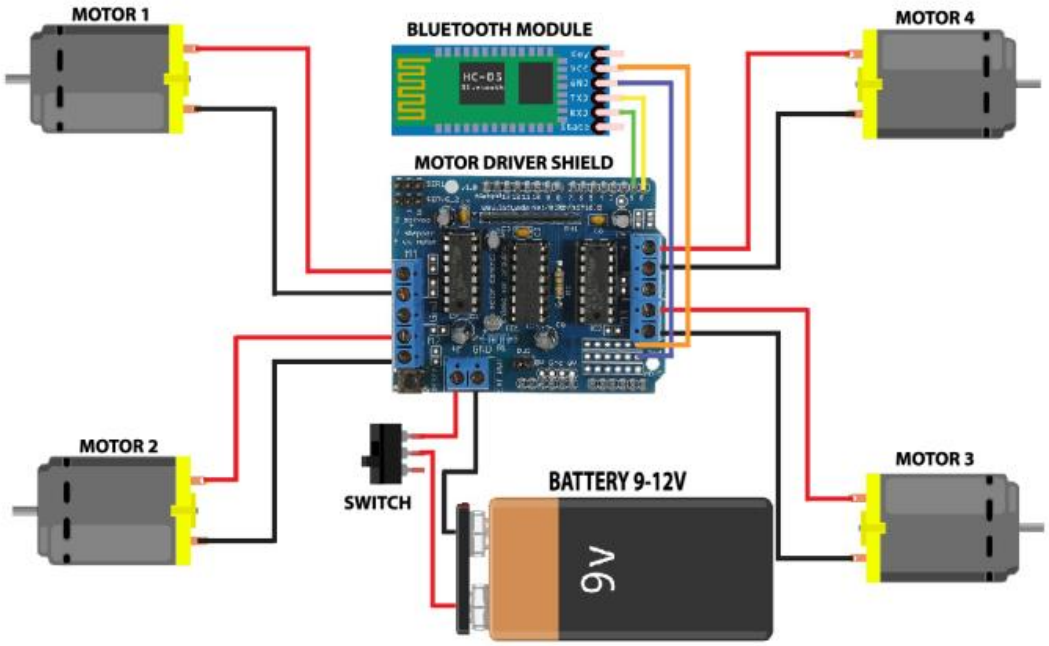
# Bluetooth Controlled Remote Control Car Using Arduino

**Working**

Bluetooth devices use electromagnetic waves to connect mobile phones and computers. Bluetooth products include a small Bluetooth module and its applicable Bluetooth wireless communication and mobile phone software. When two Bluetooth devices want to communicate with each other, they must be matched. The communication between Bluetooth devices is carried out in the short-range (called Weiwei network, which refers to the Internet formed by the application of Bluetooth technology) of the temporary Internet. This type of Internet can accommodate two to eight devices for connection. When the network space is successfully established, one device is the key device, and all other devices are the slave devices.

## Circuit diagram




## Components used:

Arduino UNO

Bluetooth module

Battery lithium-ion 9v

Chassis

Motor driver shield

Wheels x4

Male and female jumper wires

Motors used- 2 DC

## Project Code:

```
#include <SoftwareSerial.h>
SoftwareSerial bl(2,4);//rx,tx
void setup()
{
  for(int i=10;i<14;i++)
  {
    pinMode(i,OUTPUT);
  }
  Serial.begin(9600);
  bl.begin(9600);
  // put your setup code here, to run once:

}
void forward()
{
    digitalWrite(10,0);
    digitalWrite(11,1);
    digitalWrite(12,1);
    digitalWrite(13,0);
}
  void bacward()
  {
    digitalWrite(10,1);
    digitalWrite(11,0);
    digitalWrite(12,0);
    digitalWrite(13,1);
  }
```

```
 void left()
 {
  digitalWrite(10,0);
  digitalWrite(11,1);
  digitalWrite(12,0);
  digitalWrite(13,0);
 }
 void right()
 {
  digitalWrite(10,0);
  digitalWrite(11,0);
  digitalWrite(12,1);
  digitalWrite(13,0);
 }
 void sto()
  {
   digitalWrite(10,0);
   digitalWrite(11,0);
   digitalWrite(12,0);
   digitalWrite(13,0);
  }
void loop()
{
 if (bl.available())
 {
  char ch=(bl.read());
  if (ch=='F')
  {
   forward();
  }
```

```
    if (ch=='B')
    {
      bacward();
    }
    if(ch=='L')
    {
      left();
    }
    if (ch=='R')
    {
      right();
    }
    if (ch=='S')
    {
      sto();
    }
    Serial.write(bl.read());
  }
  if(Serial.available())
  {
    bl.write(Serial.read());
  }
  // put your main code here, to run repeatedly:

}
```