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// importation of necessary headers #include <SPI.h> // header file #include <MFRC522.h> // header file for the rfid sensor (mfrc522) library #include <Keyboard.h> // include the Keyboard header file for the peripheral functionality of a keyboard // declaration of constant values #define RETURN_KEY 0xB0 // hex code of the enter key #define RST_PIN 5 // reset pin #define SS_PIN 10 // slave select pin int ledPin = 2; MFRC522 rfidSensor(SS_PIN,RST_PIN) ; // defining the sensor variable char enter = RETURN_KEY; // hex code set for the character String id; String acceptedCardID="2395862"; // accepted rfid card's id int unlocked = 0; // variable to specify locked or unlocked state void setup( ) { Serial.begin(9600); // initialising the Serial monitor Keyboard.begin(); // initialising the keyboard setup SPI.begin(); // initialising the SPI rfidSensor.PCD_Init(); // initialising the RFID sensor } void convertToString(byte *uid, byte uidSize) // function to convert and store the UID in String format { id = ""; for (byte i = 0;i<uidSize; i++) { id = id + String(uid[i], HEX); // converting to hex equivalent of each character and convert to string } } void loop( ) { if(! rfidSensor.PICC_IsNewCardPresent()) // checking if a new card is present { return; } if(! rfidSensor.PICC_ReadCardSerial()) // reading the card's serial number { return; } //rfidSensor.PICC_DumpToSerial(&(rfidSensor.uid)); // Printing UID of RFID card to Serial Monitor convertToString(rfidSensor.uid.uidByte,rfidSensor.uid.size); // Converting the UID to string format Serial.println(id); if(id==acceptedCardID) // checking if the card is accepted { Serial.println("RFID Accepted !!"); // Unlocking when Locked if(unlocked == 0){ // Enter followed by Password Keyboard.press(enter); Keyboard.release(enter); delay(100); Keyboard.print("FUTURE"); Keyboard.releaseAll(); delay(100); Keyboard.press(enter); Keyboard.releaseAll(); Serial.println("Unlocked !!"); delay(4000); unlocked = 1; } // Locking when unlocked else if(unlocked == 1){ // CTRL-ALT-DEL Keyboard.press(KEY_LEFT_CTRL); Keyboard.press(KEY_LEFT_ALT); Keyboard.press(KEY_DELETE); delay(100); Keyboard.releaseAll(); // DOWN ARROW AND ENTER Keyboard.press(KEY_DOWN_ARROW); delay(100); Keyboard.releaseAll(); Keyboard.press(enter); Keyboard.releaseAll(); Serial.println("Locked !!"); delay(5000); unlocked = 0; } } // case of RFID card getting rejected else { Serial.println(" RFID Not Accepted !! "); // Glow Red LED for 2 seconds as indication digitalWrite(ledPin,HIGH); delay(2000); digitalWrite(ledPin,LOW); return; } }

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