

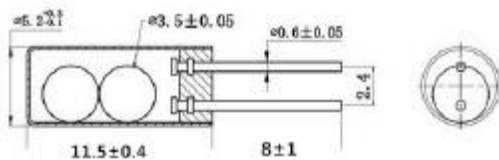
Tilt switch

Overview



This is a very simple switch experiment.






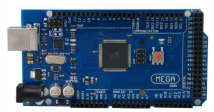
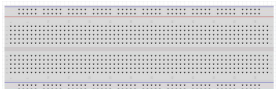

Specification



Pin definition

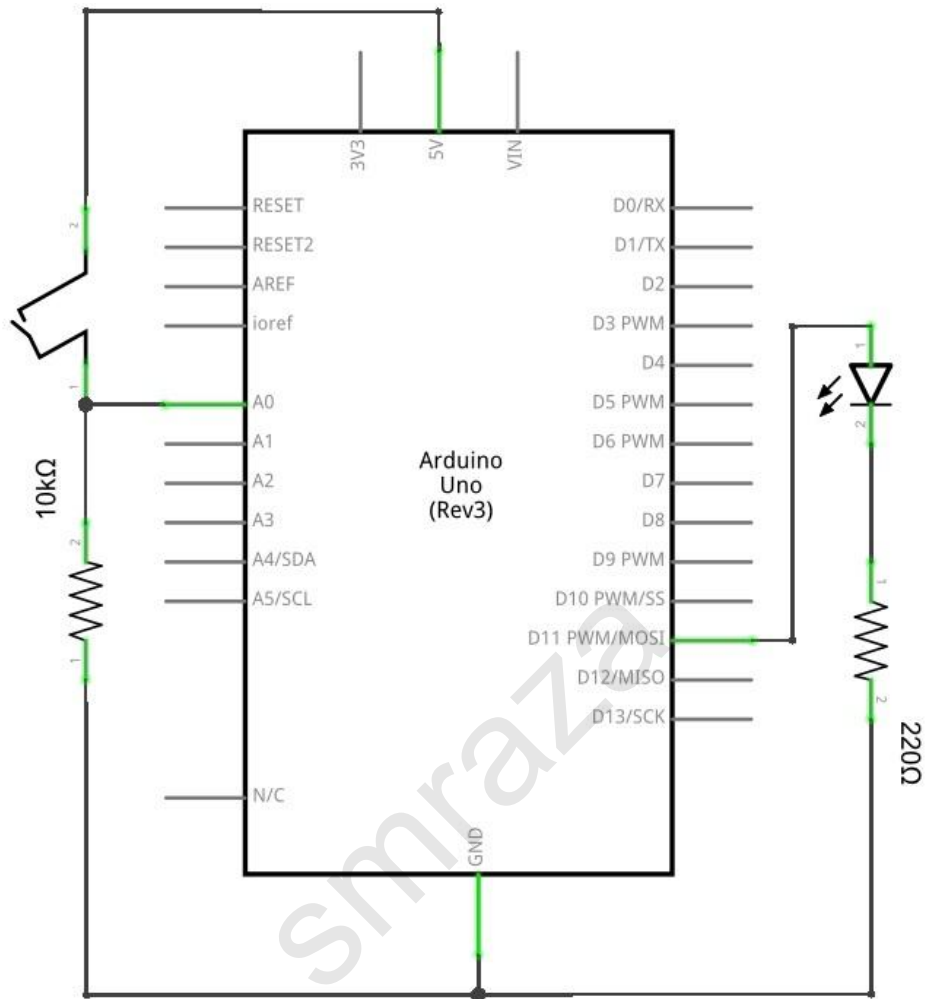
Pin non polarity.

Hardware required

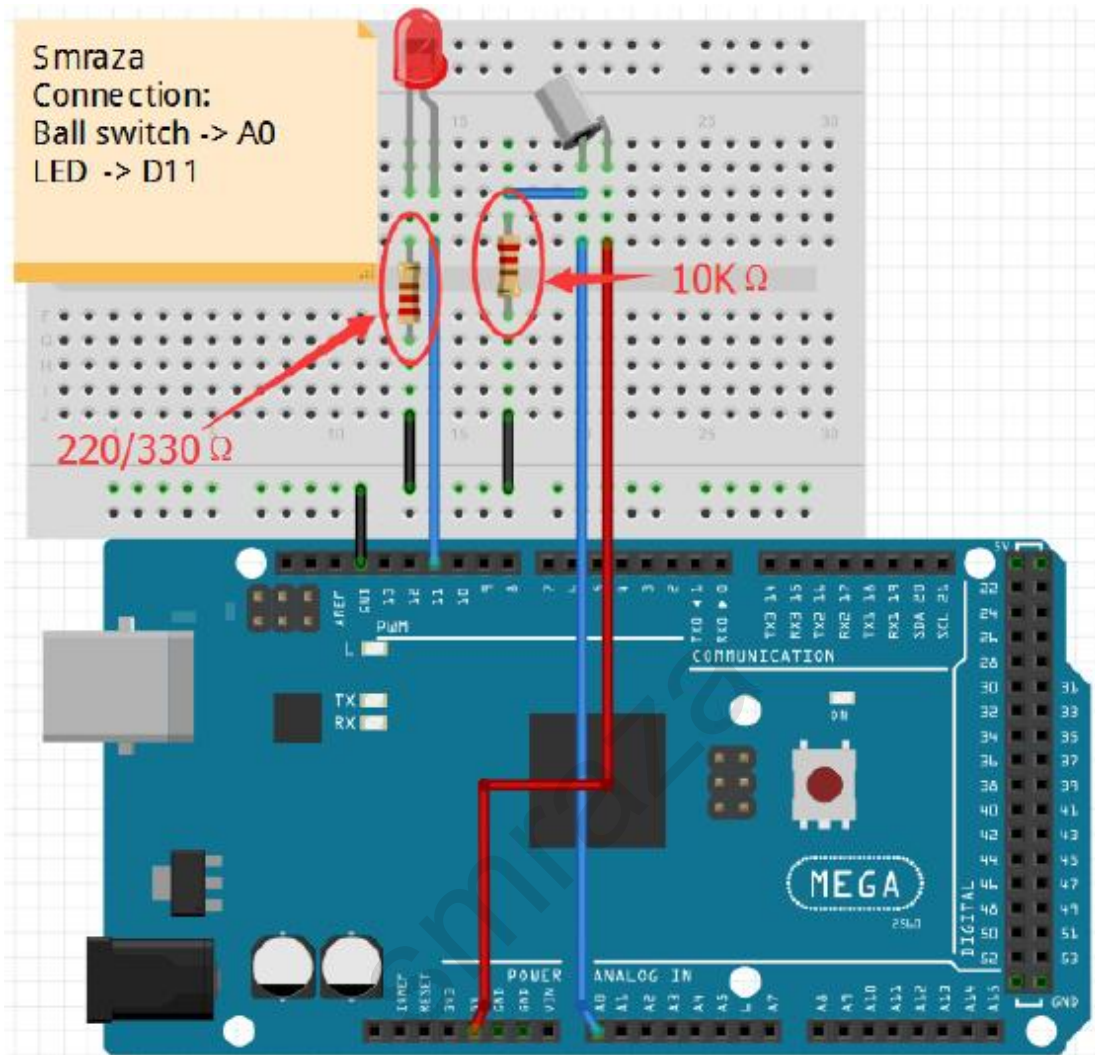
Material diagram	Material name	Number
	Ball switch	1
	LED	1
	220/330Ω resistor	1
	10KΩ resistor	1
	USB Cable	1
	MEGA 2560	1
	Breadboard	1
	Jumper wires	Several

Connection

Schematic



Connection diagram



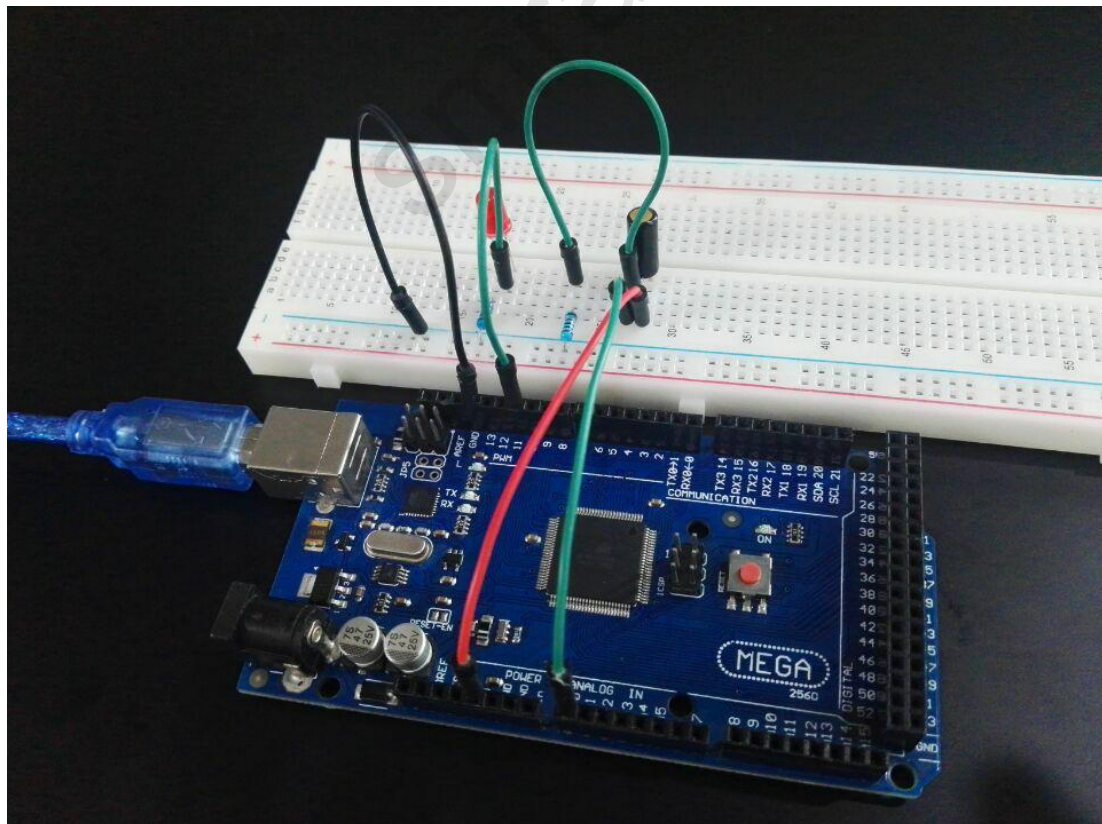
Note : The longest LED of the pin is connected to the digital signal port 11 (D11).
Ball switch's pin is not divided into positive and negative polarity.

Sample code

Note: sample code under the **Sample code** folder

```
int led = 11;
int val;
void setup()
{
    pinMode(led,OUTPUT);
}
void loop()
{
    val=analogRead(0);
    if(val<512)
    {
        digitalWrite(led,HIGH);
    }
    else
        digitalWrite(led,LOW);
}
```

Example picture



Language reference

Tips : click on the following name to jump to the web page.

If you fail to open, use the Adobe reader to open this document.

[If\(\)](#)

[else](#)

Application effect

LED light up when you lean or knock on ball switch.

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