PUBLIC TRANSPORTOPTIMAIZATION

HTML code:

```
<!DOCTYPE html>
<html>
<head>
<title>Public Transport Optimization Project</title>
<link rel="stylesheet" href="style.css">
<script src="script.js"></script>
</head>
<body>
<h1>Public Transport Optimization Project</h1>
<div id="map"></div>
<div id="results">
<h2>Results</h2>
</div>
```

```
</body>
</html>
CSS code:
body {
 font-family: sans-serif;
}
#map {
 width: 100%;
 height: 400px;
}
#results {
 margin-top: 20px;
}
ul {
 list-style-type: none;
```

```
padding: 0;
}
li {
 margin-bottom: 10px;
}
JAVASCRIPT code:
var map = new
google.maps.Map(document.getElementById('map'), {
 zoom: 13,
 center: {lat: 40.7128, lng: -74.0059}
});
var directionsService = new google.maps.DirectionsService();
var directionsRenderer = new
google.maps.DirectionsRenderer({
 map: map
});
function calculateRoute(origin, destination) {
 var request = {
```

```
origin: origin,
  destination: destination,
  travelMode: google.maps.TravelMode.TRANSIT
 };
 directionsService.route(request, function(response, status) {
  if (status === google.maps.DirectionsStatus.OK) {
   directionsRenderer.setDirections(response);
   updateResultsList(response);
  } else {
  }
 });
function updateResultsList(response) {
 var routesList = document.getElementById('routes');
```

```
routesList.innerHTML = ";
 for (var i = 0; i < response.routes.length; i++) {
  var route = response.routes[i];
  var listItem = document.createElement('li');
  listItem.innerHTML = '<b>Route ' + (i + 1) + ':</b> ' +
route.summary;
  routesList.appendChild(listItem);
map.addListener('click', function(event) {
 var clickedLocation = event.latLng;
```

```
calculateRoute(new google.maps.LatLng(map.getCenter().lat(),
map.getCenter().lng()), clickedLocation);
});
```