

TECHNOLOGY PARTNER







Radio Frequency Identification systems consist of an RFID tag (typically many tags) and an interrogator or reader. The interrogator emits a field of electromagnetic waves from an antenna, which are absorbed by the tag.

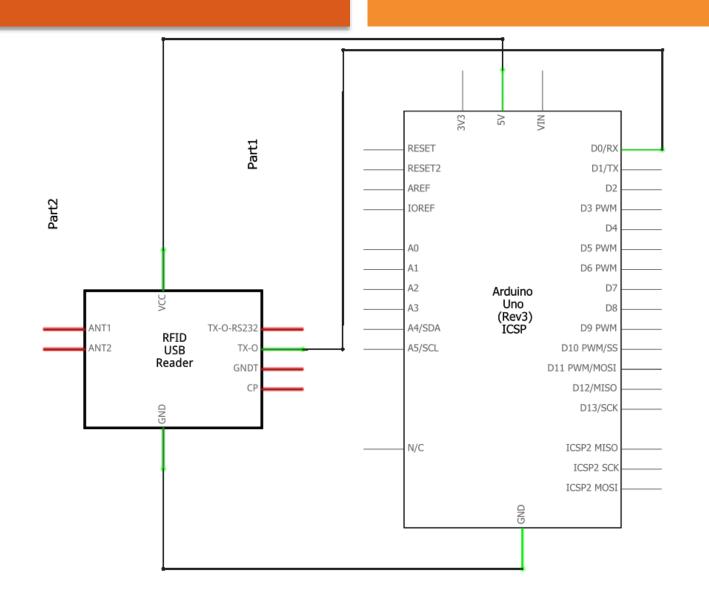
- A. Tag
- B. Reader

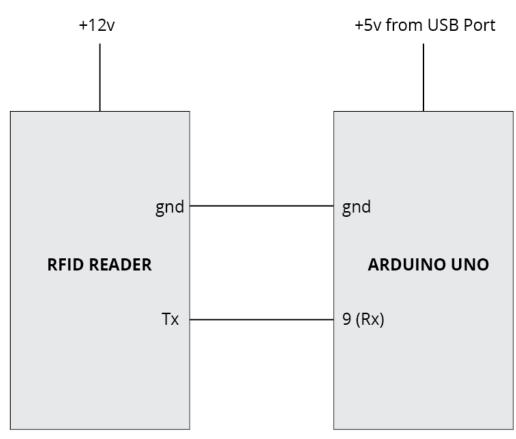




INTERFACING RFID WITH ARDUINO



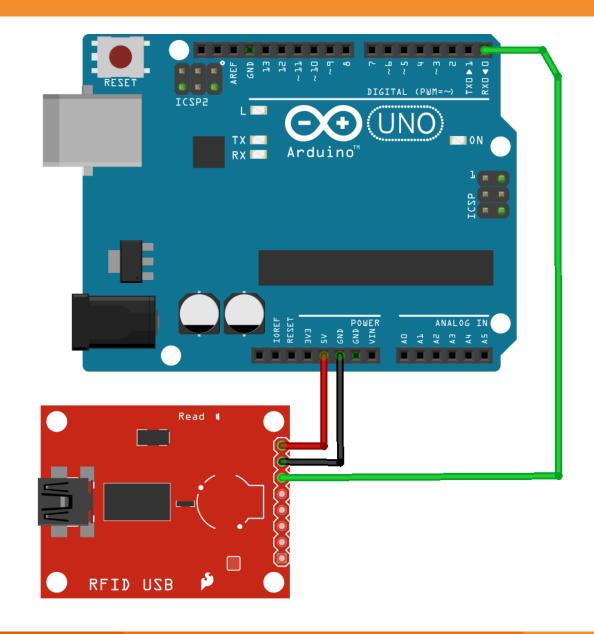




Interfacing RFID Reader to Arduino

INTERFACING RFID WITH ARDUINO



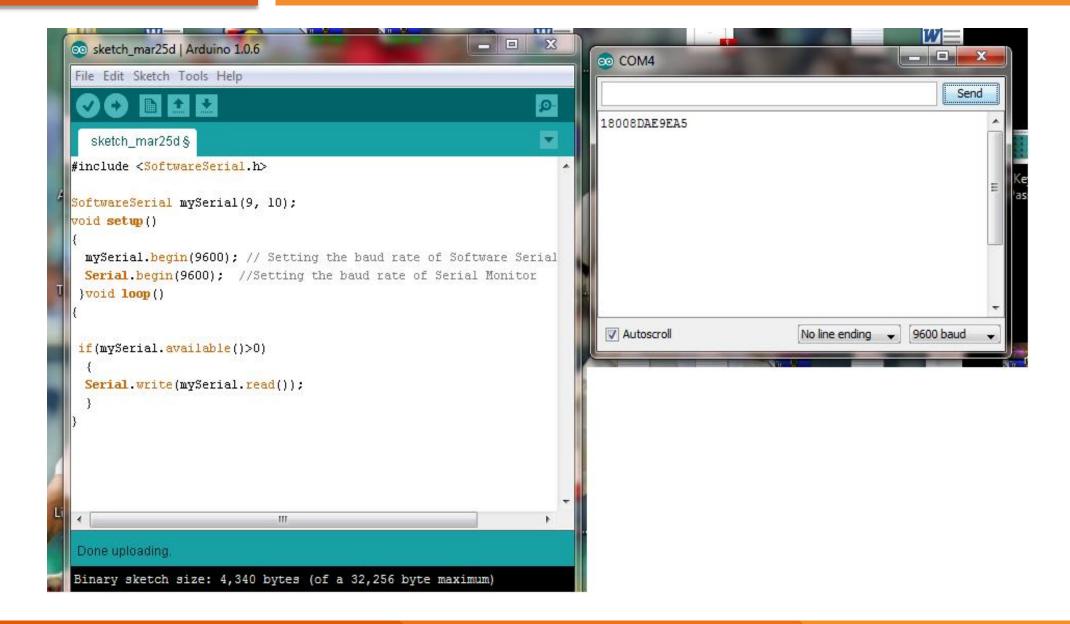




```
#include <SoftwareSerial.h>
SoftwareSerial mySerial(9, 10);
void setup()
 mySerial.begin(9600); // Setting the baud rate of Software Serial Library
 Serial.begin(9600); //Setting the baud rate of Serial Monitor
void loop()
if(mySerial.available()>0)
 Serial.write(mySerial.read());
```

INTERFACING RFID WITH ARDUINO





CSED

PROGRAM - INTERFACING RFID WITH ARDUINO (READ MULTIPLE TAG)



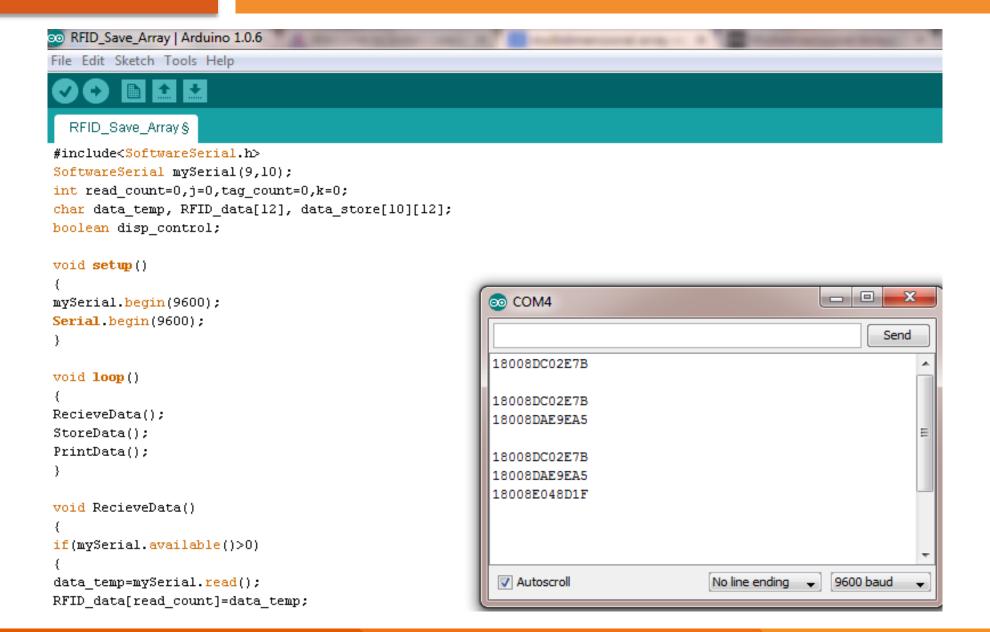
```
#include < Software Serial.h >
SoftwareSerial mySerial(9,10);
int read_count=0,tag_count=0;
int j=0,k=0; // Variabvles to iterate in for
loops
char data temp, RFID data[12],
data store[10][12];
boolean disp_control;
void setup()
mySerial.begin(9600);
Serial.begin(9600);
void loop()
RecieveData();
StoreData();
PrintData();
```

```
void RecieveData()
if(mySerial.available()>0)
data temp=mySerial.read();
RFID data[read count] = data temp;
read count++;
void StoreData()
if(read count = 12)
disp control=true;
for(k=tag\ count;k<=tag\ count;k++)
for(j=0;j<12;j++)
data_store[k][j]=RFID_data[j];
read count=0;
```

```
tag count++;
void PrintData()
if(disp control==true)
 for(k=0;k \le tag count;k++)
            for(j=0;j<12;j++)
             Serial.write(data store[k][j]);
 Serial.println();
disp control=false;
```

INTERFACING RFID WITH ARDUINO (READ MULTIPLE TAG)







QUERY & DOUBT SESSION



ADAPIVE ADAPIVE AND FOCUSED