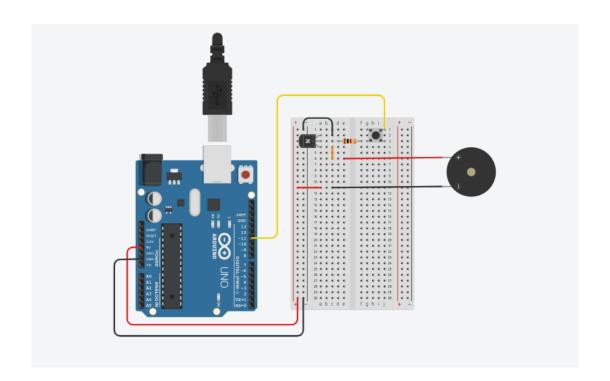
# **BUZZER**

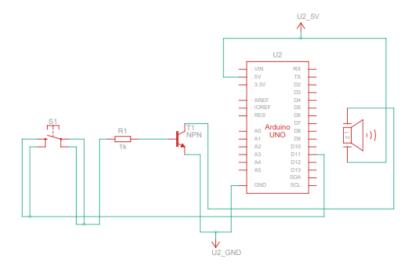
### **Hardware Required:**

Nama	Kuantiti	Komponen
U2	1	Arduino Uno R3
T1	1	NPN Transistor (BJT)
R1	1	1 kΩ Resistor
S1	1	Pushbutton
PIEZO1	1	Piezo

### Circuit:



#### **Schematic:**



#### Code:

```
void playNote(char note, int duration) {
char names[] = {'C', 'D', 'E', 'F', 'G', 'A', 'B',
           'c', 'd', 'e', 'f', 'g', 'a', 'b',
           'x', 'y' };
int tones[] = { 1915, 1700, 1519, 1432, 1275, 1136, 1014,
           956, 834, 765, 593, 468, 346, 224,
           655, 715 };
int SPEE = 5;
// play the tone corresponding to the note name
for (int i = 0; i < 17; i++) {
  if (names[i] == note) {
  int newduration = duration/SPEE;
   playTone(tones[i], newduration);
 }
}
}
void setup() {
pinMode(speakerPin, OUTPUT);
}
void loop() {
for (int i = 0; i < length; i++) {
 if (notes[i] == ' ') {
   delay(beats[i] * tempo); // rest
 } else {
   playNote(notes[i], beats[i] * tempo);
```

**SCAN ME:** 



```
}
// pause between notes
delay(tempo);
}
```

## Tutorial (QR OR LINK):