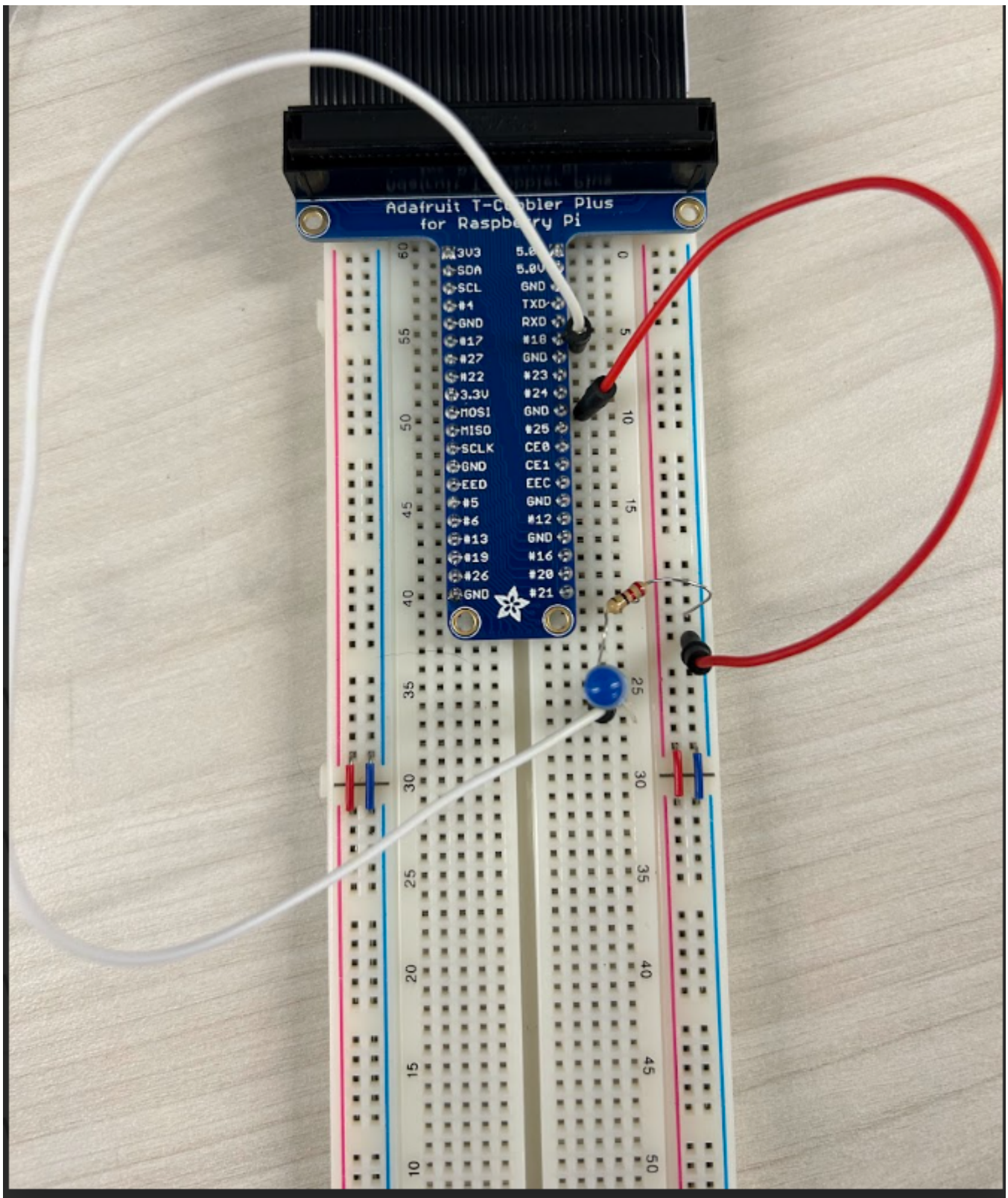


# Morse code lab 12

## Materials

- Raspberry pi
- 2 jumper cables
- Led light or buzzer
- Resistor(if using led)
- Touch sensor
- Breadboard

## Step 1 - The circuit on a breadboard



- First you need to make sure that the cathode and anode are in the proper positive and negative rows.
- The longer leg of the light is the anode, which is positive and the negative is the cathode or the shorter leg.
- Next you need to connect the positive leg of the led with a jumper wire to a GPIO pin of your choice(I used 18).

- Connect the negative wire to ground and use a resistor to connect the wire to the light so it stops too many volts from going into the light and blowing the bulb.

## Step 2- The code

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(18,GPIO.OUT)
print "LED on"
GPIO.output(18,GPIO.HIGH)
time.sleep(1)
print "LED off"
GPIO.output(18,GPIO.LOW)
```

- First you need two libraries, time and GPIO
- The second part is to set up the GPIO pins and tell the computer what pin to use and to turn on
- Then once the GPIO pin has power it prints led on
- After 1 second it prints led off