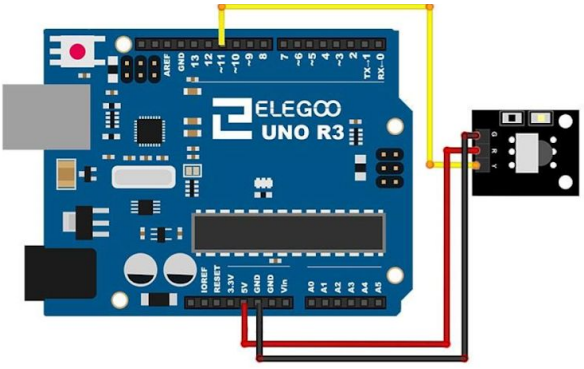
Documentation of the Arduino Hardware Configurations

Table of contents

IR receiver



Membrane keypad

Code

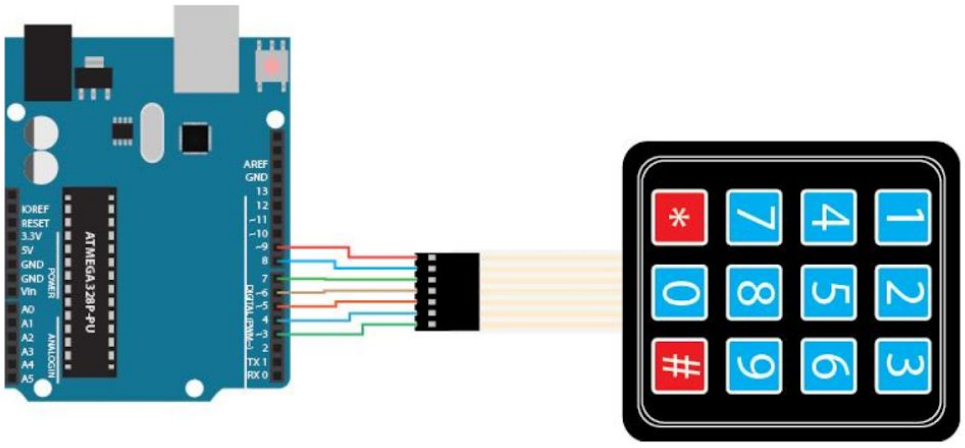
- For the testing code (to slightly adapt from 4x4 to 4x3): https://www.instructables.com/id/Connecting-a-4-x-4-Membrane-Keypad-to-an-Arduino/

Flexible membrane

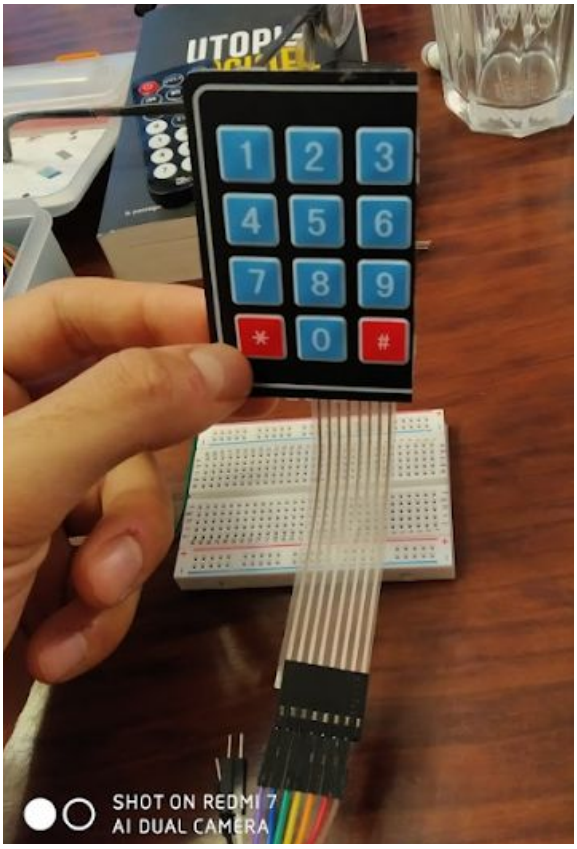
- Piece of code to modify:
    - // MEMBRANE KEYPAD FLEXIBLE

- byte rowPins[ROWS] = {9, 8, 7, 6}; //connect to the row pinouts of the keypad
- byte colPins[COLS] = {5, 4, 3}; //connect to the column pinouts of the keypad

- Picture:



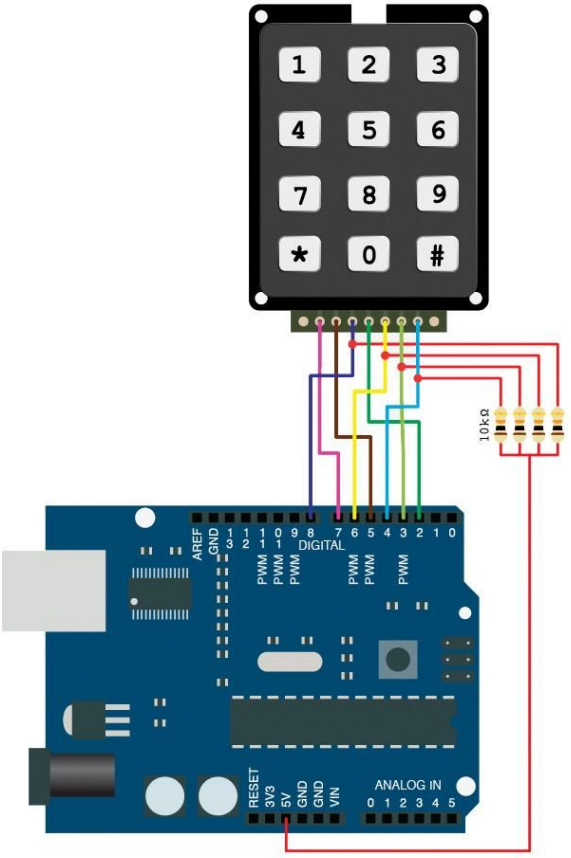
From
https://www.addicore.com/v/vspfiles/downloadables/Product%20Downloadables/Project_Interface_Kit/Addicore_12-Key_Keypad_Tutorial.pdf



None-flexible membrane

- Resource for graph and code:
  http://learning.grobotronics.com/2013/07/using-a-3x4-keypad/

- Piece of code to modify:
  - // MEMBRANE KEYPAD HARD
  - byte rowPins[ROWS] = {5, 4, 3, 2}; //connect to the row pinouts of the keypad
  - byte colPins[COLS] = {8, 7, 6}; //connect to the column pinouts of the keypad
- Pictures:



RTC module

- Model: Tiny RTC module DS1307
- Only for 5V
- Good resource in French: https://www.carnetdumaker.net/articles/utiliser-un-module-horloge-temps-reel-ds1307-avec-une-carte-arduino-genuino/#le-module-ds1307
- Connections :
  - VCC --> +5v
  - GND --> GND
  - SDA --> pin A4
  - SCL -->pin A5