

GROUP 8

SCHEMATIC DIAGRAM

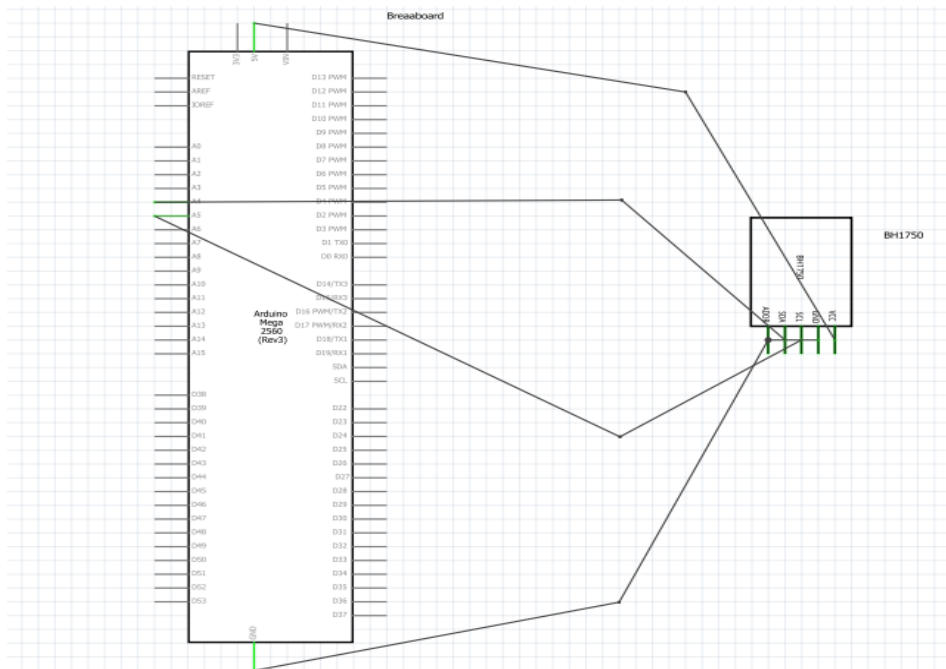
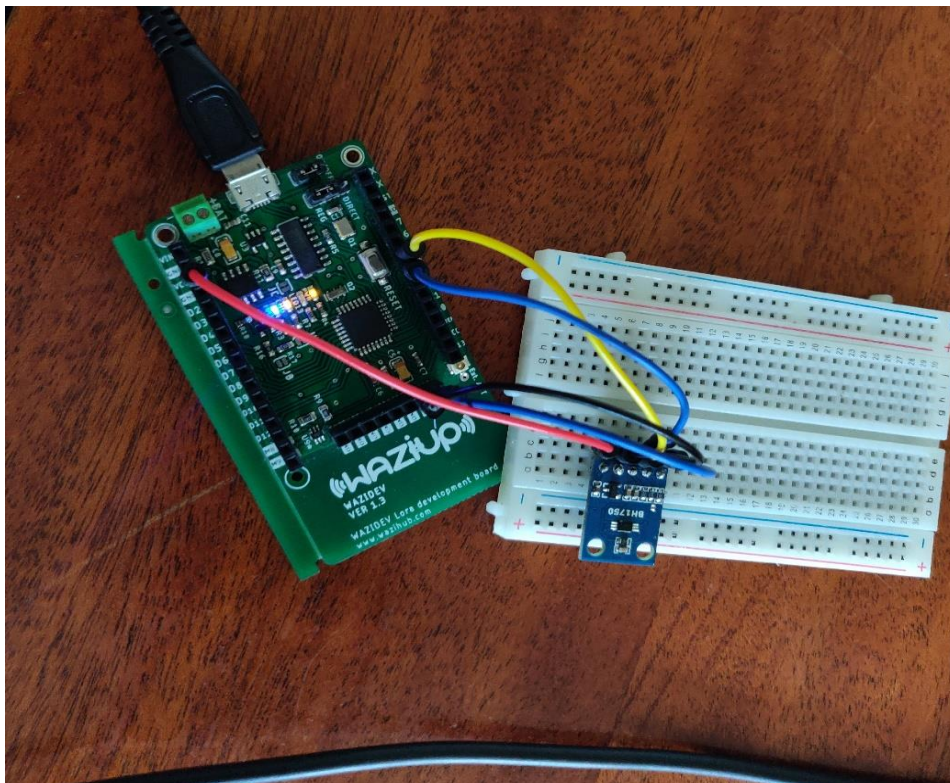


PHOTO OF THE CIRCUIT



THE CODE

```
#include <Wire.h>

#include <BH1750.h>

BH1750 lightMeter;

void setup(){

  Serial.begin(9600);

  Wire.begin();

  lightMeter.begin();

  Serial.println(F("BH1750 Test"));
}

void loop() {

  float lux = lightMeter.readLightLevel(true);

  Serial.print("Light: ");

  Serial.print(lux);

  Serial.println(" lx");

  delay(2000);
}
```

CHALLENGES FACED

1. Arduino Mega provided was not working* until we changed to another Waziuip micro-controller.
2. Finding the library for BH1750 sensor.

REFERENCE

Library link: <https://github.com/claws/BH1750>

Datasheet link: <https://components101.com/sensors/bh1750-ambient-light-sensor>

WHAT WORKED?

We were able to program the BH1750 light sensor that successfully worked after including the library found at GitHub (Linked above)

