

OUTPUT SCREENSHOTS:

A dropdown menu from which users can select the city:

The screenshot shows a web application window titled 'python'. It features a 'Use ComboBox' checkbox which is checked. Below it is a dropdown menu with the text 'tij' and a list of cities: Tiruchirappalli, Tirunalveli, Tiruppur, Tiruvallur, Tiruvannamalai, and Tiruvarur. At the bottom, there are five radio buttons labeled 'Point 1' through 'Point 5', and a 'Select Point' button.

Sample1:

City – Coimbatore

Location – Amrita Vishwa Vidyapeetham

The screenshot shows a web application window titled 'python'. It features a 'Use ComboBox' checkbox which is checked. Below it is a dropdown menu with the text 'Coimbatore' and a list of locations: Amrita vishwa vidyapeetham ettimadai. A 'Show on Map' button is visible. The map shows a location in Coimbatore with several blue location markers. Below the map, there is a list of points with their coordinates and distances from the selected location. The 'Select Point' button is at the bottom.

Point	Distance
Point [10.905217686164175, 76.901354665911] - Distance: 0.25 km	0.25 km
Point [10.898303379619897, 76.9025698872679] - Distance: 0.67 km	0.67 km
Point [10.901347164617176, 76.9058172892269] - Distance: 0.72 km	0.72 km
Point [10.90304776394901, 76.89277294004754] - Distance: 0.76 km	0.76 km
Point [10.911631855548483, 76.90004357374171] - Distance: 0.88 km	0.88 km

Sample 2:

City – Coimbatore

Location – Coimbatore Airport

The screenshot shows a web application window titled 'python'. It features a 'Use ComboBox' checkbox which is unchecked. Below it is a dropdown menu with the text 'Coimbatore' and a list of locations: coimbatore international airport. A 'Show on Map' button is visible. The map shows a location in Coimbatore with several blue location markers. Below the map, there is a list of points with their coordinates and distances from the selected location. The 'Select Point' button is at the bottom.

Point	Distance
Point [11.035521559785394, 77.04083777903367] - Distance: 0.35 km	0.35 km
Point [11.027541685841035, 77.03636336582599] - Distance: 0.91 km	0.91 km
Point [11.033730567136253, 77.03433997610297] - Distance: 0.92 km	0.92 km
Point [11.025640102603647, 77.03745430163805] - Distance: 0.99 km	0.99 km
Point [11.024786486882931, 77.03795014684258] - Distance: 1.04 km	1.04 km

Selected Point: [11.027541685841035, 77.03636336582599] - Distance: 0.91 km

Note:

Red marker – Selected city

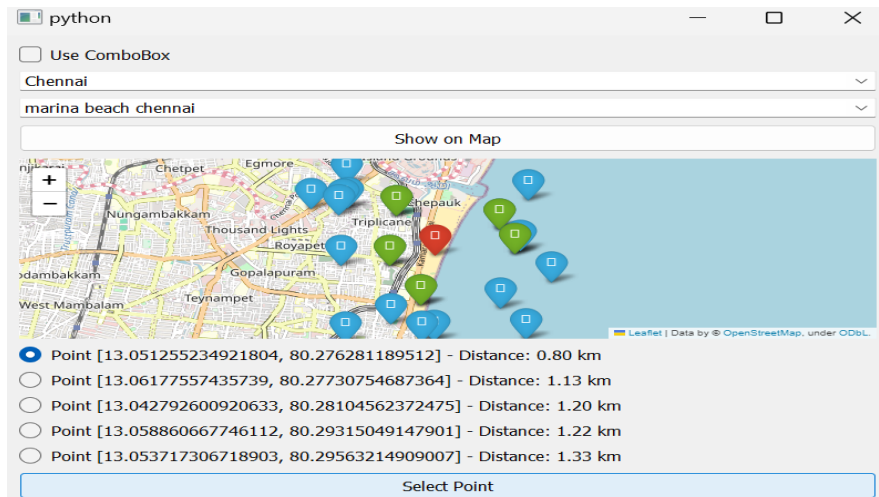
Blue points - random neighbours near the selected city

Green markers – top 5 nearest neighbours.

Sample 3:

City – Chennai

Location – Marina Beach

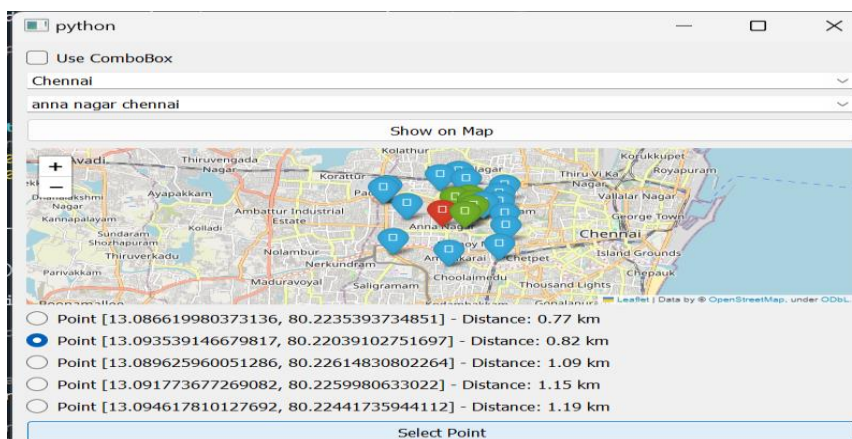


Selected Point: [13.051255234921804, 80.276281189512] - Distance: 0.80 km

Sample 4:

City – Chennai

Location – Anna Nagar

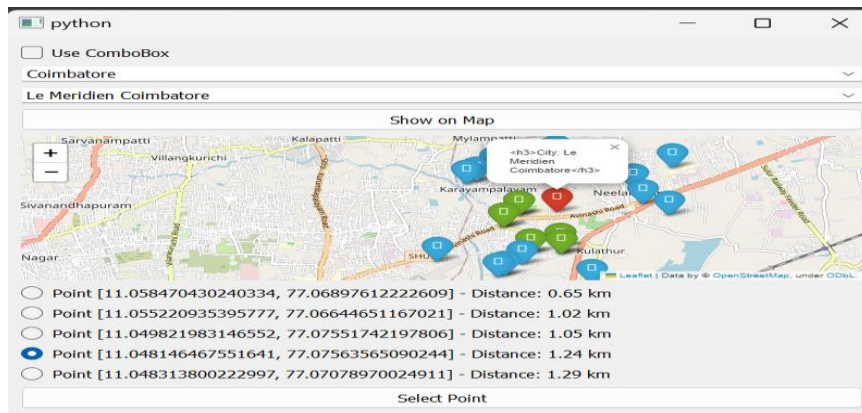


Selected Point: [13.093539146679817, 80.22039102751697] - Distance: 0.82 km

Sample 5:

City – Coimbatore

Location – Le Meridien



Selected Point: [11.048146467551641, 77.07563565090244] - Distance: 1.24

After selecting 5 places, it throws a discount.

[Indicating that users has availed services for 5 times]

Discount 1: You have selected points 5 times.

Console output:

[Refreshed points will be displayed every 5 seconds, as in real time, neighbours like cars will be in motion]

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<h3>5 Nearest Points:</h3><ul><li><input type="radio" name="point" value="[10.90409766966694, 76.8961617141764]"> Point [10.90409766966694, 76.8961617141764] - Distance: 0.39 km</li><li><input type="radio" name="point" value="[10.900097629444927, 76.90080214299756]"> Point [10.900097629444927, 76.90080214299756] - Distance: 0.41 km</li><li><input type="radio" name="point" value="[10.898606954281247, 76.90127514443012]"> Point [10.898606954281247, 76.90127514443012] - Distance: 0.58 km</li><li><input type="radio" name="point" value="[10.896159883007243, 76.90812855955308]"> Point [10.896159883007243, 76.90812855955308] - Distance: 1.24 km</li><li><input type="radio" name="point" value="[10.904889556333455, 76.91263398417341]"> Point [10.904889556333455, 76.91263398417341] - Distance: 1.43 km</li></ul>
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