TUTORIAL

Arduino Bluetooth fo Arduino.apk

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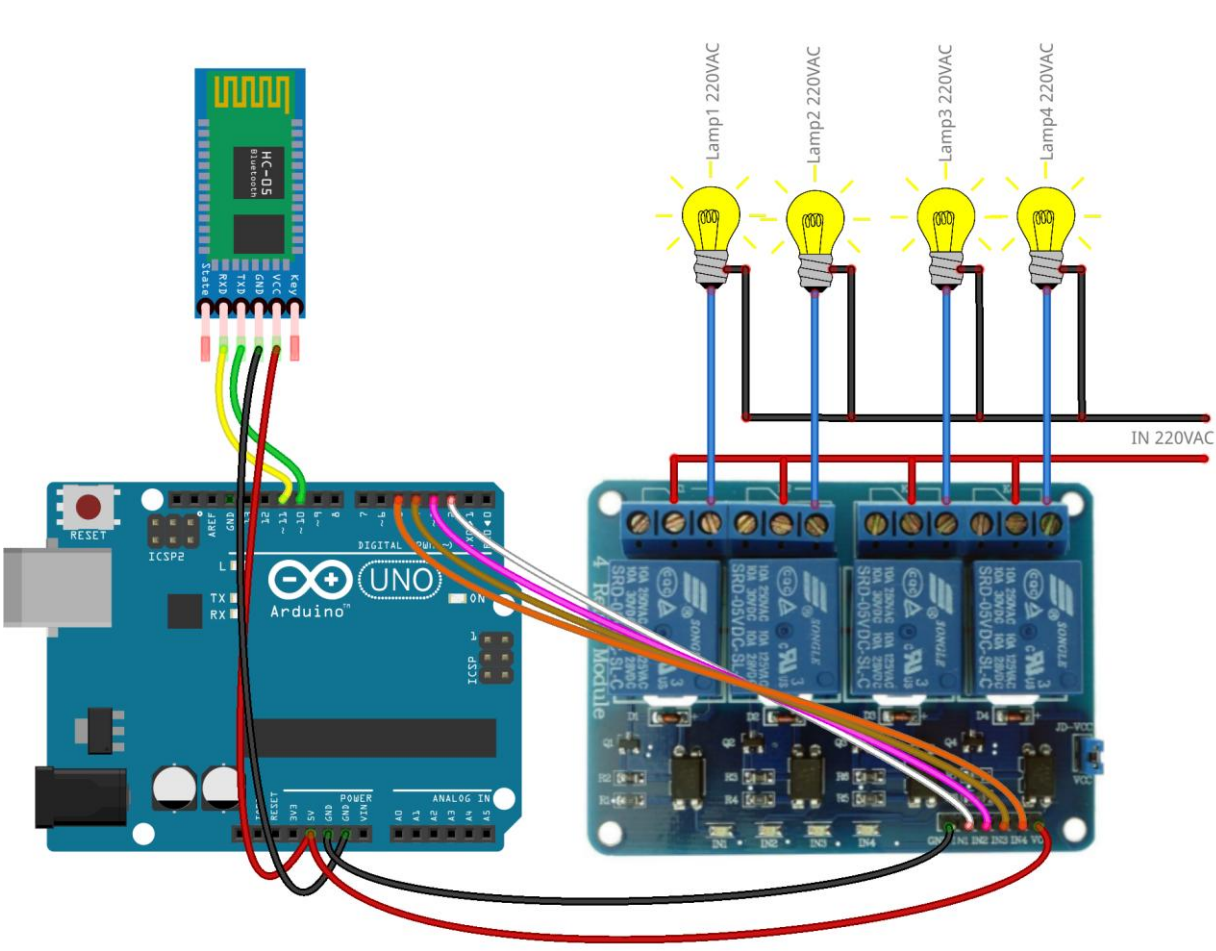
1. Wiring With Relay Modul 4CH



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2. Code Program Arduino

Copy code program below to arduino IDE project

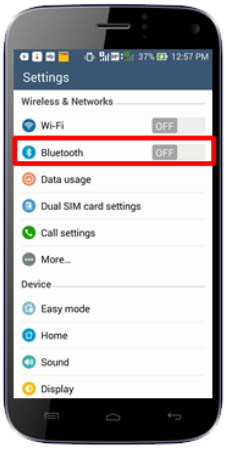
```
/*
Relay IN1 connected to PinOut 2 Arduino
Relay IN2 connected to PinOut 3 Arduino
Relay IN3 connected to PinOut 4 Arduino
Relay IN4 connected to PinOut 5 Arduino
--->you can connected to relay modul 4 channel

Serial data sending from Arduino Bluetooth Relay 4CH.apk
data '1'-'4' to on is Ralay CH 1-4
data 'A'-'D' to off is Ralay CH 1-4
data '9' to on ALL CH 1-4
data 'I' to off ALL CH 1-4
*/

#include <SoftwareSerial.h>
SoftwareSerial mySerial(10, 11); //Pin10 RX , Pin 11 TX connected to--> Bluetooth TX,RX

#define relay1 2
#define relay2 3
#define relay3 4
#define relay4 5

char val;
void setup() {
  pinMode(relay1,OUTPUT);
  pinMode(relay2,OUTPUT);
  pinMode(relay3,OUTPUT);
  pinMode(relay4,OUTPUT);
  digitalWrite(relay1,HIGH);
  digitalWrite(relay2,HIGH);
  digitalWrite(relay3,HIGH);
  digitalWrite(relay4,HIGH);
  mySerial.begin(9600);
  Serial.begin(9600);
}

void loop() {
//cek data serial from bluetooth android App
if( mySerial.available() >0 ) {
    val = mySerial.read();
    Serial.println(val);
}
//Relay is on
```

```
 if( val == '1' ) {
   digitalWrite(relay1,LOW); }
 else if( val == '2' ) {
   digitalWrite(relay2,LOW); }
 else if( val == '3' ) {
   digitalWrite(relay3,LOW); }
 else if( val == '4' ) {
   digitalWrite(relay4,LOW); }
 //relay all on
 else if( val == '9' ) {
   digitalWrite(relay1,LOW);
   digitalWrite(relay2,LOW);
   digitalWrite(relay3,LOW);
   digitalWrite(relay4,LOW);
}
 //relay is off
 else if( val == 'A' ) {
   digitalWrite(relay1,HIGH); }
 else if( val == 'B' ) {
   digitalWrite(relay2,HIGH); }
 else if( val == 'C' ) {
   digitalWrite(relay3,HIGH); }
 else if( val == 'D' ) {
   digitalWrite(relay4,HIGH); }
 //relay all off
 else if( val == 'I' ) {
   digitalWrite(relay1,HIGH);
   digitalWrite(relay2,HIGH);
   digitalWrite(relay3,HIGH);
   digitalWrite(relay4,HIGH);
 }

}


//Arduino project created by: pujar
//www.mutekla.com
//Apk Android remote controll suport this project, download on Playstore:
//Arduino Bluetooth Relay 4CH.apk
//https://play.google.com/store/apps/details?id=dev.merahkemarun.arduinobluetoothrelay4ch
```

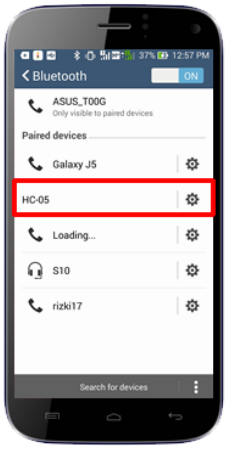
3. Try APPS and Pair Bluetooth Modul to Android Device

1. Turn on your bluetooth modul with arduino project.

2. Open [setting] menu on your Android device and TURN ON bluetooth



3. Open [Bluetooth Setting], search bluetooth modul device HC-05/HC06/HC07 etc and pairing with pasword default 1234



4. Open APPS Bluetooth Control for Arduino
5. Select Bluetooth device
6. Click Button Connection
7. Try click button to Turn ON/OFF on your lamp with bluetooth comunications

4. Recommendation product Best seller from Amazon.com

Product Name	Price	Link	Image
IEIK UNO R3 Board ATmega328P with USB Cable for Arduino	$8.99	http://amzn.to/219BA4L	
HC-05 Wireless Bluetooth Host Serial Transceiver Module Slave and Master RS232 For Arduino	$8.99	http://amzn.to/1U8v2S7	
4 Channel DC 5V Relay Module	$6.99	http://amzn.to/1U8u8Fg	
8 Channel DC 5V Relay Module	$8.98	http://amzn.to/1XbBtY3	
120pcs Multicolored 40pin Male to Female, 40pin Male to Male, 40pin Female to Female Breadboard Jumper Wires Ribbon Cables Kit	$9.99	http://amzn.to/22TGODi	
Complete Starter Kit for Arduino	$52.99	http://amzn.to/1regjut	
37-in-1 Sensor Module Kit for Arduino	$28.68	http://amzn.to/1UCzIwz