

FORCETOC**Version 0-10**

```
/*  RFID Door Control
    by Thomas Bloor - aka. TBSliver

    Version: 0-1

    This version has only a very basic functionality
    which is done using LED's, a hardware switch, and
    a random number generator.
*/

int redPin = 5;
int yellowPin = 4;
int greenPin = 3;
int lockPin = 6;
int rfidIn = 2;

void setup() {
    pinMode(redPin, OUTPUT);
    pinMode(yellowPin, OUTPUT);
    pinMode(greenPin, OUTPUT);
    pinMode(lockPin, OUTPUT);
    pinMode(rfidIn, INPUT); //change to serial input for RFID reader

    Serial.begin(9600); //Serial output to comp at 9600bps
    Serial.println("Serial Connection Innitiated");
    Serial.println("Welcome to HACMan Security");
    Serial.println("-----");

    randomSeed(analogRead(0));

    //startup LED pattern
    digitalWrite(redPin, HIGH);
    digitalWrite(yellowPin, HIGH);
    digitalWrite(greenPin, HIGH);
    delay(500);
    digitalWrite(redPin, LOW);
    digitalWrite(yellowPin, LOW);
    digitalWrite(greenPin, LOW);
    delay(250);
    digitalWrite(yellowPin, HIGH);
}

void loop() {
    int val=0,randNumber=0;

    val = digitalRead(rfidIn); //will be replaced with serial in
```

```
if(val==1){
    delay(500); //debounce
    randNumber = random(100); //only to get a non-unlock element

    if(randNumber<=50){ //insert search pattern here
        Serial.println("Access Granted");
        Serial.print("Number:");
        Serial.println(randNumber);
        Serial.println("");
        digitalWrite(greenPin, HIGH);
        digitalWrite(lockPin, HIGH);
        delay(3000);
        digitalWrite(greenPin, LOW);
        digitalWrite(lockPin, LOW);
    }
    else{
        Serial.println("Access Denied");
        Serial.print("Number:");
        Serial.println(randNumber);
        Serial.println("");
        digitalWrite(redPin, HIGH);
        delay(3000);
        digitalWrite(redPin, LOW);
    }
}
}
```

Category:Madlab projects

From:
<http://testwiki.hecatron.com/> - **Hacman DEMO ONLY**

Permanent link:
<http://testwiki.hecatron.com/doku.php?id=old:hackspace:door-system:door-control:version-0-1:previous-sub-versions>

Last update: **2022/11/30 16:34**

