The following are questions I asked ChatGPT for lab 6 and it's responses.

```
var map = L.map('map').setView([51.0447, -114.0719], 10);

L.tileLayer('https://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png', {
    attribution: '&copy; OpenStreetMap contributors'
}).addTo(map);

var drawnPolyline = null;

document.getElementById('drawPolyline').addEventListener('click', function() {
    if (drawnPolyline) {
        map.removeLayer(drawnPolyline);
    }
    var drawControl = new L.Control.Draw({
        draw: {
            polyline: true,
            polygon: false,
            circle: false,
            rectangle: false,
            marker: false
        }
    });
    map.addControl(drawControl);

    map.on('draw:created', function (e) {
        var type = e.layerType,
            layer = e.layer;

        if (type === 'polyline') {
            if (drawnPolyline) {
                map.removeLayer(drawnPolyline);
            }
            drawnPolyline = layer;
            map.addLayer(layer);
        }
    });
});

document.getElementById('simplifyPolyline').addEventListener('click', function() {
    if (drawnPolyline) {
        var simplified = turf.simplify(drawnPolyline.toGeoJSON(), { tolerance: 0.01, highQuality: false
});
        map.removeLayer(drawnPolyline);
        drawnPolyline = L.geoJSON(simplified, {
            style: {
                color: 'red'
            }
```

```
    }).addTo(map);
  }
});

document.getElementById('removePolyline').addEventListener('click', function() {
  if (drawnPolyline) {
    map.removeLayer(drawnPolyline);
    drawnPolyline = null;
  }
});
```

Why isn't this working?

ChatGPT

The code you provided looks correct, but it seems that the Leaflet.draw plugin is not included in your HTML file.

To use the Leaflet.draw plugin, you need to include its CSS and JavaScript files. Here's how you can include them:

html

Copy code

```
        html




        rel "stylesheet" href "https://unpkg.com/leaflet/dist/leaflet.css"
        rel "stylesheet"
href "https://cdnjs.cloudflare.com/ajax/libs/leaflet.draw/1.0.4/leaflet.draw.css"


 #map
 width   800px
 height  600px

 .leaflet-draw-toolbar
 display




      id "map"
        id "drawPolyline"
        id "simplifyPolyline"
        id "removePolyline"

        src "https://unpkg.com/leaflet/dist/leaflet.js"
```

```
src "https://cdnjs.cloudflare.com/ajax/libs/leaflet.draw/1.0.4/leaflet.draw.js"


src "https://cdnjs.cloudflare.com/ajax/libs/@turf/turf/6.3.0/turf.min.js"
        src "main.js"
```

Make sure you have the correct paths to the Leaflet.draw JavaScript and CSS files.

If you include these files and the code you provided in `main.js`, it should work as expected. If you encounter any further issues, please provide more details about the problem you're experiencing.