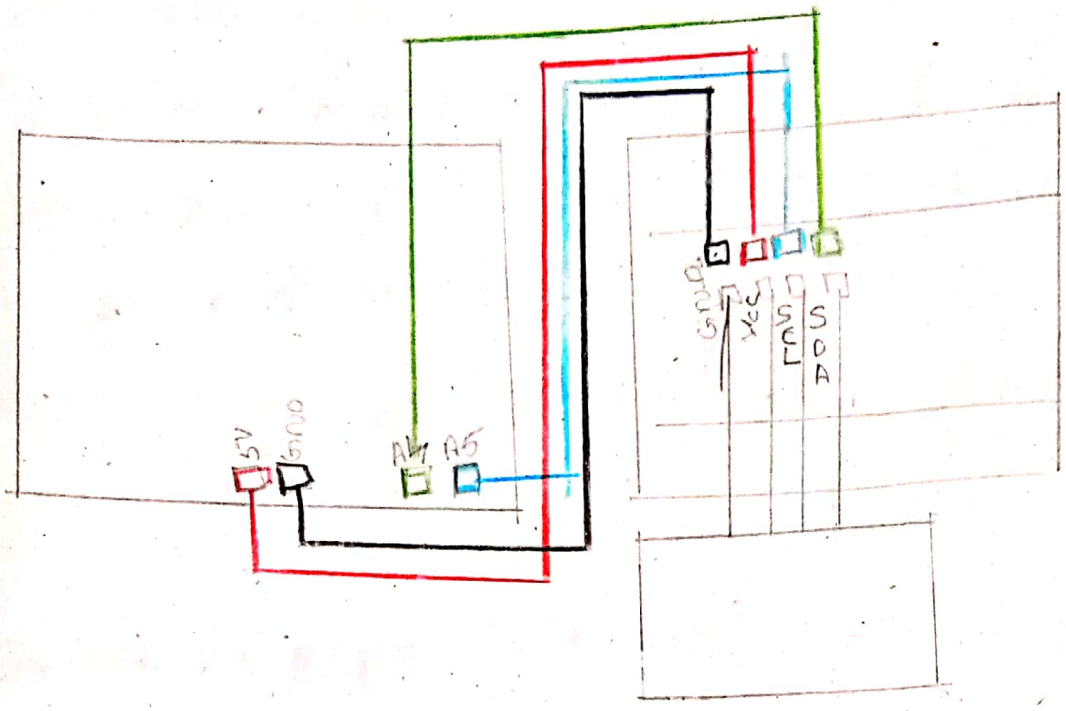
OLED (organic light emitting diods)



Program to display our name on OLED_DISPLAY

```
#include <SPI.h>
#include <Wire.h>
#include <Adafruit_GFX.h>
#include <Adafruit_SSD1306.h>

#define SCREEN_WIDTH 128
#define SCREEN_HIEGHT 32
#define OLED_RESET 4
Adafruit_SSD1306 display(SCREEN_WIDTH, SCREEN_HIEGHT,
                         &Wire, OLED_RESET);

void setup()
{ Serial.begin(9600);
```

```
//initialize OLED display with address 0x3C for 128x64
if(!display.begin(SSD1306_SWITCHCAPVCC, 0x3C))
{ serial.println(F("SSD1306 allocation failed"));
  while(true);
}

delay(2000);
display.clearDisplay();
display.setTextSize(1);
display.setTextColor(WHITE);
display.setCursor(0,10);
display.println("Dashini Dsouza");
display.display();
}
void loop()
{
  // code for loop
}
```

applications of OLED

* OLED displays are mainly used in digital devices such as high-end television systems, computer monitors.
* they are also pocket-size systems such as Android phones, media players, digital cameras, portable gaming consoles & mini screens & in wearables devices

OLED

* OLED stands for organic light emitting diode
* A light emitting diode containing thin flexible sheets of an organic electroluminescent material, used mainly in digital display screens
* because OLEDS emit light, they consume significantly less power.

OLED Pinout Diagram & Pin configuration

Pin number	Pin name	Description
Pin 1	GND	Connect the pin 1 with the Ground pin of arduino to make the common ground for proper working.
Pin 2	Power (VCC)	Connect it to 5V
Pin 3	SCL	Serial clock → it will act as clock pin.
Pin 4	SDA	This pin will recieve the data from the controlling device / Arduino.