#include <NfcAdapter.h>

#include <PN532/PN532/PN532.h>

#include <SoftwareSerial.h>

SoftwareSerial mySerial(2, 5); // RX, TX

#if 1 // use SPI

#include <SPI.h>

#include <PN532/PN532\_SPI/PN532\_SPI.h>

PN532\_SPI pn532spi(SPI, 9);

NfcAdapter nfc = NfcAdapter(pn532spi);

#elif 0 // use hardware serial

#include <PN532/PN532\_HSU/PN532\_HSU.h>

PN532\_HSU pn532hsu(Serial1);

NfcAdapter nfc(pn532hsu);

#elif 0 // use software serial

#include <PN532/PN532\_SWHSU/PN532\_SWHSU.h>

#include "SoftwareSerial.h"

SoftwareSerial SWSerial(2,3);

PN532\_SWHSU pn532swhsu(SWSerial);

NfcAdapter nfc(pn532swhsu);

#else //use I2C

#include <Wire.h>

#include <PN532/PN532\_I2C/PN532\_I2C.h>

PN532\_I2C pn532\_i2c(Wire);

NfcAdapter nfc = NfcAdapter(pn532\_i2c);

#endif

//uid TO BE DETECTED

String const myUID1 = "E9 AE 11 EF";

String const myUID2 = "59 5B 11 EF";

void setup(void) {

 SERIAL.begin(9600);

 SERIAL.println("NDEF Reader");

 // set the data rate for the SoftwareSerial port

 mySerial.begin(9600);

 nfc.begin();

}

void loop(void) {

 if (nfc.tagPresent())

 {

 NfcTag tag = nfc.read();

 String scannedUID = tag.getUidString();

 tag.print();

 if( myUID1.compareTo(scannedUID) == 0){

 mySerial.write(1);

 Serial.println("Tag 1");

 }

 else if ( myUID2.compareTo(scannedUID) == 0){

 mySerial.write(2);

 Serial.println("Tag 2");

 }

 }

 delay(100);

}