

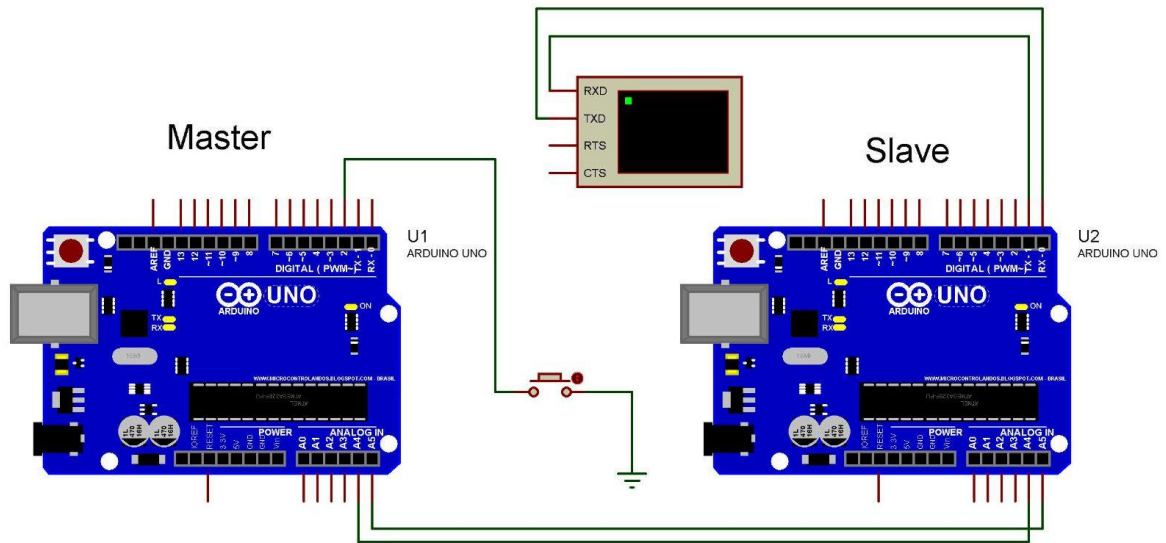


Lab Report (Grouped)
Microprocessor and Microcontroller lab
Group: 3 | Section: D

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Diagram Desing:



Code:

```
//Master Code:
#include <Wire.h>

int first=0,second=1,next=0,count=1;
void setup()
{
    Wire.begin();
    pinMode(2, INPUT_PULLUP);
}

void loop(){
    int x = digitalRead(2);
    if(x == LOW){
        fibo();
        delay(500);
    }
}

void fibo(){
    Wire.beginTransmission(4);
    if(count == 1){
        next = count;
    }else{
        next = first + second;
        first = second;
        second = next;
    }
    Wire.write(next);
    Wire.endTransmission();
    count++;
}
```

```
//Slave Code:
#include <Wire.h>

void setup()
{
    Wire.begin(4);
    Wire.onReceive(receiveEvent);
    Serial.begin(9600);
}

void loop()
{
    //delay(100);
}

void receiveEvent()
{
    while (Wire.available())
    {
        int num = Wire.read();
        Serial.print(num);
        Serial.print(" ");
    }
}
```