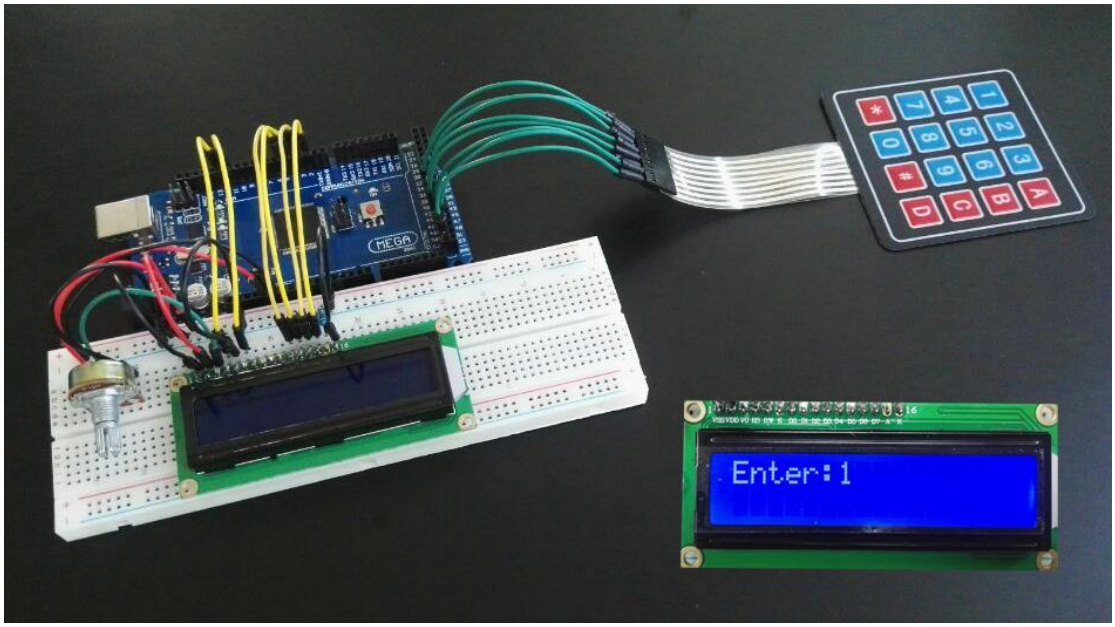


Sample code

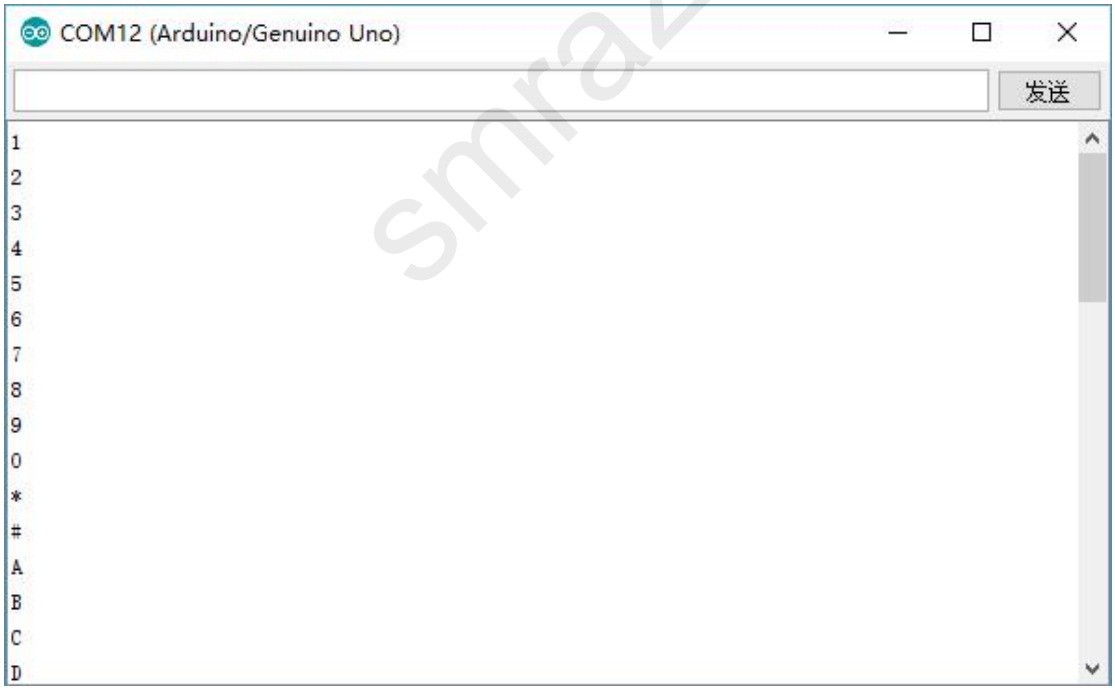
Note: sample code under the **Sample code** folder

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
#include <Keypad.h>
const byte ROWS = 4; //four rows
const byte COLS = 4; //four columns
//define the cymbols on the buttons of the keypads
char hexaKeys[ROWS][COLS] = {
  {'1','2','3','A'},
  {'4','5','6','B'},
  {'7','8','9','C'},
  {'*','0','#','D'}
};
byte rowPins[ROWS] = {38, 40, 42, 44}; //connect to the row pinouts of the keypad
byte colPins[COLS] = {46, 48, 50, 52}; //connect to the column pinouts of the keypad

//initialize an instance of class NewKeypad
Keypad customKeypad = Keypad( makeKeymap(hexaKeys), rowPins, colPins, ROWS, COLS);

void setup()
{
// set up the LCD's number of columns and rows:
  lcd.begin(16,2);
// Print a message to the LCD.
  lcd.print("    Welcome to ");
  lcd.setCursor(0,1);    //Display position
  lcd.print("              Smraza");
  Serial.begin(9600);
}
void loop()
{
  char customKey = customKeypad.getKey();
  if (customKey){
    Serial.println(customKey);
    lcd.clear();
    lcd.setCursor(0,0);
    lcd.print("Enter:");
    lcd.print(customKey);
  }
 }
```

Example picture



Result



Language reference

Tips : click on the following name to jump to the web page.
If you fail to open, use the Adobe reader to open this document.
byte

Application effect

Open the serial port, and then press one of the buttons and the serial port monitor will be displayed.

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