**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));

}

