Keypad experiment

Overview

This lesson will teach you how to use Keypad module, which is simple and easy to use.
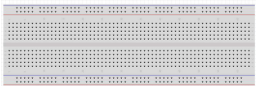
Specification

Null

Pin definition

Null

Hardware required

Material diagram	Material name	Number
	Keypad	1
	USB Cable	1
	UNO R3	1
	Breadboard	1
	Jumper wires	Several

Connection diagram

Smraza Keypad	UNO R3
UP	D9
	D8
	D7
	D6
	D5
	D4
	D3
Down	D2
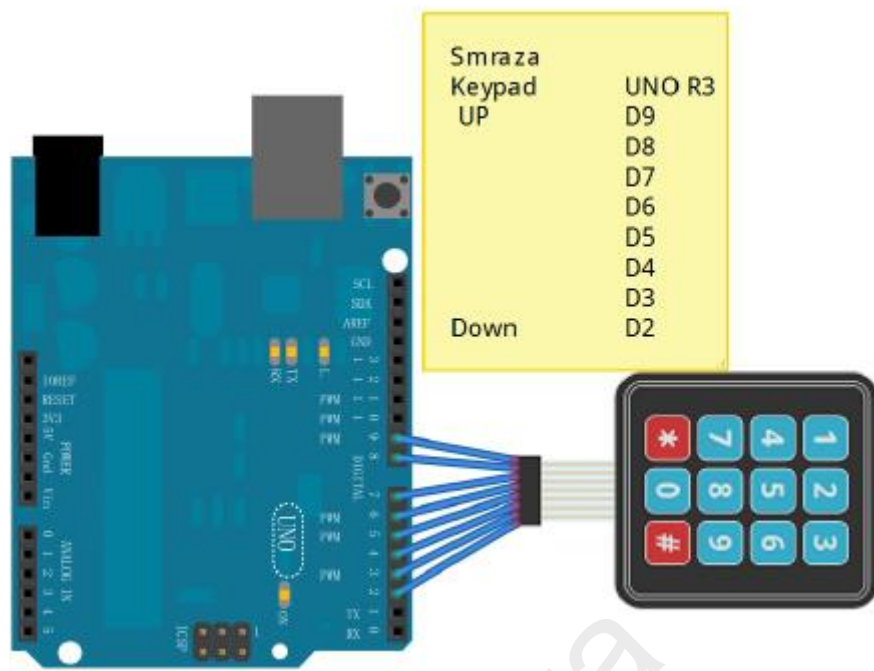
Sample code

Note: sample code under the **Sample code** folder
You need to add the **Keypad** to the Arduino library file directory, otherwise the compiler does not pass. **Please refer to 'How to add library files.docx'.**

```
#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] = {9, 8, 7, 6}; //connect to the row pinouts of the keypad
byte colPins[COLS] = {5, 4, 3, 2};
//initialize an instance of class NewKeypad
Keypad customKeypad = Keypad( makeKeymap(hexaKeys), rowPins, colPins, ROWS, COLS);

void setup(){
    Serial.begin(9600);
}
void loop(){
    char customKey = customKeypad.getKey();
    if (customKey){
        Serial.println(customKey);
    }
}
```
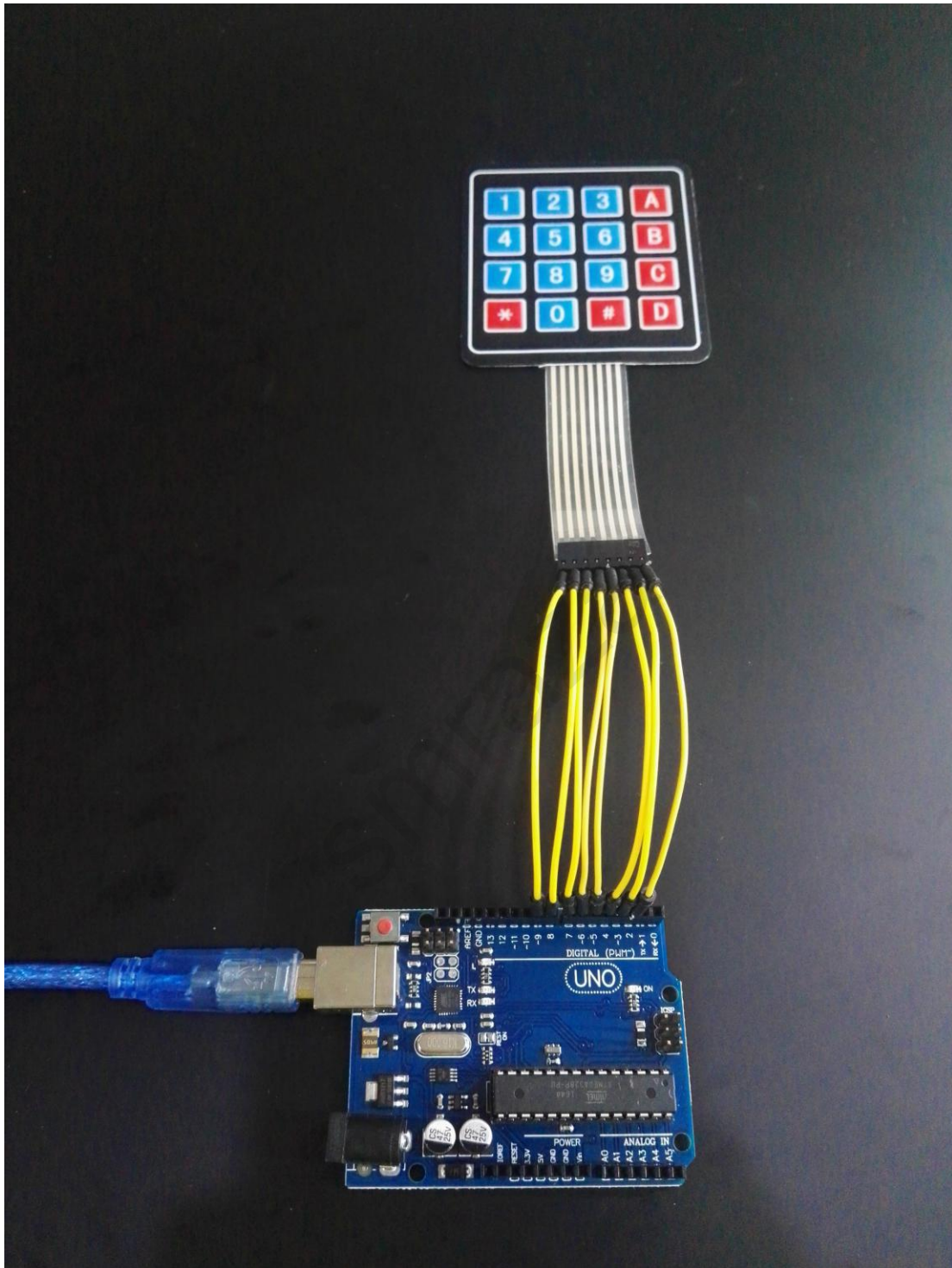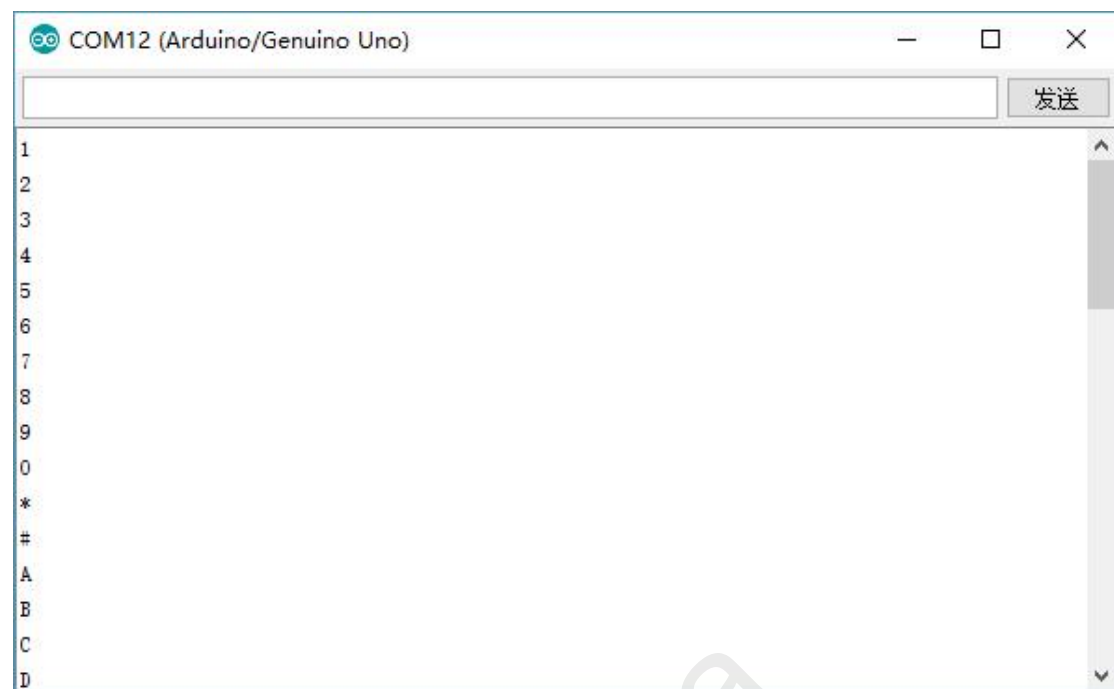
Example picture

Result

COM12 (Arduino/Genuino Uno)

发送

```
1
2
3
4
5
6
7
8
9
0
*
#
A
B
C
D
```

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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* About Smraza:
* We are a leading manufacturer of electronic components for Arduino and Raspberry Pi.
* Official website: http://www.smraza.com/
* We have a professional engineering team dedicated to providing tutorials and support to help you get started.
* If you have any technical questions, please feel free to contact our support staff via email at support@smraza.com
* We truly hope you enjoy the product, for more great products please visit our
Amazon US store: http://www.amazon.com/shops/smraza
Amazon CA store: https://www.amazon.ca/shops/AMIHZKLK542FQ
Amazon UK store: http://www.amazon.co.uk/shops/AVEAJYX3AHG8Q
Amazon DE store: http://www.amazon.de/shops/AVEAJYX3AHG8Q
Amazon FR store: http://www.amazon.fr/shops/AVEAJYX3AHG8Q
Amazon IT store: http://www.amazon.it/shops/AVEAJYX3AHG8Q
Amazon ES store: https://www.amazon.es/shops/AVEAJYX3AHG8Q
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