

Arduino 1

```
#include <Wire.h>

int pushButton = A0;

int x = 0;

void setup()
{
  Wire.begin();
  pinMode(pushButton, INPUT);
}

void loop()
{
  Wire.beginTransmission(1);
  x = digitalRead(pushButton);
  Wire.write(x);
  Wire.endTransmission();
  delay(500);
}
```

Arduino 2

=

```
#include <Wire.h>

int pinLed=13;
int x =0;

void setup()
{
    Wire.begin(1);
    Wire.onReceive(receiveEvent);
    pinMode(pinLed, OUTPUT);
}

void loop()
{
    delay(100);
}

void receiveEvent(int howMany){

    x = Wire.read();

    if (x == 1){

        digitalWrite(pinLed,HIGH);
    }
    else{
        digitalWrite(pinLed,LOW);
    }
}
```