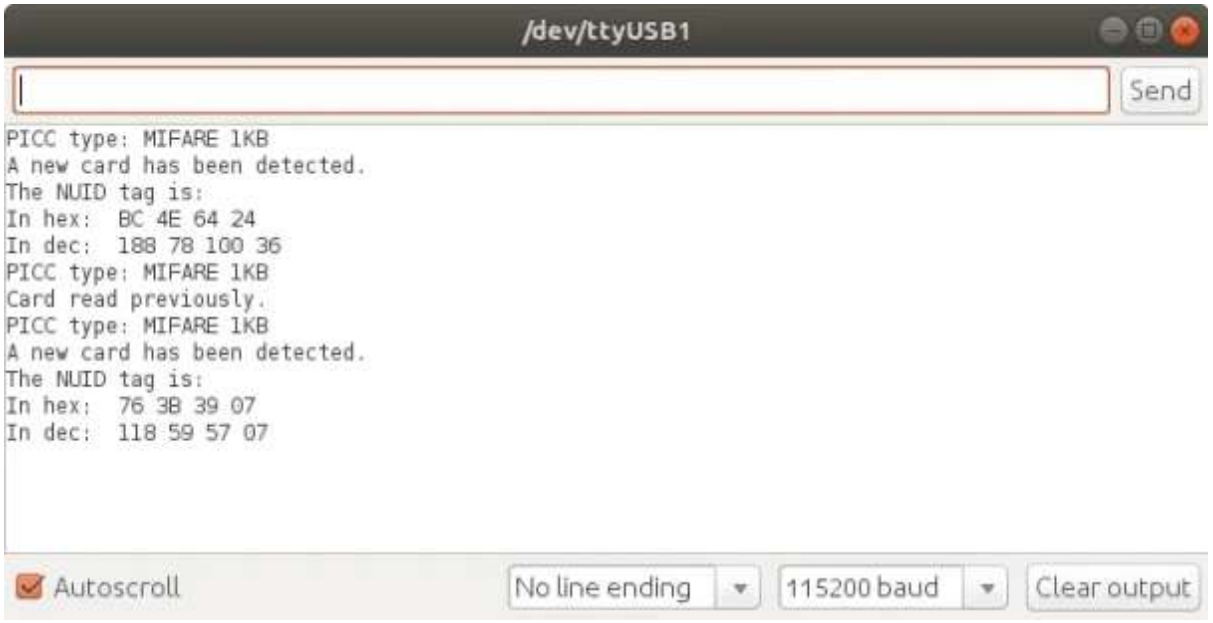
RFID module interfacing with Arduino Uno

```
#include <SPI.h>

#include <MFRC522.h>

#define RST_PIN         9          // Configurable, see typical pin layout above

#define SS_PIN          10         // Configurable, see typical pin layout above

MFRC522 mfrc522(SS_PIN, RST_PIN);  // Create MFRC522 instance

void setup() {

Serial.begin(115200);                   // Initialize serial communications with the PC

while (!Serial);                    // Do nothing if no serial port is opened (added for Arduinos based on ATMEGA32U4)

        SPI.begin();                    // Init SPI bus

        mfrc522.PCD_Init();             // Init MFRC522

        delay(4);                               // Optional delay. Some board do need more time after init to be ready, see Readme

        mfrc522.PCD_DumpVersionToSerial();      // Show details of PCD - MFRC522 Card Reader details

        Serial.println(F("Scan PICC to see UID, SAK, type, and data blocks..."));

}

void loop() {

        // Reset the loop if no new card present on the sensor/reader. This saves the entire process when idle.

        if ( ! mfrc522.PICC_IsNewCardPresent()) {

                return;

        }

        // Select one of the cards

        if ( ! mfrc522.PICC_ReadCardSerial()) {

                return;

        }

        // Dump debug info about the card; PICC_HaltA() is automatically called

        mfrc522.PICC_DumpToSerial(&(mfrc522.uid));

}
```


/dev/ttyUSB1
Send
PICC type: MIFARE 1KB
A new card has been detected.
The NUID tag is:
In hex: BC 4E 64 24
In dec: 188 78 100 36
PICC type: MIFARE 1KB
Card read previously.
PICC type: MIFARE 1KB
A new card has been detected.
The NUID tag is:
In hex: 76 3B 39 07
In dec: 118 59 57 07
Autoscroll
No line ending
115200 baud
Clear output