

```
int motorPin = 3; //motor transistor is connected to pin 3

#include <SPI.h>
#include <MFRC522.h>

#define SS_PIN 10
#define RST_PIN 9
MFRC522 mfr522(SS_PIN, RST_PIN); // Create MFRC522
instance.

void setup()
{
  pinMode(motorPin, OUTPUT);
  Serial.begin(9600); // Initiate a serial communication
  SPI.begin(); // Initiate SPI bus
  mfr522.PCD_Init(); // Initiate MFRC522
  Serial.println("Looking for doors...");
  Serial.println();
}
void loop()
{
  // Look for new cards
  if ( ! mfr522.PICC_IsNewCardPresent())
  {
    return;
  }
  // Select one of the cards
  if ( ! mfr522.PICC_ReadCardSerial())
  {
    return;
  }
  //Show UID on serial monitor
```

```

Serial.print("UID tag :");
String content= "";
byte letter;
for (byte i = 0; i < mfrc522.uid.size; i++)
{
  Serial.print(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " ");
  Serial.print(mfrc522.uid.uidByte[i], HEX);
  content.concat(String(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " "));
  content.concat(String(mfrc522.uid.uidByte[i], HEX));
}
Serial.println();
Serial.print("Message : ");
content.toUpperCase();
if (content.substring(1) == "23 20 45 31") // door type 1
{
  digitalWrite(motorPin, HIGH);
  delay(1000); // delay one second
  digitalWrite(motorPin, LOW); //stop vibrating
  Serial.println("Door Type 1");
  Serial.println();
  delay(3000);
}

if (content.substring(1) == "ED D6 D2 1E") // door type 2
{
  digitalWrite(motorPin, HIGH);
  delay(500);
  digitalWrite(motorPin, LOW);
  delay(500);
  digitalWrite(motorPin, HIGH);
  delay(500);
  digitalWrite(motorPin, LOW);
  Serial.println("Door Type 2");
}

```

```
    Serial.println();  
    delay(3000);  
}  
  
else {  
    digitalWrite(motorPin, LOW);  
    Serial.println("Not the right door");  
    Serial.println();  
    delay(3000);  
}  
}
```