RFID reading using an array

char \*myStrings[2][3] = {{" 0B 20 02 0A", " 0C 20 02 0C", " 0F 20 02 0C"},{" 04 20 02 0C", " 0B 2A 02 0C", " 0B 20 02 0C"}};

#include <SPI.h>

#include <MFRC522.h>

#define SS\_PIN 10

#define RST\_PIN 9

MFRC522 mfrc522(SS\_PIN, RST\_PIN);

void setup()

{

Serial.begin(9600);

SPI.begin();

mfrc522.PCD\_Init();

Serial.println("Enter the card.");

Serial.println();

pinMode(8,OUTPUT);

}

void loop()

{if ( ! mfrc522.PICC\_IsNewCardPresent()) {return;}if (! mfrc522.PICC\_ReadCardSerial())

{return;}

String content= "";byte letter;

for (byte i = 0; i < mfrc522.uid.size; i++)

{

content.concat(String(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " "));

content.concat(String(mfrc522.uid.uidByte[i], HEX));

}

content.toUpperCase();

if(content.equals(" 0C 20 02 0C"))

{ digitalWrite(8,HIGH);

delay(500);

digitalWrite(8,LOW);

Serial.println(content);

Serial.println("Found");

Serial.println();

delay(1000);}

else

{digitalWrite(8,HIGH);

delay(500);

digitalWrite(8,LOW);

delay(1000);

int count = 1;

for (int i = 0; i < 2; i++) {

for(int j = 0 ; j < 3;j++)

{String idnum = String(myStrings[i][j]);

if(idnum==content)

{

Serial.print("Found the card");

Serial.println(" at the position : "+String(count));

Serial.println("the card number is :"+content);}

else{if(count== 5)

{Serial.println("Card not found");}

else{count++;}}}}}}  
  
  
Creating JSON Object and sending JSON Object to the nodemcu

#include <SoftwareSerial.h>

#include<ArduinoJson.h>

SoftwareSerial s(5,6);

int anread = 0;

#include <SPI.h>

#include <MFRC522.h>

#define SS\_PIN 10

#define RST\_PIN 9

MFRC522 mfrc522(SS\_PIN, RST\_PIN);

int light = 8;

void setup()

{

pinMode(8,OUTPUT);

Serial.begin(9600);

SPI.begin();

mfrc522.PCD\_Init();

Serial.println("Enter the card.");

Serial.println();

s.begin(9600);

while(!Serial) continue;

}

void loop()

{

if ( ! mfrc522.PICC\_IsNewCardPresent())

{

return;

}if (! mfrc522.PICC\_ReadCardSerial())

{

return;

}

String content= "";

byte letter;

for (byte i = 0; i < mfrc522.uid.size; i++)

{

content.concat(String(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " "));

content.concat(String(mfrc522.uid.uidByte[i], HEX));

}

content.toUpperCase();

if(content.equals(" 0B 20 02 0C"))

{

digitalWrite(light,HIGH);

delay(300);

digitalWrite(light,LOW);

StaticJsonBuffer<1000> jsonBuffer;

JsonObject& root = jsonBuffer.createObject();

root ["data3"] = content;

if(s.available()>0)

{

root.printTo(s);

delay(500);

}

Serial.println();

delay(1000);

}

else

{

digitalWrite(light,HIGH);

delay(300);

digitalWrite(light,LOW);

StaticJsonBuffer<1000> jsonBuffer;

JsonObject& root = jsonBuffer.createObject();

root ["data3"] = content;

if(s.available()>0)

{

root.printTo(s);

delay(500);

}

Serial.println(content);

delay(1000);

}

}