

ARDUINO

Afficheurs 7 segments, LCD, LCD I2C.

Farouk MEDDAH

PLAN

■ AFFICHEURS 7 SEGMENTS

- Présentation
- Circuit d'exemple

-LCD

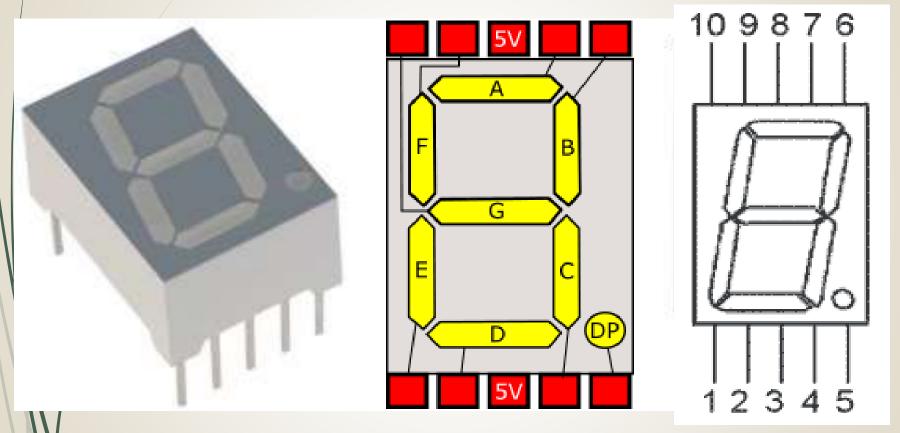
- Présentation
- Circuit d'exemple

LCD I2C

- Présentation
- Circuit d'exemple

AFFICHEURS 7 SEGMENTS

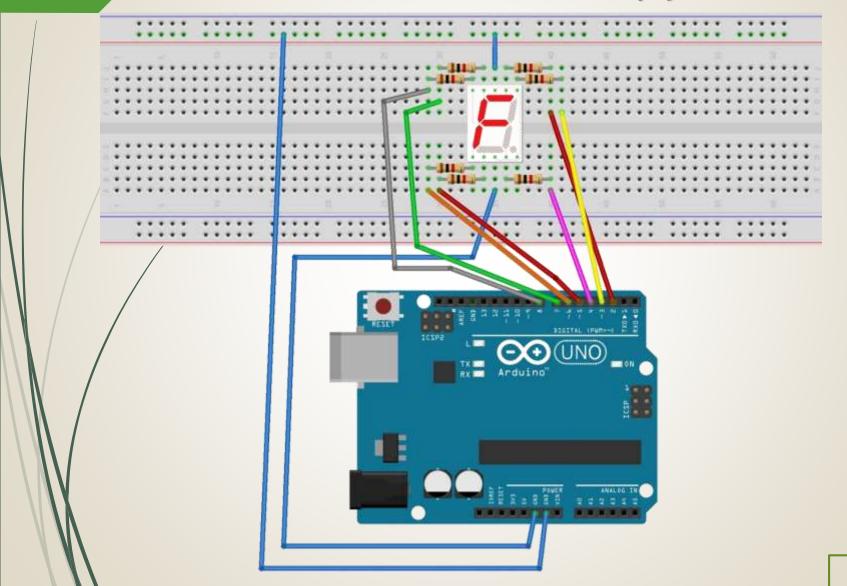
AFFICHEURS 7 SEG. (1)



Cet afficheur est de type anode commun, pour les afficheurs de type cathode commun on doit brancher les pin 3 et 8 au GND.

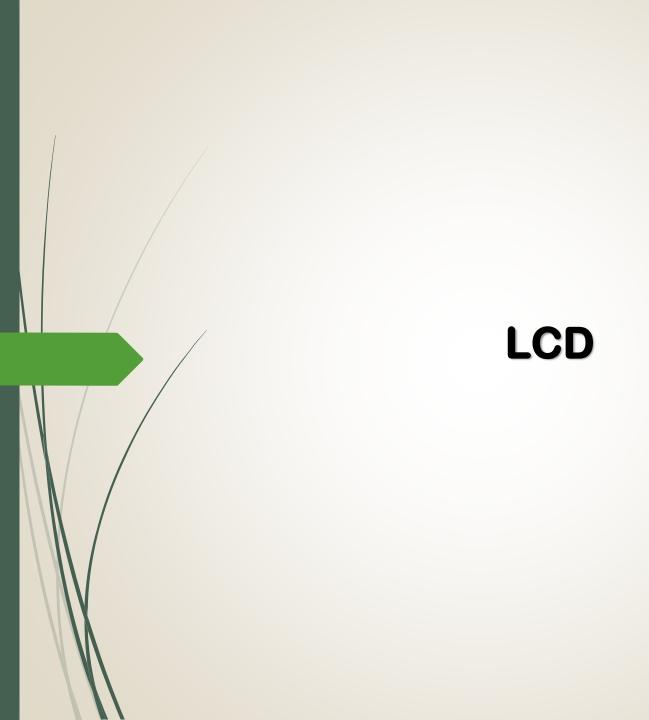
4

AFFICHEURS 7 SEG. (2)



CODE DU PROGRAMME

```
int nbrs[10] = \{63, 6, 91, 79, 102, 109, 125, 39, 127, 111\};
void setup()
\{
   for(int i=2; i<=8; i++) pinMode( i, OUTPUT);</pre>
void out(int n)
{/ int d = nbrs[n];}
   for(int/i=2; i<=8; i++){
       digitalWrite(i, d%2);
       d=d>>1;
   delay(1000);
 oid loop()
       for(int i=2; i<=9; i++) out(i);
```



LCD (1)



```
GND (ground)

CND (ground)

CND (ground)

CND (ground)

Contrast pin

VCC (5 volts) contrast pin

VO (display contrast pin)

RS (register select)

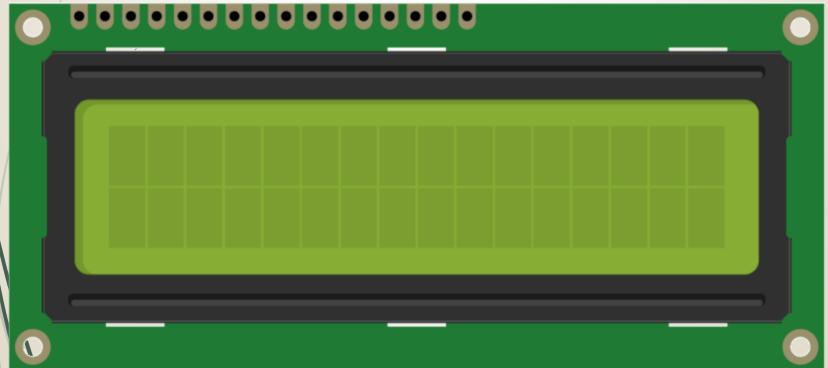
RS (readlwrite)

RIW (readle)

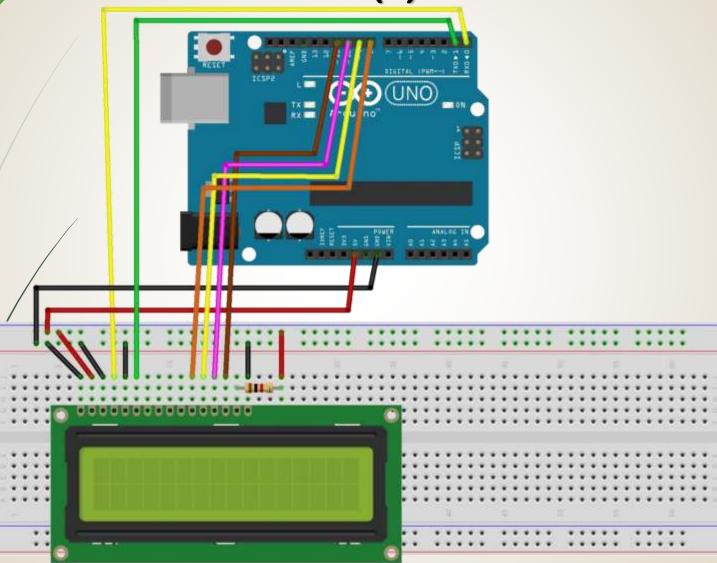
D0-D7 (data pins)

O 1 0 0 0 0 0 1 | K (cathode)

K (cathode)
```



LCD (3)

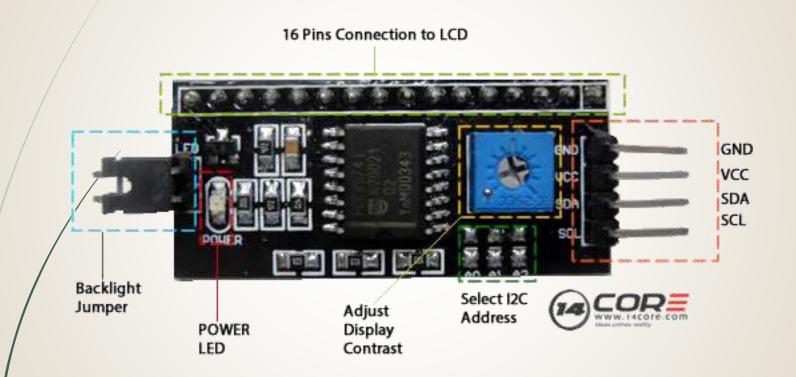


CODE DU PROGRAMME

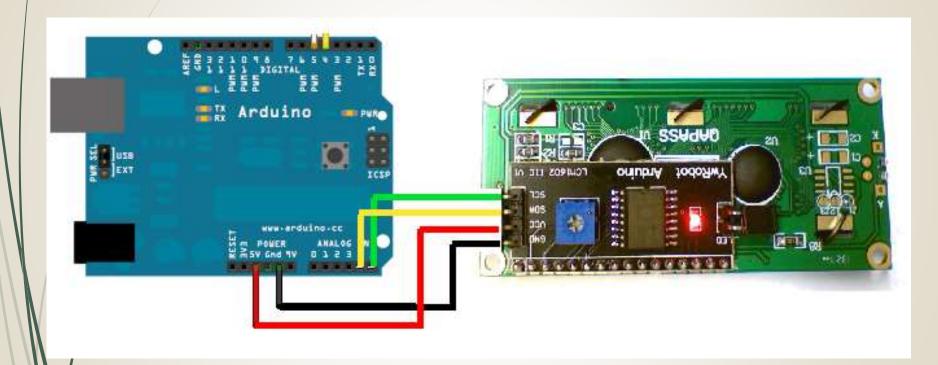
```
#include < Liquid Crystal.h >
LiquidCrystal Icd(0, 1, 8, 9, 10, 11);
void setup()
  lcd.begin(16, 2);
void loop()
 lcd.print(" -* L.C.D TEST *- ");
 l¢d.setCursor(0, 1);
 /cd.print(" - Welcome to my test - ");
 delay(750);
 lcd.scrollDisplayLeft();
 lcd.setCursor(0, 0);
```

LCD I2C

I2C



LCD 12C (2)



CODE DU PROGRAMME

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0x27, 2, 1, 0, 4, 5, 6, 7, 3, POSITIVE);
void setup()
 lcd.begin(16,2);
void loop()
 lcø.backlight();
 l¢d.setCursor(1, 0);
 /cd.print("Hello!");
 delay(1000);
 lcd.setCursor(1, 1);
 lcd.print("Good day");
 delay(1000);
```

