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/* code pour TCA9548A
 * par Francis Couvelaere juillet 2021
 * https://les-petits-trains-de-gamarde-les-bains.fr/
 */
#include <Wire.h>
#include <SparkFun_I2C_Mux_Arduino_Library.h>
#include "SSD1306Ascii.h"
#include "SSD1306AsciiAvrI2c.h"

QWIICMUX myMux;
SSD1306AsciiAvrI2c displayA;
SSD1306AsciiAvrI2c displayB;
SSD1306AsciiAvrI2c displayC;

void setup()
{
  Serial.begin(115200);
  Wire.begin();
  pinMode(13, OUTPUT);

  if (myMux.begin() == false) {
    Serial.println("TCA9548A non détecté");
    while (1);
  }
  Serial.println("TCA9548A détecté");

  byte currentPortNumber = myMux.getPort();
  Serial.print("Port utilisé: ");
  Serial.println(currentPortNumber);

  delay(2000); // nécessaire à la mise sous tension

  // initialisation OLED A
  myMux.setPort(2);
  Serial.println("initialisation OLED A");
  displayA.begin(&Adafruit128x64, 0x3C);
  displayA.setFont(System5x7);
  displayA.set1X();
  displayA.setCursor(0, 0);
  displayA.clearToEOL();
  displayA.print("INITIALISE");

  // initialisation OLED B

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```
myMux.setPort(3);
Serial.println("initialisation OLED B");
displayB.begin(&Adafruit128x64, 0x3C);
displayB.setFont(System5x7);
displayB.set1X();
displayB.setCursor(0, 0);
displayB.clearToEOL();
displayB.print("INITIALISE");
```

```
// initialisation OLED C
myMux.setPort(4);
Serial.println("initialisation OLED C");
displayC.begin(&Adafruit128x64, 0x3C);
displayC.setFont(System5x7);
displayC.set1X();
displayC.setCursor(0, 0);
displayC.clearToEOL();
displayC.print("INITIALISE");
displayA.set2X();
displayB.set2X();
displayC.set2X();
digitalWrite(13, HIGH);
delay(500);
}
```

```
void loop()
{
// messages OLED A
myMux.setPort(2);
displayA.clearToEOL();
displayA.setCursor(0, 0);
displayA.print("TRAIN: ");displayA.println("OUI");
displayA.setCursor(0, 30);
displayA.print("ARRET: ");displayA.println("NON");
displayA.setCursor(0, 60);
displayA.print("TCO: ");displayA.println("OK");

// messages OLED B
myMux.setPort(3);
displayB.clearToEOL();
displayB.setCursor(0, 0);
displayB.print("TRAIN: ");displayB.println("OUI");
displayB.setCursor(0, 30);
```

```
displayB.print("ARRET: ");displayB.println("OUI");  
displayB.setCursor(0, 60);  
displayB.print("TCO: ");displayB.println("PB");
```

```
// messages OLED C  
myMux.setPort(4);  
displayC.clearToEOL();  
displayC.setCursor(0, 0);  
displayC.println("SUD-AG01");  
displayC.setCursor(0, 30);  
displayC.println("VOIE");  
displayC.setCursor(0, 60);  
displayC.println("DIRECTE");
```

```
delay(1000);
```

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}
```