06 If… Else

# The circuit

Drawing pins


# The code

void **setup**() {

  pinMode(3, INPUT); //set pin 3 the input pin as input

  pinMode(12, OUTPUT); //the speaker on pin 12 is an output

  pinMode(13, OUTPUT); //the LED on pin 13 is an output

}//end of: setup

void **loop**() {

  delay(100); //pause the program for 0.1 seconds

  if(digitalRead(3)!=LOW){ //if pin 3 is not low (0 volts)

    digitalWrite(13,HIGH); //turn on the LED attached to pin 13

    tone(12, 240); //play a tone on pin 12

  }

  else{ //if pin 3 is low (0 volts0

    digitalWrite(13,LOW); //turn off the LED on pin 13

    noTone(12); //stop playing the tone on pin 12

  }

}//end of: loop

# What Next

1. Find out what this comparisons do in the if statement brackets: digitalRead(3)==LOW
2. Shift the green wire to an analog pin and analogRead() its value in and store it as an int variable (for example int analogValue = digitalRead(A0);)
3. Compare the variable in your if statement brackets with these comparisons:
	1. analogValue > 512
	2. analogValue < 512
	3. analogValue >= 512
	4. analogValue <= 512