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/*
 * This program is for Interfacing RFID Sensor with Arduino
 *
 * Designed by: Team UTD - Hubli
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 *
 *Connect 3.3v of RFID Sensor to 3.3v of Arduino
 *Connect GND of RFID Sensor to GND of Arduino
 *Connect RST pin of RFID Sensor to 9 of Arduino
 *Connect MISO pin of RFID Sensor to 12 of Arduino
 *Connect MOSI pin of RFID Sensor to 11 of Arduino
 *Connect SCK of RFID Sensor to 13 of Arduino
 *Connect SDA of RFID Sensor to 10 of Arduino
 *
 *
 * Upload this code and check output in Serial Monitor
 *
 */

#include<RFID.h>
#include<SPI.h>

#define SS_PIN 10
#define RST_PIN 9
RFID rfid(SS_PIN, RST_PIN);

void setup() {
  Serial.begin(9600);
  Serial.println("RFID interfacing with Arduino");
  SPI.begin();
  rfid.init();
}

void loop() {
  if (rfid.isCard())
  {
    if (rfid.readCardSerial()) {
      Serial.println(rfid.serNum[4]);
      rfid.halt();
    }
    delay(1000);
  }
}
```