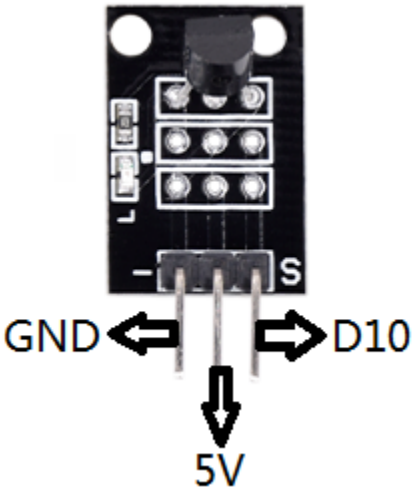
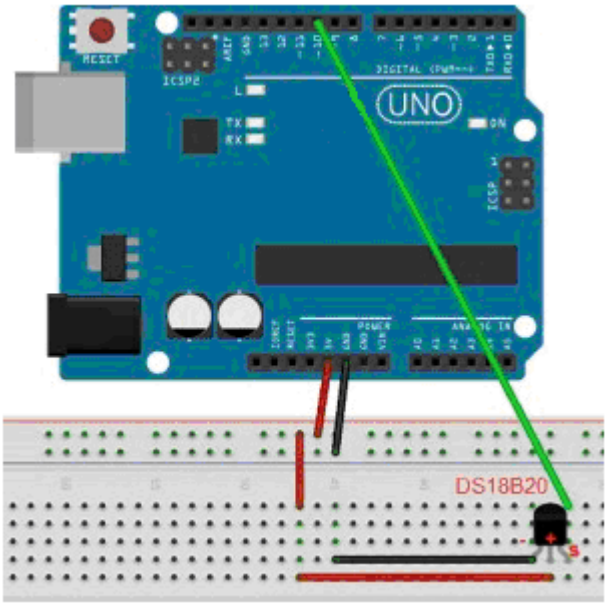
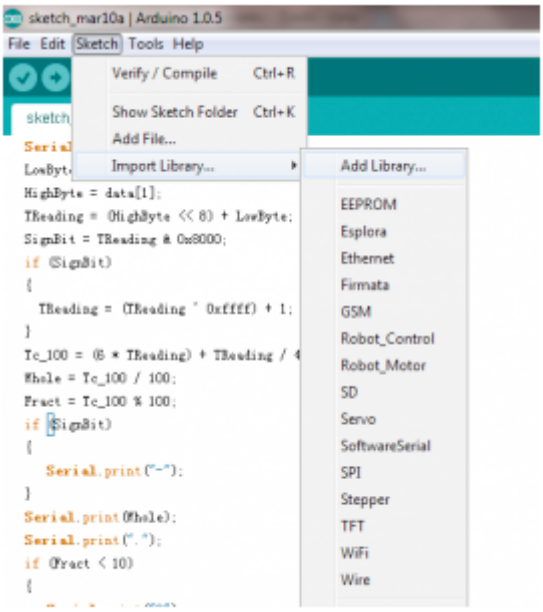


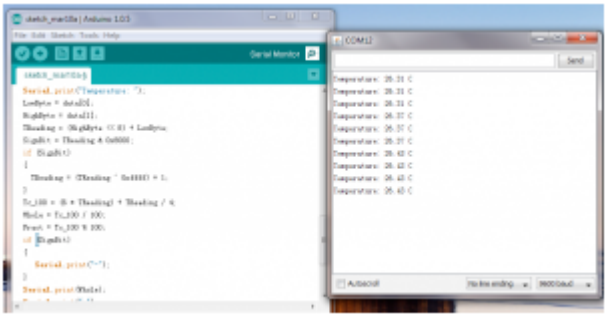
Step 1: connect DS18B20 sensor to Arduino as per following Circuit Connection Graph



Step 2: Download OneWire libray and import the zip file into Arduino IDE. If you already have the OneWire Library, skip this step.

To import library into Arduino IDE, click Sketch ->Import and then select OneWire.zip file from your download folder. See following picture:





CODE:

/* DS18S20 Temperature Sensor Module sample project
This is our website www.weikedz.com
For bulk orders, please feel free to contact
sophie@weikedz.com. If any question, for orders,

for technical problems, pls contact us.

We will response you fastest time.

*/

```
#include <OneWire.h>
int inPin=10; // define D10 as input pin connecting to DS18S20 S pin
OneWire ds(inPin);

void setup(void) {
  Serial.begin(9600);
}

void loop(void) {
  int HighByte, LowByte, TReading, SignBit, Tc_100, Whole, Fract;
  byte i;
  byte present = 0;
  byte data[12];
  byte addr[8];

  if ( !ds.search(addr)) {
        ds.reset_search();
        return;
  }


  ds.reset();
  ds.select(addr);
  ds.write(0x44,1);

  delay(1000);


  present = ds.reset();
  ds.select(addr);
  ds.write(0xBE);



  for ( i = 0; i < 9; i++) {
     data[i] = ds.read();
  }
  Serial.print("Temperature: ");
  LowByte = data[0];
  HighByte = data[1];
```

```
    TReading = (HighByte << 8) + LowByte;
    SignBit = TReading & 0x8000;
    if (SignBit)
    {
       TReading = (TReading ^ 0xffff) + 1;
    }
    Tc_100 = (6 * TReading) + TReading / 4;
    Whole = Tc_100 / 100;
    Fract = Tc_100 % 100;
    if (SignBit)
    {
         Serial.print("-");
    }
    Serial.print(Whole);
    Serial.print(".");
    if (Fract < 10)
    {
         Serial.print("0");
    }
    Serial.print(Fract);
    Serial.print(" C\n");
}
```