

File Listing program Laporan 2 M3 Up UC

MASTER

```
# include <Wire.h>
```

```
#define MASTER_ADDR 9
```

```
int analogPin = 0;
```

```
int val = 0;
```

```
void setup() {
```

```
    Wire.begin();
```

```
}
```

```
void loop() {
```

```
    delay(50);
```

```
    val = map(analogRead(analogPin), 0, 1023, 255, 1);
```

```
    Wire.beginTransmission(MASTER_ADDR);
```

```
    Wire.write(val);
```

```
    Wire.endTransmission();
```

```
}
```

SLAVE

```
#include <Wire.h>
```

```
#define SLAVE_ADDR 9
```

```
int LED = 13; int rd;
```

```
int br;
```

```
void setup() {
```

```
    pinMode(LED, OUTPUT);
```

```
Wire.begin(SLAVE_ADDR); Wire.onReceive(receiveEvent);

Serial.begin(9600); Serial.println("I2C Slave demo");

}

void receiveEvent(){ rd = Wire.read(); Serial.println(rd);

}

void loop() {

    delay(50);

    br = map(rd, 1, 255, 100, 2000);

    if(rd <= 50){

        digitalWrite(LED, HIGH);

    }

    if(rd >= 200){

        digitalWrite(LED, LOW);

    }

}
```