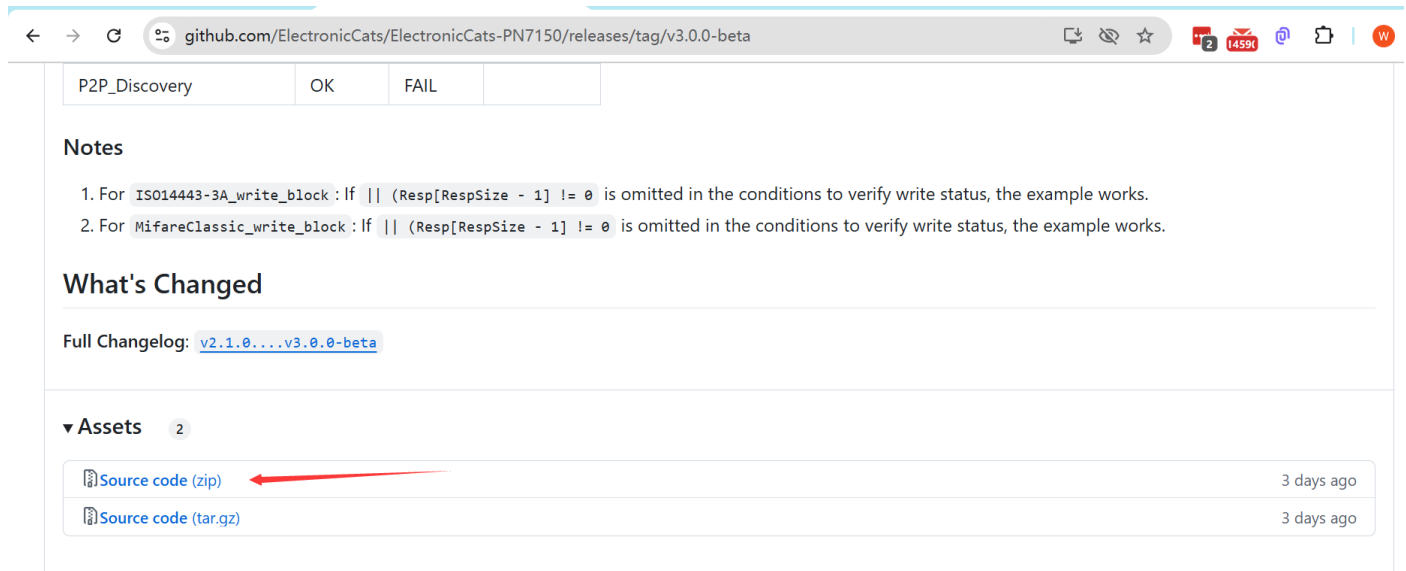


ESP32 and PN7160 I2C in Arduino IDE

1. Download PN7160 library for Arduino

<https://github.com/ElectronicCats/ElectronicCats-PN7150/releases/tag/v3.0.0-beta>



← → ↻ github.com/ElectronicCats/ElectronicCats-PN7150/releases/tag/v3.0.0-beta

P2P_Discovery	OK	FAIL

Notes

1. For `ISO14443-3A_write_block : if || (Resp[RespSize - 1] != 0` is omitted in the conditions to verify write status, the example works.
2. For `MifareClassic_write_block : if || (Resp[RespSize - 1] != 0` is omitted in the conditions to verify write status, the example works.

What's Changed

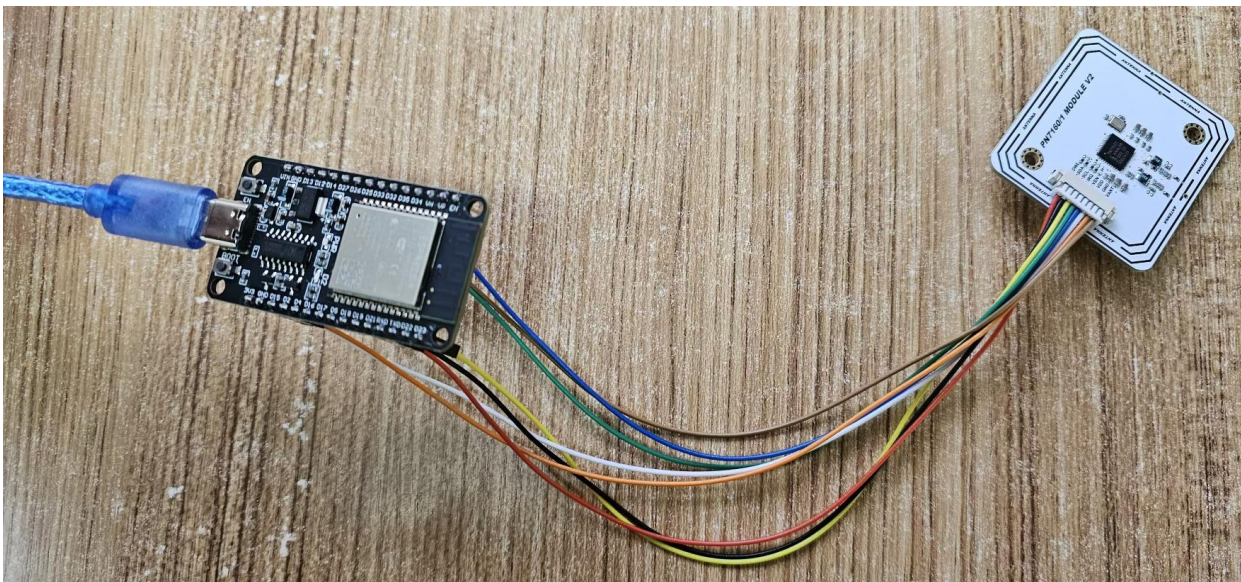
Full Changelog: [v2.1.0...v3.0.0-beta](#)

▼ **Assets** 2

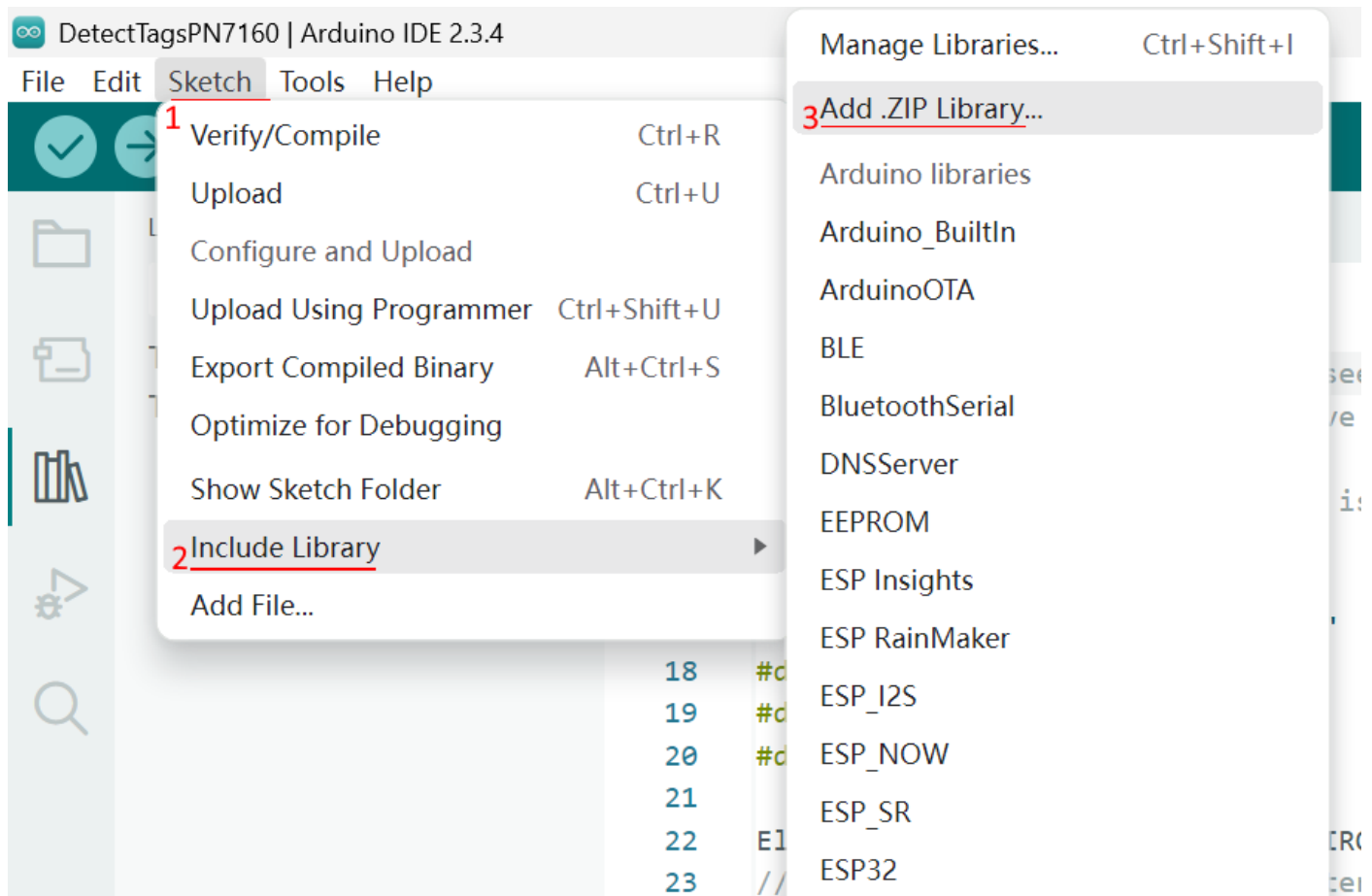
- Source code (zip) 3 days ago
- Source code (tar.gz) 3 days ago

2. Hardware connection

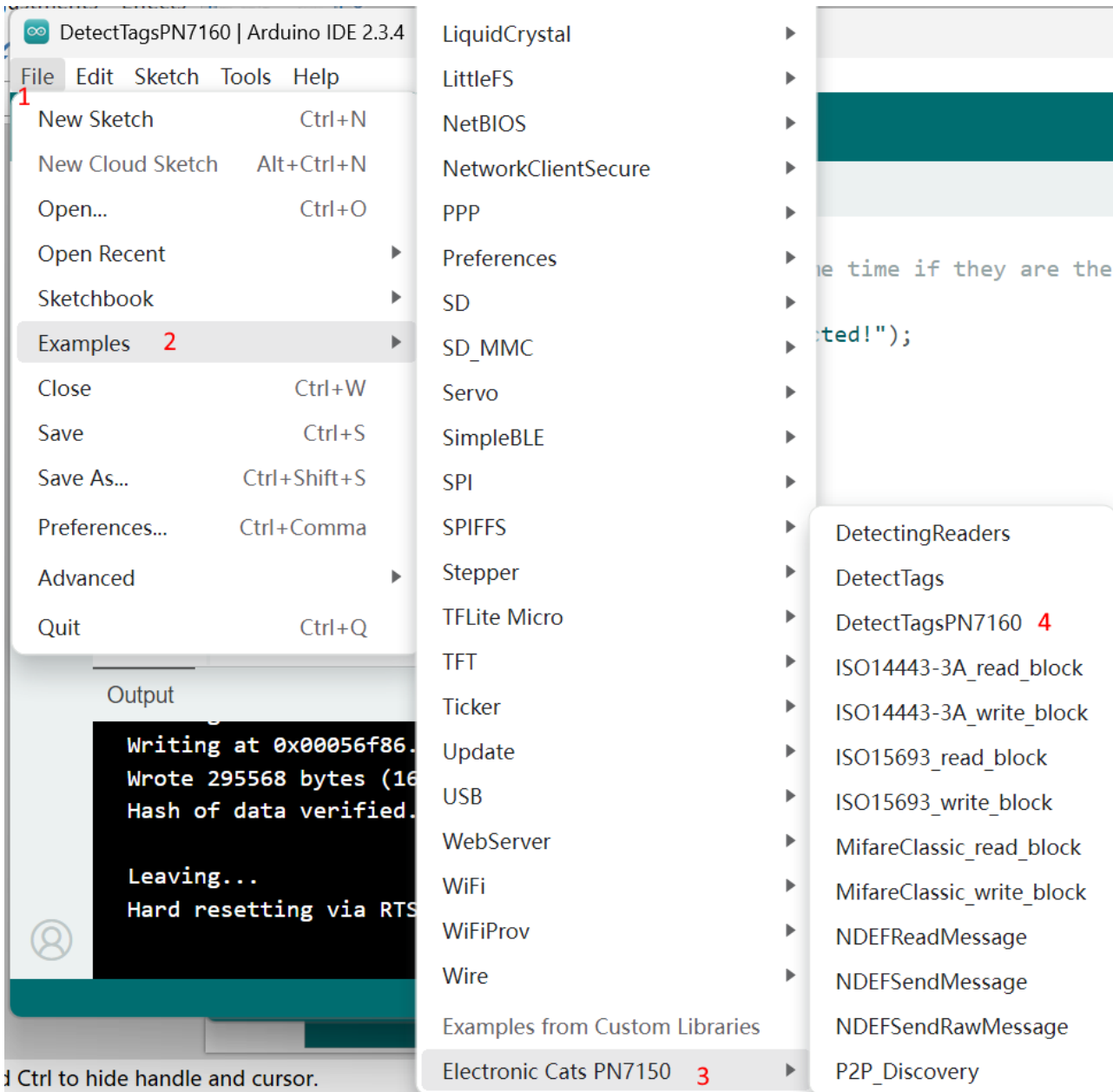
PN7160	ESP32_DEVKIT	ESP32-WROOM-32
DWL	D19	GPIO19
SDA	D21	GPIO21
SCL	D22	GPIO22
IRQ	D14	GPIO14
VEN	D13	GPIO13
VDD	3V3	
GND	5V/VIN	
VANT	GND	



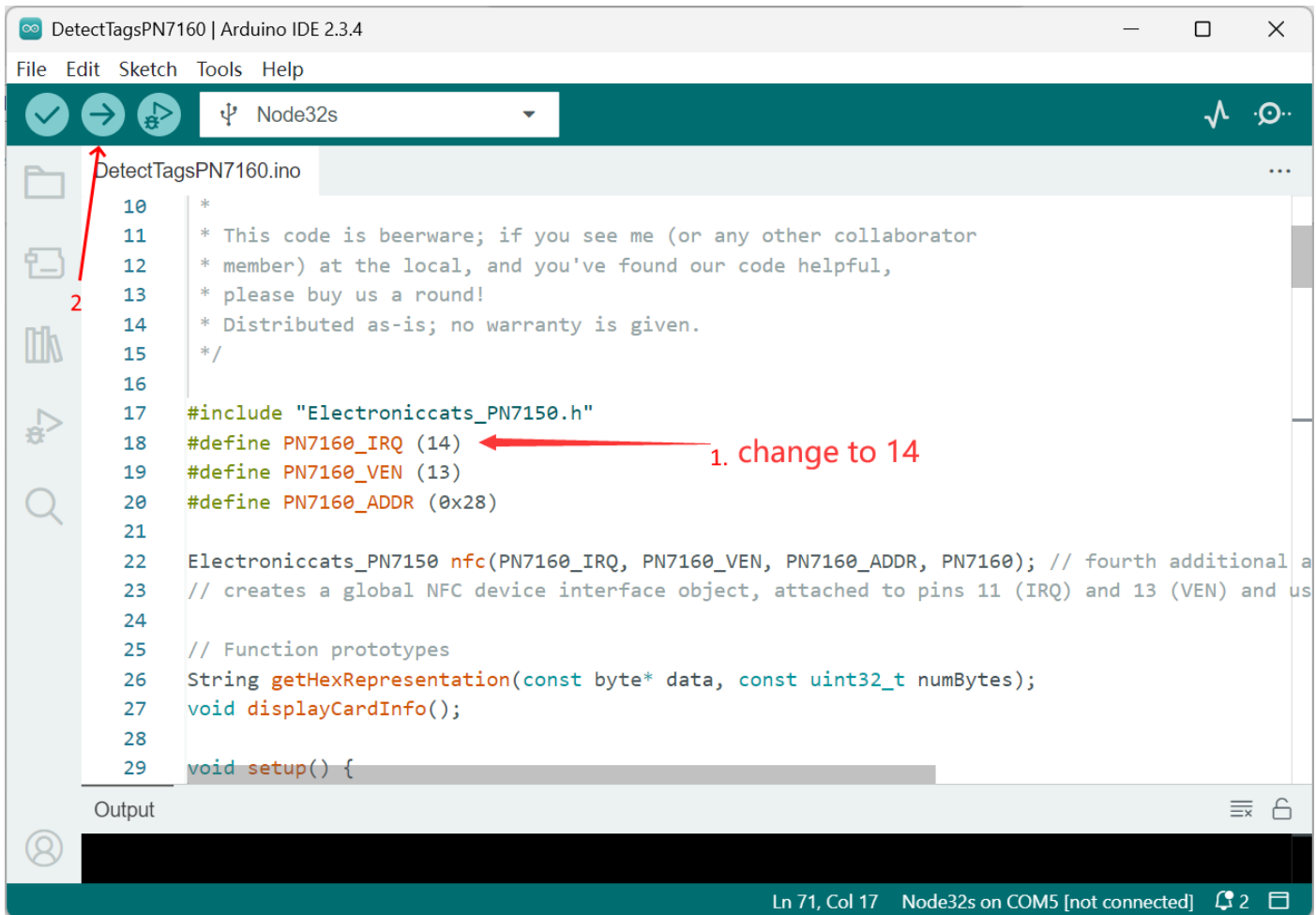
3. Arduino IDE 2.3 add Library



4. Open the Example Code



5. Modify the code and upload

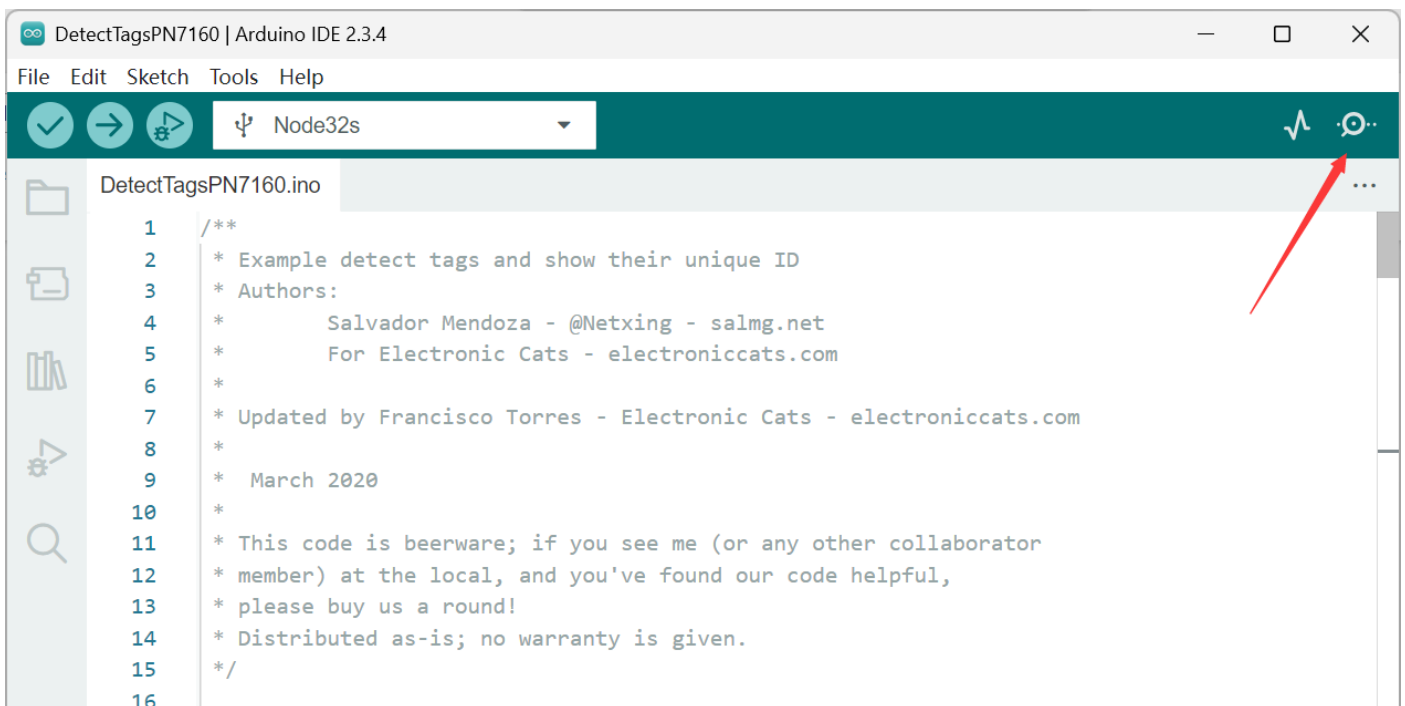


```
DetectTagsPN7160.ino
10  *
11  * This code is beerware; if you see me (or any other collaborator
12  * member) at the local, and you've found our code helpful,
13  * please buy us a round!
14  * Distributed as-is; no warranty is given.
15  */
16
17  #include "Electroniccats_PN7150.h"
18  #define PN7160_IRQ (14)
19  #define PN7160_VEN (13)
20  #define PN7160_ADDR (0x28)
21
22  Electroniccats_PN7150 nfc(PN7160_IRQ, PN7160_VEN, PN7160_ADDR, PN7160); // fourth additional a
23  // creates a global NFC device interface object, attached to pins 11 (IRQ) and 13 (VEN) and us
24
25  // Function prototypes
26  String getHexRepresentation(const byte* data, const uint32_t numBytes);
27  void displayCardInfo();
28
29  void setup() {
```

Output

Ln 71, Col 17 Node32s on COM5 [not connected]

6. Open Serial Monitor and Read the tag



```
DetectTagsPN7160.ino
1  /**
2  * Example detect tags and show their unique ID
3  * Authors:
4  *   Salvador Mendoza - @Netxing - salmg.net
5  *   For Electronic Cats - electroniccats.com
6  *
7  * Updated by Francisco Torres - Electronic Cats - electroniccats.com
8  *
9  * March 2020
10 *
11 * This code is beerware; if you see me (or any other collaborator
12 * member) at the local, and you've found our code helpful,
13 * please buy us a round!
14 * Distributed as-is; no warranty is given.
15 */
16
```

DetectTagsPN7160 | Arduino IDE 2.3.4

File Edit Sketch Tools Help

Node32s

DetectTagsPN7160.ino

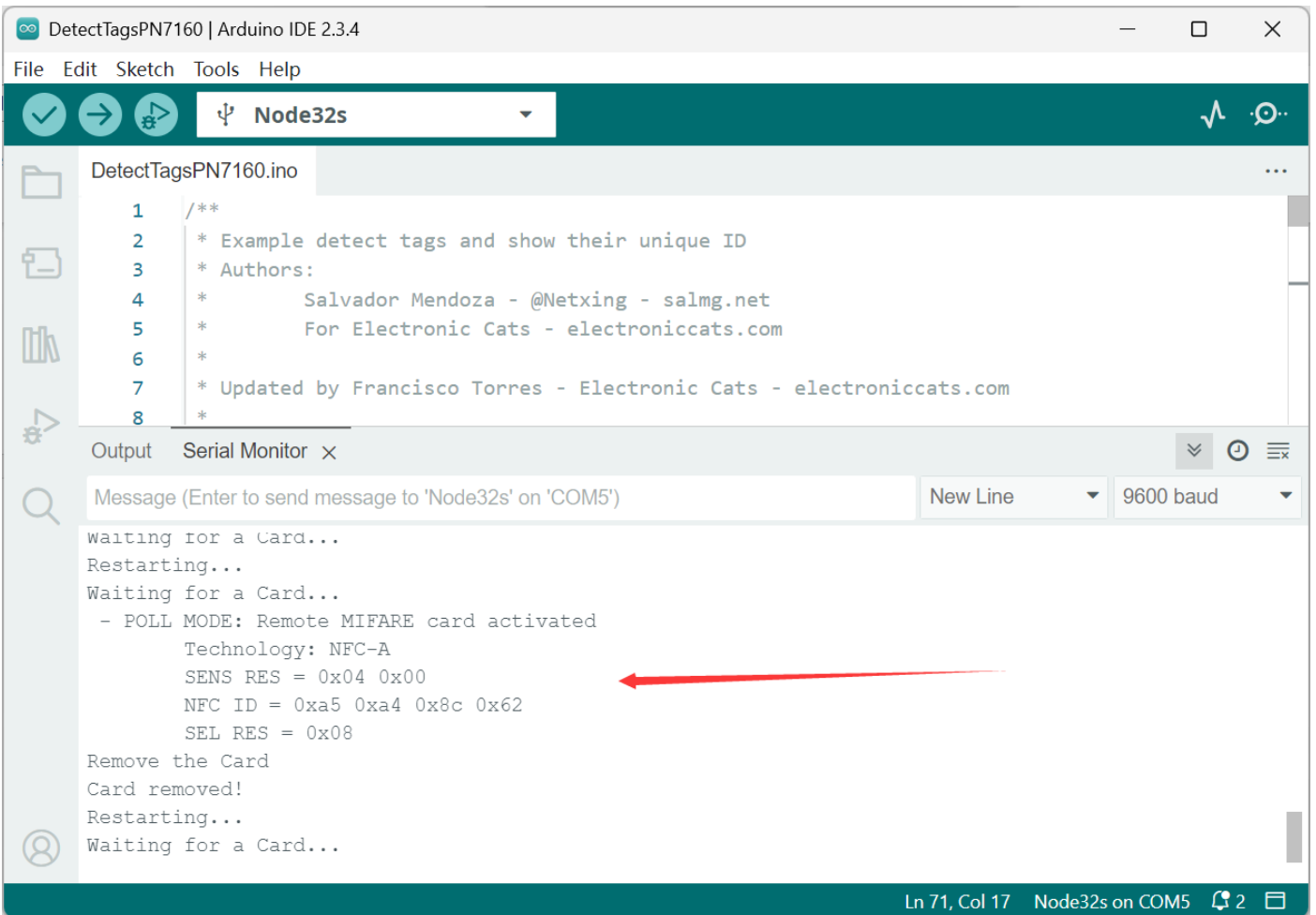
```
1 /**
2  * Example detect tags and show their unique ID
3  * Authors:
4  *     Salvador Mendoza - @Netxing - salmg.net
5  *     For Electronic Cats - electroniccats.com
6  *
7  * Updated by Francisco Torres - Electronic Cats - electroniccats.com
8  *
```

Output Serial Monitor x

Message (Enter to send message to 'Node32s' on 'COM5') New Line 9600 baud

waiting for a Card...
Restarting...
Waiting for a Card...
- POLL MODE: Remote MIFARE card activated
Technology: NFC-A
SENS RES = 0x04 0x00
NFC ID = 0xa5 0xa4 0x8c 0x62
SEL RES = 0x08
Remove the Card
Card removed!
Restarting...
Waiting for a Card...

Ln 71, Col 17 Node32s on COM5 2

The image shows the Arduino IDE interface. At the top, the window title is "DetectTagsPN7160 | Arduino IDE 2.3.4". Below the title bar is a menu bar with "File", "Edit", "Sketch", "Tools", and "Help". A toolbar contains icons for checking, running, and uploading, along with a dropdown menu set to "Node32s". The main editor area shows a file named "DetectTagsPN7160.ino" with the following code:

```
1 /**
2  * Example detect tags and show their unique ID
3  * Authors:
4  *     Salvador Mendoza - @Netxing - salmg.net
5  *     For Electronic Cats - electroniccats.com
6  *
7  * Updated by Francisco Torres - Electronic Cats - electroniccats.com
8  *
```

Below the editor is the "Output" window, which is currently displaying the "Serial Monitor" output. The output text is:

```
waiting for a Card...
Restarting...
Waiting for a Card...
- POLL MODE: Remote MIFARE card activated
Technology: NFC-A
SENS RES = 0x04 0x00
NFC ID = 0xa5 0xa4 0x8c 0x62
SEL RES = 0x08
Remove the Card
Card removed!
Restarting...
Waiting for a Card...
```

A red arrow points to the line "NFC ID = 0xa5 0xa4 0x8c 0x62". At the bottom of the IDE, the status bar shows "Ln 71, Col 17 Node32s on COM5" and a notification icon with the number "2".