11/19/2019 Print Code

```
//JDY
    //RFID, Door Lock, Hello World
    #include <SPI.h>
    #include <MFRC522.h>
    #include <Servo.h>
 6
    #include <LiquidCrystal.h>
 7
 8
    #define SS PIN 53
 9
    #define RST PIN 5
10
    #define LED G 3 //define green LED pin
    #define LED R 2 //define red LED
11
    #define BUZZER 6 //buzzer pin
12
13
    MFRC522 mfrc522(SS PIN, RST PIN);
                                          // Create MFRC522 instance.
14
    Servo myServo; //define servo name
15
16
    // initialize the library with the numbers of the interface pins
17
    LiquidCrystal lcd(7, 8, 9, 10, 11, 12);
18
19
    void setup()
20
    {
      Serial.begin(9600);
21
                             // Initiate a serial communication
22
      SPI.begin();
                      // Initiate SPI bus
23
      mfrc522.PCD_Init(); // Initiate MFRC522
24
      myServo.attach(4); //servo pin
25
      myServo.write(180); //servo start position
26
      pinMode(LED G, OUTPUT);
      pinMode(LED R, OUTPUT);
27
      pinMode(BUZZER, OUTPUT);
28
29
      noTone(BUZZER);
30
31
32
    // set up the LCD's number of columns and rows:
33
      lcd.begin(16, 2);
34
    // Print a message to the LCD.
      lcd.print("Money Talks!");
35
36
       lcd.setCursor(0,1);
37
      lcd.print("BS Walks!");
38
39
    }
40
    void loop()
41
42
      // Look for new cards
43
      if ( ! mfrc522.PICC_IsNewCardPresent())
44
      {
45
        return;
46
      }
47
      // Select one of the cards
48
      if ( ! mfrc522.PICC ReadCardSerial())
49
       {
50
         return;
51
       //Show UID on serial monitor
52
53
54
      String content= "";
55
      byte letter;
56
      for (byte i = 0; i < mfrc522.uid.size; i++)</pre>
57
58
          Serial.print(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " ");</pre>
59
          Serial.print(mfrc522.uid.uidByte[i], HEX);
60
          content.concat(String(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " "));</pre>
61
          content.concat(String(mfrc522.uid.uidByte[i], HEX));
62
      }
63
64
      content.toUpperCase();
```

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```
65
      if (content.substring(1) == "29 28 4C D3") //change here the UID of the card/cards that you
    want to give access
66
67
68
        delay(500);
69
        digitalWrite(LED_G, HIGH);
        tone(BUZZER, 500);
70
71
        delay(500);
72
        noTone(BUZZER);
73
        myServo.write(0);
        delay(8000);
74
75
        myServo.write(180);
76
        digitalWrite(LED_G, LOW);
77
      }
78
79
     else {
80
81
        digitalWrite(LED_R, HIGH);
        tone(BUZZER, 300);
82
83
        delay(1000);
84
        digitalWrite(LED_R, LOW);
85
        noTone(BUZZER);
86
      }
    }
87
```