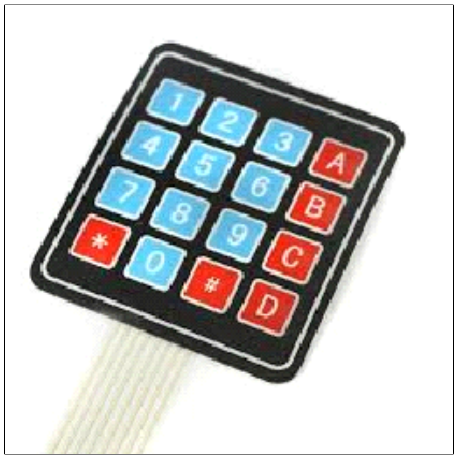
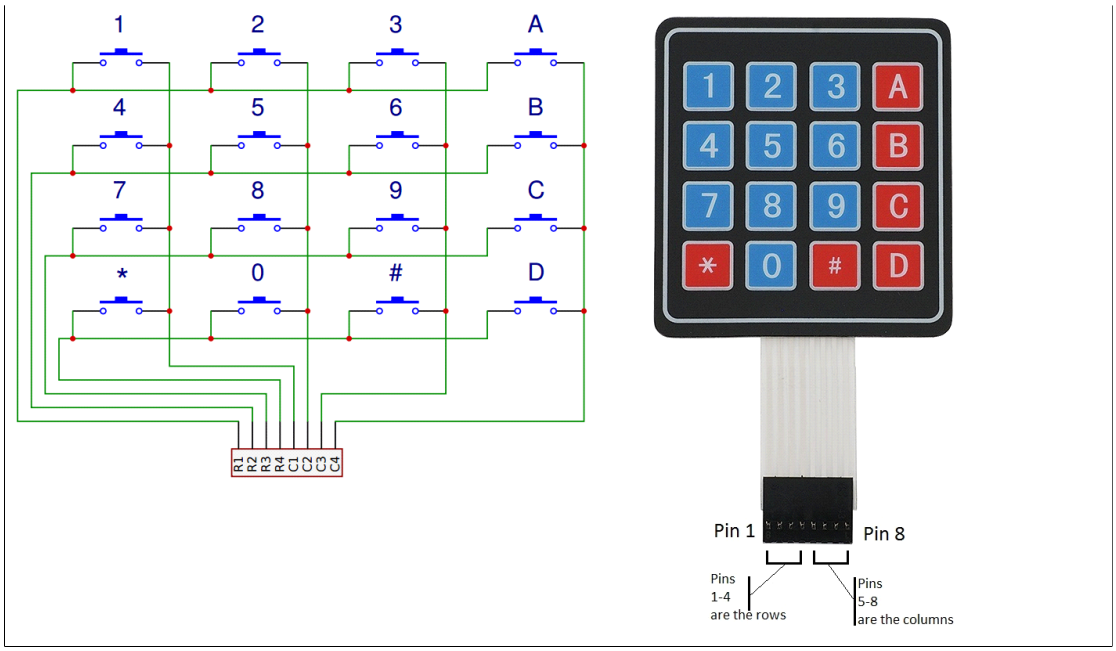
STAC
For software solution

Keypad

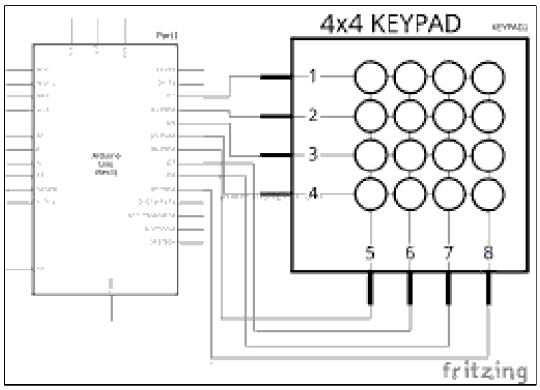


Keypad is a matrex .it' s a group of pushbuttons that connects to each other like that:

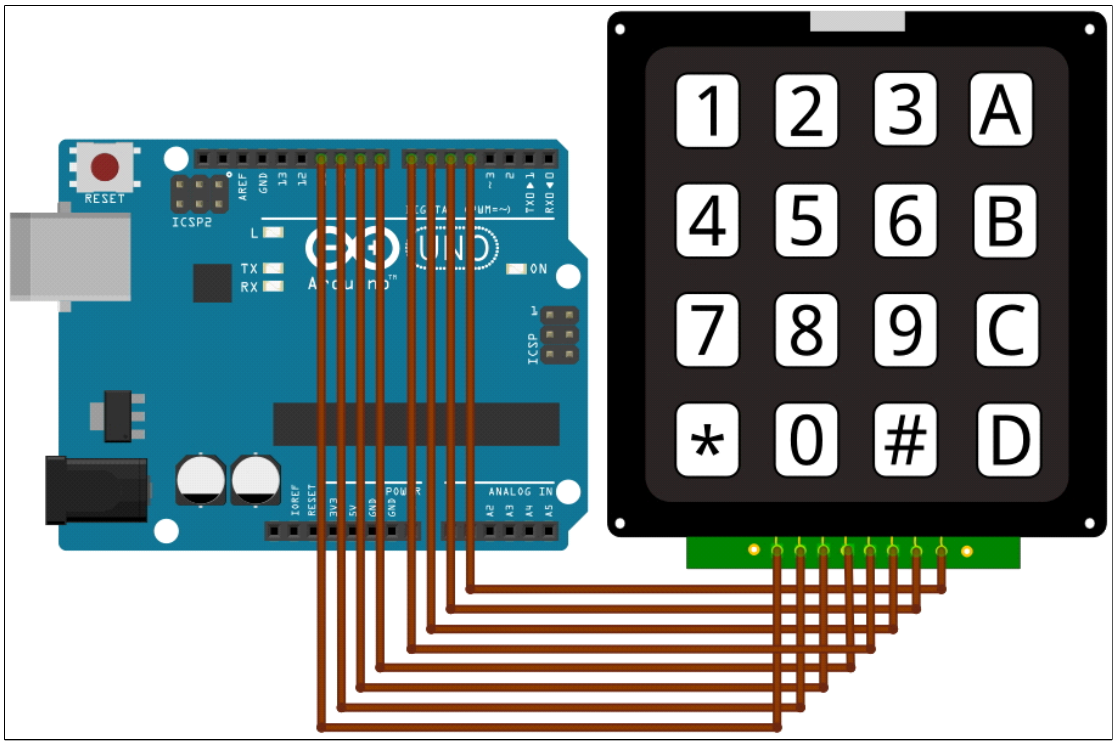


it has 4 rows and 4 colums each group attached to arduino pins

sechematic :



on Arduino :



code :

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_keypadTest

```
/*
  STAC Arduino Software
  Example - test the keypad
  by STAC Embedded Team
  https://www.facebook.com/STACSoftware/
  */
#include <Keypad.h> // call the library of keypad
const byte rows = 4; // define constant for rows number
const byte cols = 4; // define constant for columes number
char key_pad [rows][cols] = // creat the matrix of the keypad
{
  {'1','2','3','A'},
  {'4','5','6','B'},
  {'7','8','9','C'},
  {'*','0','#','D'}
  };
  byte rowPins [rows] ={2,3,4,5}; // define rows pins
  byte colPins [cols] = {6,7,8,9}; // define colums pins
  // connect the keypad matrix
  Keypad keypad= Keypad  (makeKeymap(key_pad),rowPins,colPins,rows,cols);

  void setup() {
    // put your setup code here, to run once:
  Serial.begin (9600); //start serial
  }

  void loop() {
    // put your main code here, to run repeatedly:
  char key = keypad.getKey(); //define variable to get values from keypad
  if(key) // every time u enter a key it will be displayed on serial
  {
    Serial.print(key);
    }
  }
```