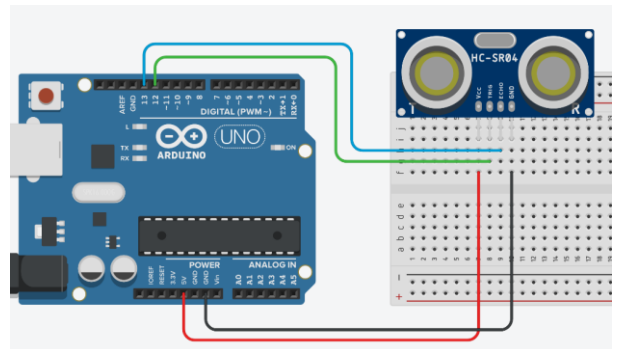
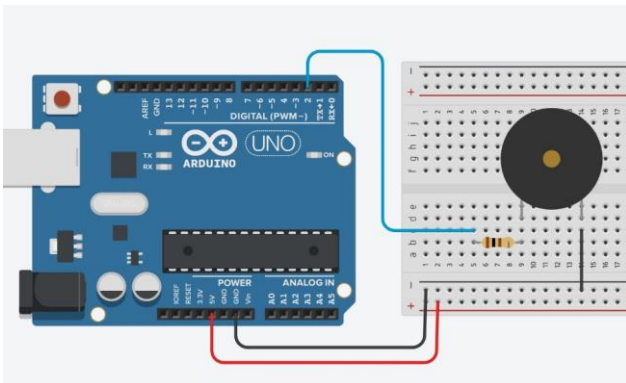
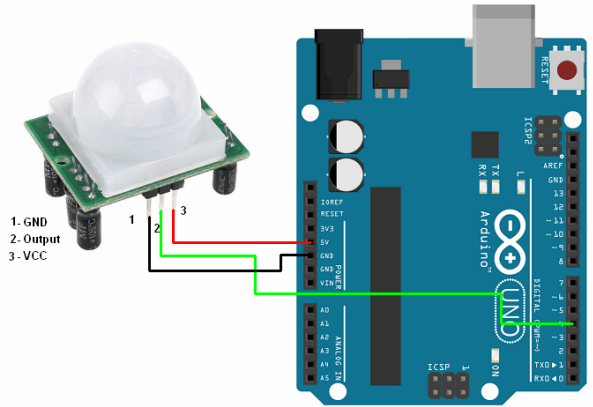
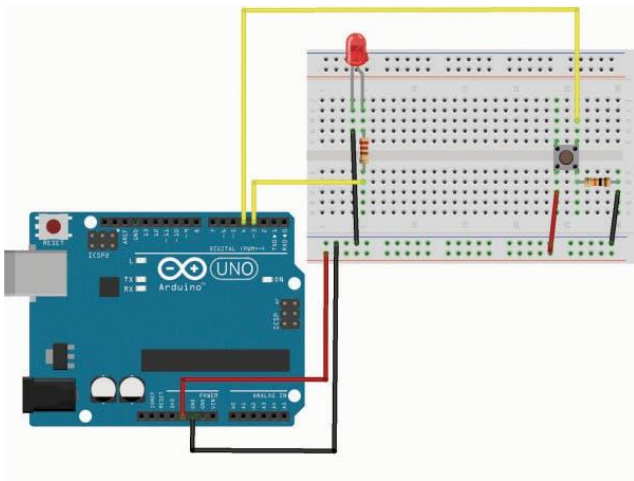
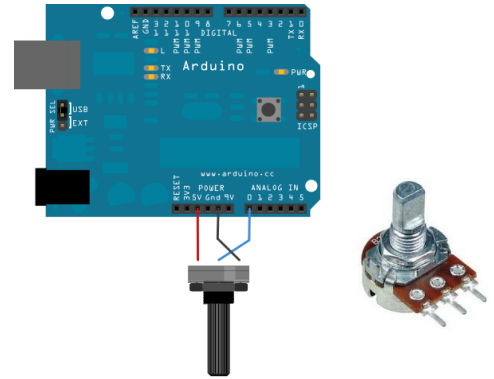
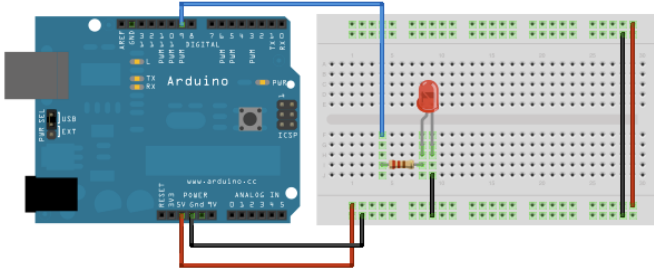
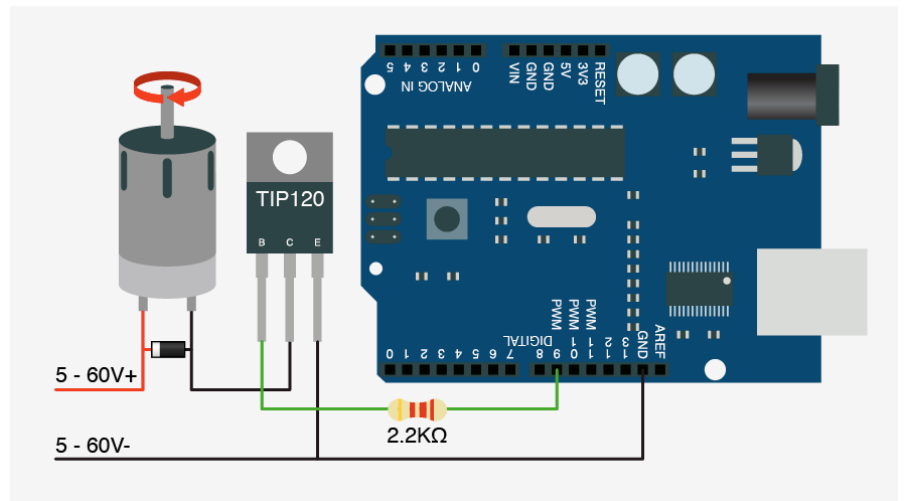
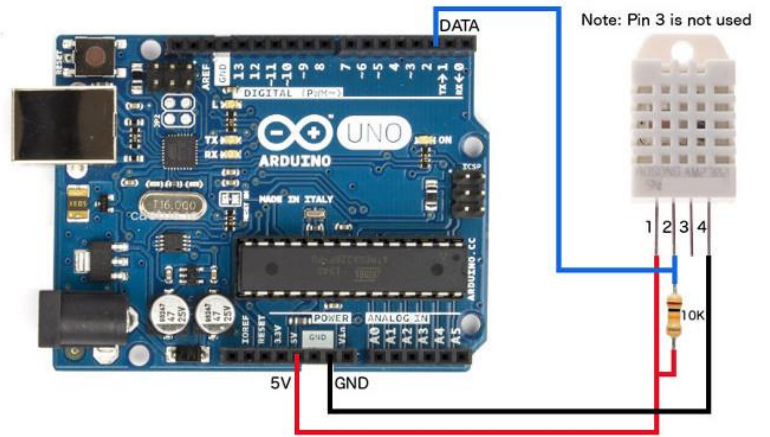
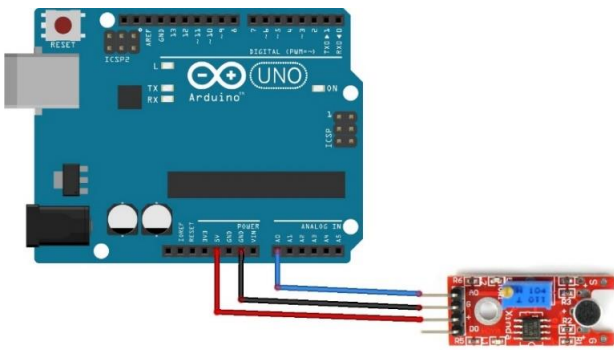
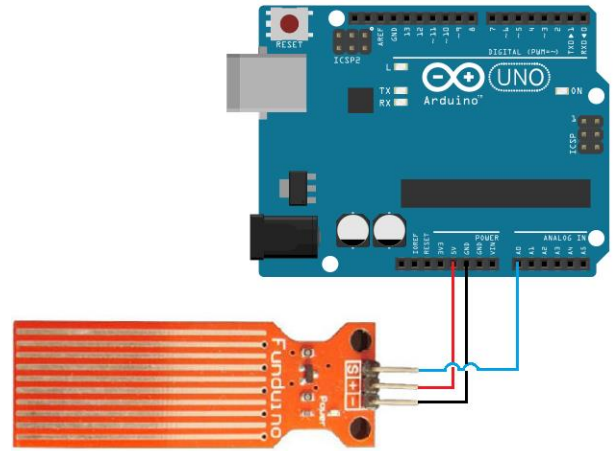
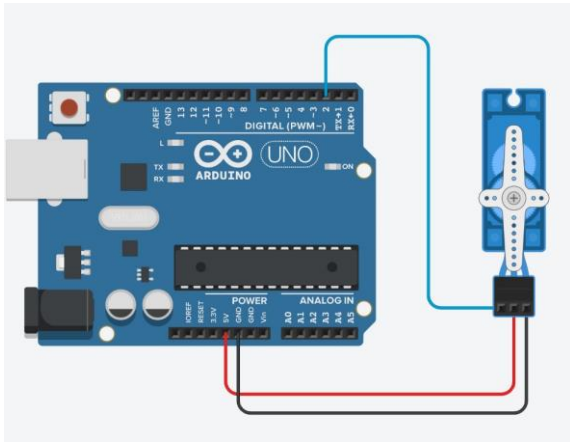


# Dozvoljene šeme





## Dozvoljeni kodovi

### Učitavanje stringa preko serijskog monitora

```
String pom = Serial.readString(); // očitavanje stringa sa tastature
int broj = pom.toInt(); // konverzija stringa u cijeli broj
```

### Konverzija temperature kod senzora TMP36

```
temp = (float) vrijednost / 1024; // konverzija u opseg od 0 do 1
celzijus = (5*temp-0.5)*100; // konverzija u stepene Celzijusove
```

### Način softverske kontrole piezo generatora zvuka

```
void loop(){
  tone(pin, 1000); // zvuk sa periodom 1kHz
  delay(1000);
  noTone(pin); // prekid zvuka
  delay(1000);
}
```

### Primjer softverske kontrole servo motora

```
#include <Servo.h> // biblioteka za rad sa servo motorom

Servo servo;
int motorPin = 2;

void setup() {
  servo.attach(motorPin);
}

void loop() {
  servo.write(0); // 0 stepeni
  delay(2000);
  servo.write(90); // 90 stepeni
  delay(2000);
}
```

## **Mjerenje distance**

```
void setup() {
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  Serial.begin(9600);
}

void loop() {
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);

  vrijeme = pulseIn(echoPin, HIGH);
  distanca = vrijeme*0.034/2;

  Serial.print("Distanca: ");
  Serial.println(distanca);
}
```

## **Biblioteke za DHT senzor**

- DHT sensor library by Adafruit
- Adafruit Unified Sensor by Adafruit