



*Project: Bluetooth
Controlled Car
using arduino uno*

إعداد الطالبتين:

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Bluetooth Controlled Car using arduino uno:

Components and Supplies:

Arduino Uno ❖

HC-06Bluetooth Module ❖

Motor Driver Shiled ❖

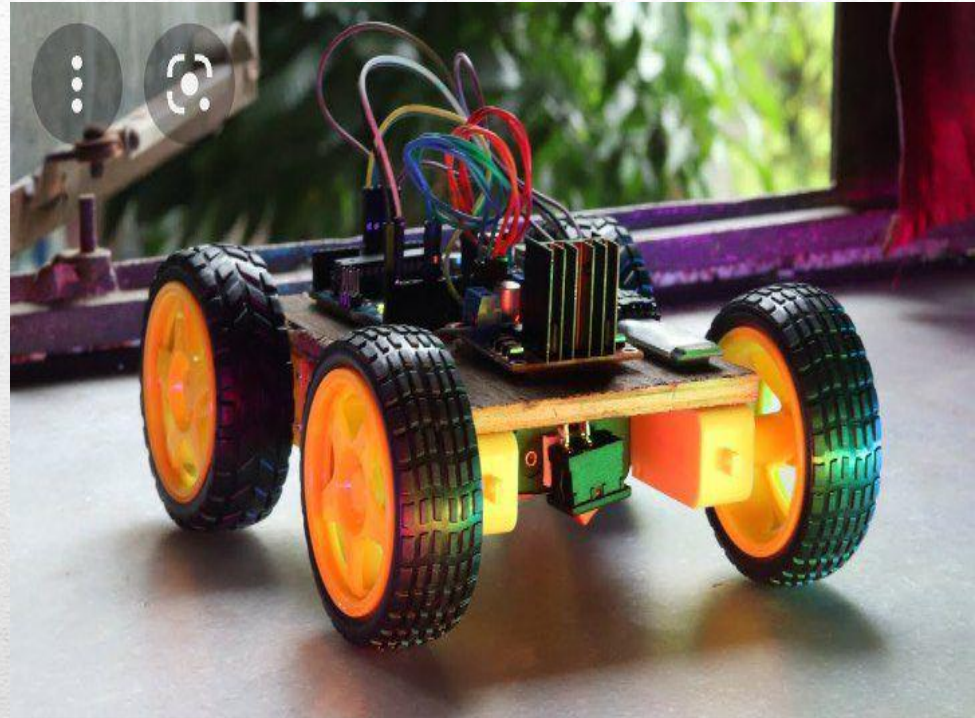
4 Motor ❖

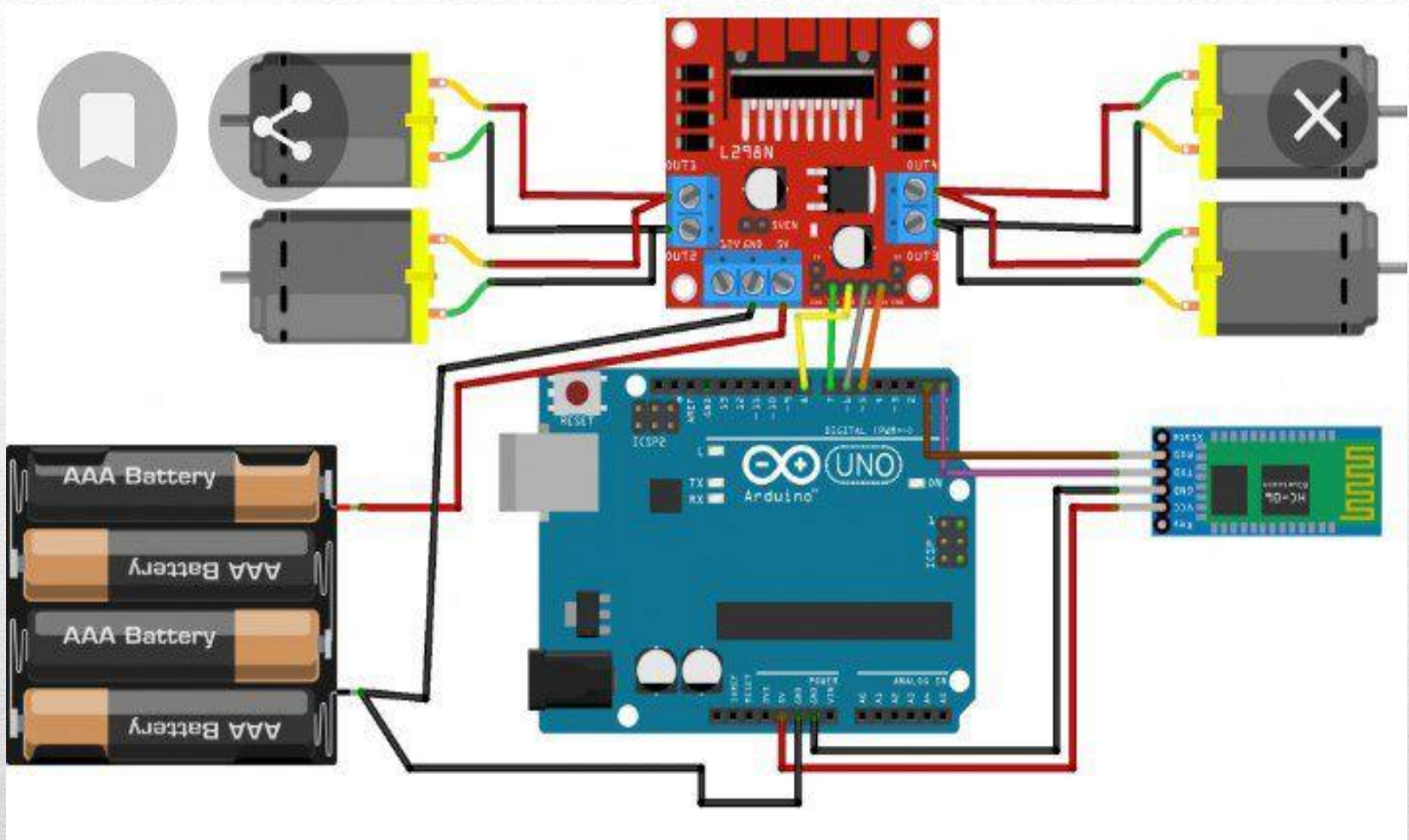
Jumper Wires ❖

Apps and online services:

Arduino bluetooth controller ❖

Arduino IDE ❖





مخطط الدارة

Code:

```
char t;
void setup() {
  pin Mode(13,OUTPUT); //left motors forward
  pin Mode(12,OUTPUT); //left motors reverse
  pin Mode(11,OUTPUT); //right motors forward
  pin Mode(10,OUTPUT); //right motors reverse
  pinMode(9,OUTPUT); //Led
  Serial.begin(9600);
}
void loop() {
  if(Serial.available())
  {
    t = Serial.read();
    Serial.println(t);
  }
}
```

```
else if(t == 'W'){
//turn led on or off)
digitalWrite(9,HIGH);
}
else if(t == 'w'){
digitalWrite(9,LOW);
else if(t == 'S')
//STOP (all motors stop)
digitalWrite(13,LOW);
digitalWrite(12,LOW);
digitalWrite(11,LOW);
digitalWrite(10,LOW);
}
delay(100);
}
```

```
if(t == 'F'){          //move forward(all motors rotate in forward direction)
    digitalWrite(13,HIGH);
    digitalWrite(11,HIGH);
}
else if(t == 'B'){    //move reverse (all motors rotate in reverse direction)
    digitalWrite(12,HIGH);
    digitalWrite(10,HIGH);
}

else if(t == 'L'){    //turn right (left side motors rotate in forward
direction, right side motors doesn't rotate)
    digitalWrite(11,HIGH);
}

else if(t == 'R'){
    //turn left (right side motors rotate in forward direction, left side motors
doesn't rotate)
    digitalWrite(13,HIGH); }
```

