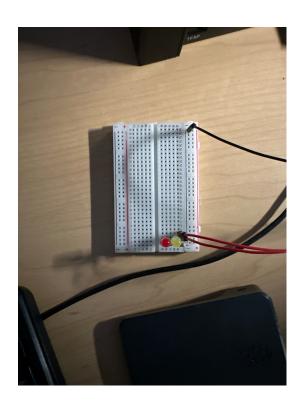
Aaron Perkel CS2210 10/20/23 Lab 05



```
from flask import Flask, render_template
 import RPi.GPIO as GPIO
 import time
 RED_PIN = 18
 YELLOW_PIN = 15
 GPI0.setmode(GPI0.BCM)
 GPIO.setwarnings(False)
 GPIO.setup(RED_PIN, GPIO.OUT)
 GPIO.setup(YELLOW_PIN, GPIO.OUT)
 app = Flask(__name__)
                              (function) methods: Any
 @app.route("/led_on_r", methods=["POST"])
 def led_on_r():
      print("LED on")
      GPIO.output(RED_PIN, GPIO.HIGH)
      return "ok"
 @app.route("/led_off_r", methods=["POST"])
 def led_off_r():
      print("LED off")
      GPIO.output(RED_PIN, GPIO.LOW)
      return "ok"
 @app.route("/led_on_y", methods=["POST"])
 def led_on_y():
      print("LED on")
      GPI0.output(YELLOW_PIN, GPI0.HIGH)
      return "ok"
@app.route("/led_off_y", methods=["POST"])
def led_off_y():
   GPIO.output(YELLOW_PIN, GPIO.LOW)
return "ok"
@app.route("/", methods=["GET"])
def home():
   return render_template("button.html", title="Button", name="Aaron Perkel")
```

app.py

```
Users > aaronperkel > Desktop > ↔ button.html > ..
      <!DOCTYPE html>
      <html lang="en">
      <head>
          <meta <pre>charset="UTF-8">
          <link rel="shortcut icon" href="{{ url_for('static', filename='favicon.ico') }}">
          <title>{{title}}</title>
      </head>
      <body>
          <h1>{{name}}'s LED Control</h1>
          <button id="led_button">Red LED On</button>
          <button id="led_button2">Yellow LED On</button>
          <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
          <script src="/static/button.js"></script>
      </body>
      </html>
```

```
var button = $("#led_button");
  2 v button.click(function() {
         console.log(button.text());
         if (button.text() === "Red LED On") {
             $.ajax({
                 url: "/led_on_r",
                 type: "post",
                 success: function(response) {
                     console.log(response);
                     button.text("Red LED Off");
             $.ajax({
                 url: "/led_off_r",
                 type: "post",
                 success: function() {
                     button.text("Red LED On");
    var button2 = $("#led_button2");
    button2.click(function() {
         console.log(button2.text());
         if (button2.text() === "Yellow LED On") {
             $.ajax({
                 url:"/led_on_y",
                 type: "post",
                 success: function(response) {
                     console.log(response);
                     button2.text("Yellow LED Off");
        } else {
             $.ajax({
                 url: "/led_off_y",
                 type: "post",
                 success: function() {
                     button2.text("Yellow LED On");
             });
    });
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```

button.js