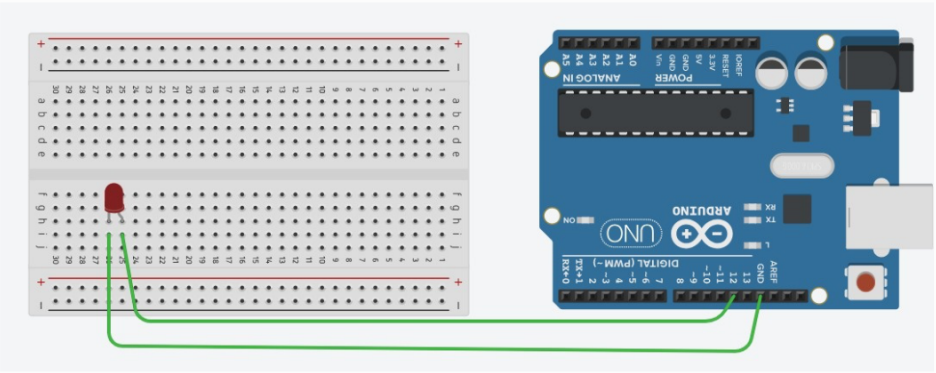
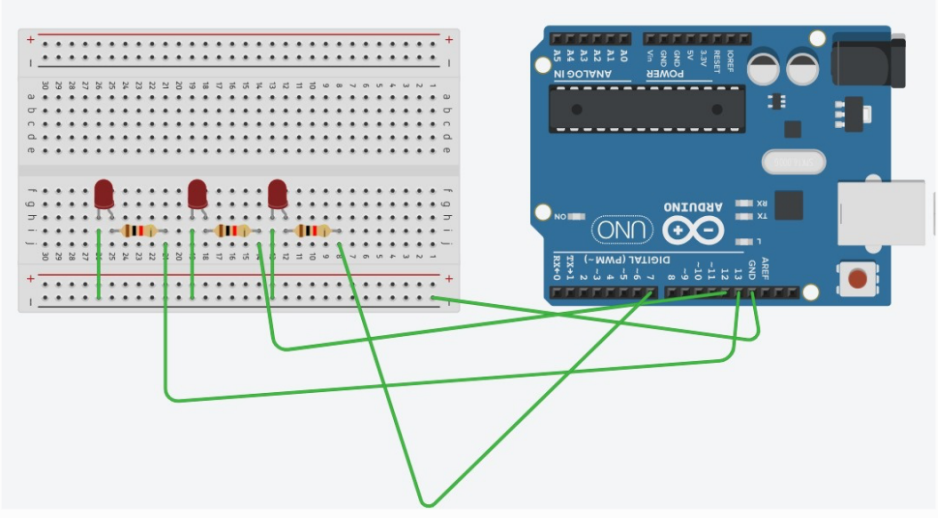
① Blink

```
void setup(){
  pinMode(13, Output);
}
void loop(){
  digitalWrite(13, High);
  delay(1000);
  digitalWrite(13, Low);
  delay(1000);
}
```



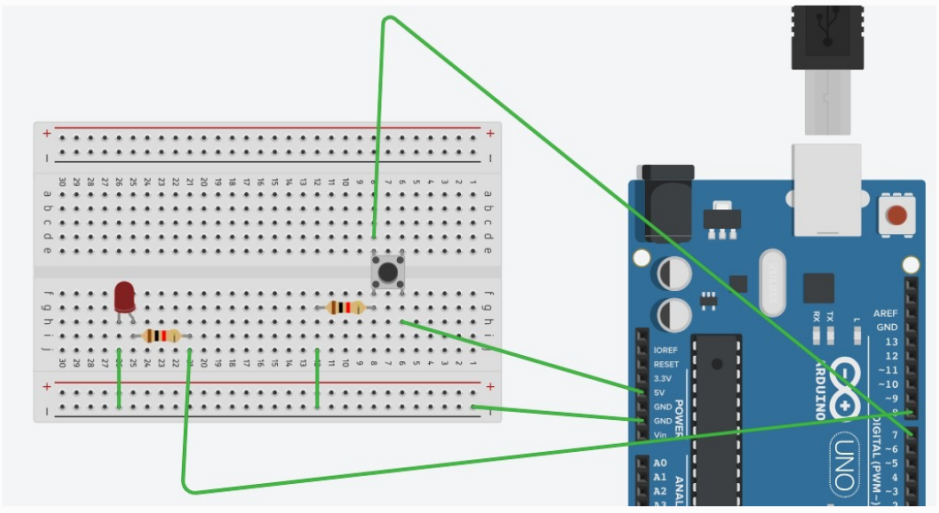
② 3 LED

```
void setup(){
  pinMode(13, OUTPUT);
  pinMode(14, OUTPUT);
  pinMode(15, OUTPUT);
}
void loop(){
  digitalWrite(13, High);
  delay(1000);
  digitalWrite(13, low);
  delay(1000);
  digitalWrite(14, high);
  delay(1000);
  digitalWrite(14, low);
  delay(1000);
  digitalWrite(15, high);
  delay(1000);
  digitalWrite(15, low);
  delay(1000);
}
```



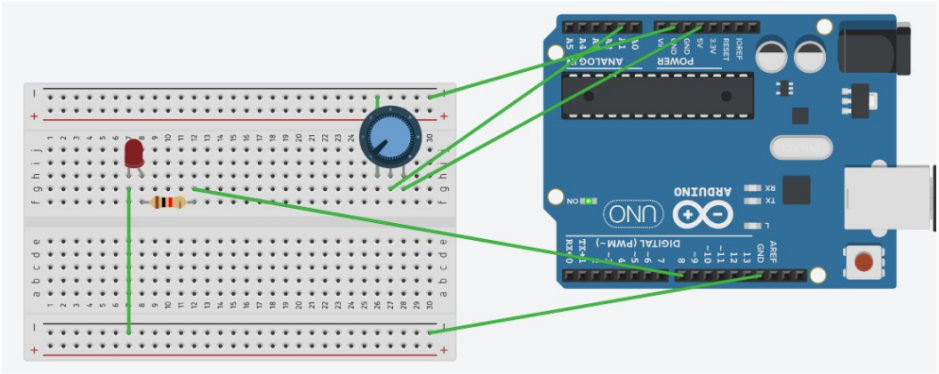
3) Push Button

```
#define Led_pin 8
#define Button_pin 7
void setup(){
pinMode(Button_pin, INPUT);
pinMode(Button_pin, OUTPUT);
}
void loop(){
  if(digitalRead(Button_pin) == High){
      digitalWrite(Led_pin, High);
  }
  else{
    digitalWrite(Led_pin, Low);
  }
}
```



4) Potentiometer

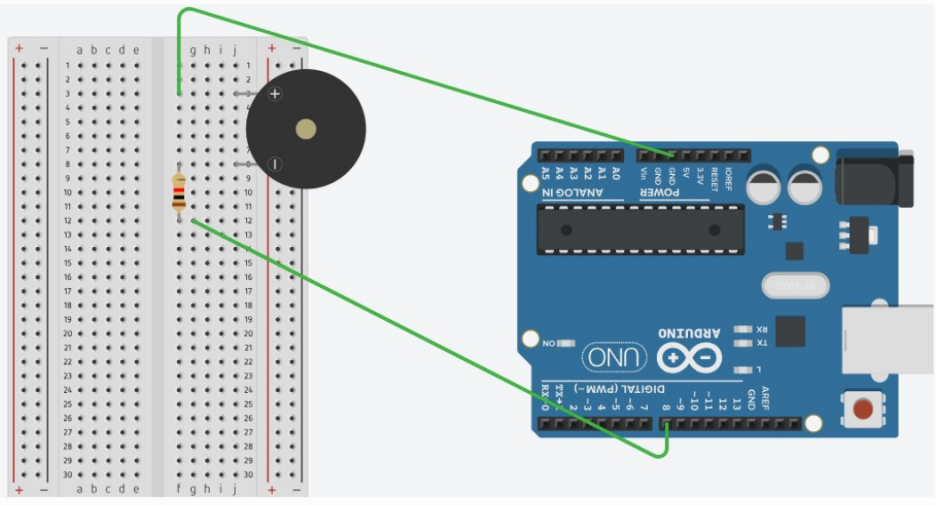
```
#define Led_pin 11
#define potentiometer_pin A1
 void setup(){
    pinMode(Led_pin, OUTPUT);
 }
void loop(){
    int pvalue = analogRead(potentiometer_pin);
    int brightness = pvalue/4;
  analogWrite(Led_pin, brightness);
  }
```



center → A1
Right → 5V
Left → ground

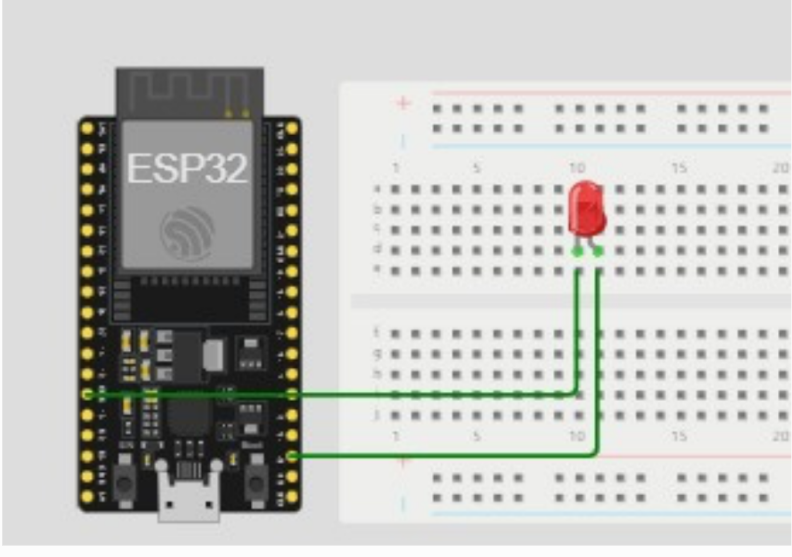
5) Buzzer

```
#define buzzer 8
void setup(){
  pinMode(buzzer, OUTPUT);
}
void loop(){
  tone(buzzer, 1000, 500);
  delay(1000);
}
```



6) 1 Led using Node MCU

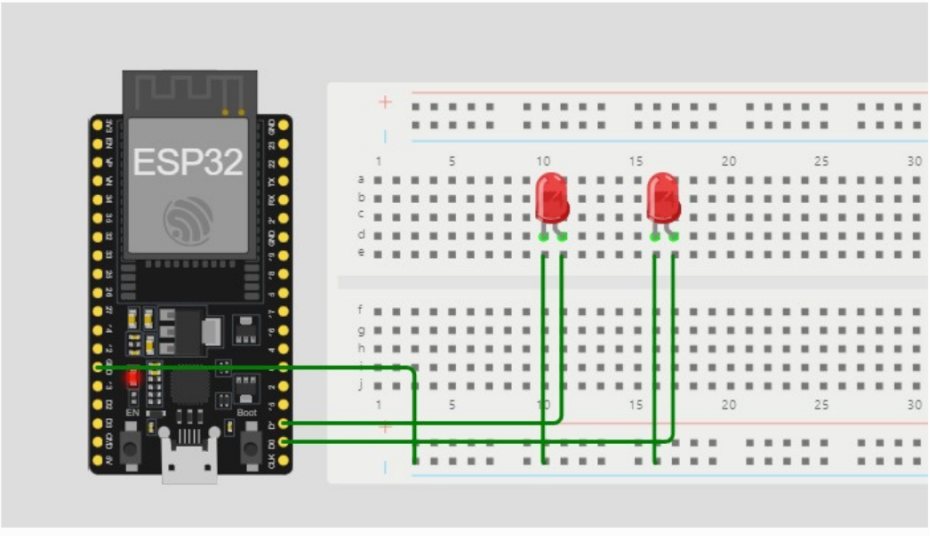
```
const int led = 5;
void setup(){
  pinMode(led, OUTPUT);
}
void loop(){
  digitalWrite(led, High);
  delay(1000);
  digitalWrite(led, Low);
  delay(1000);
}
```



7) Double Led Using Node MCU

```
const int led1 = 5;
const int led2 = 10;

void setup(){
    pinMode(led1, OUTPUT);
    pinMode(led2, OUTPUT);
}
void loop(){
    digitalWrite(led1, HIGH);
    delay(1000);
    digitalWrite(led1, LOW);
    delay(1000);
    digitalWrite(led2, HIGH);
    delay(1000);
    digitalWrite(led2, LOW);
    delay(1000);
}
```



8) LM35 Sensor

```
#define sensorPin A0
void setup(){
  Serial.begin(9600);
}
void loop(){
  int reading = analogRead(sensorPin);
 float voltage = reading * (5.0/1024.0);
 float temperatureC = voltage * 100;
Serial.print("Temperature: ");
Serial.print(temperatureC);
Serial.print(" C | ");

Serial.print("\nC2\nB0");
float temperatureF = (temperatureC * 9.0/5.0) + 32.0;
Serial.print(temperatureF);
Serial.print("\nC2\nB0");
Serial.println(" F");
delay(1000);
}
```