8) Create a HTML page with Google Map?

Creating an HTML page with an embedded Google Map involves using the Google Maps JavaScript API. Below is a simple example of an HTML page that embeds a Google Map centered on a specific location.

First, you need to obtain a Google Maps API key by following these steps:

- 1. Go to the [Google Cloud Console](https://console.cloud.google.com/).
- 2. Create a new project or select an existing project.
- 3. Navigate to the "APIs & Services" section.
- 4. Enable the "Maps JavaScript API".
- 5. Create credentials to get your API key.

Once you have your API key, you can use it in your HTML file as shown below:

```
padding: 0;
   }
  </style>
</head>
<body>
 <div id="map"></div>
  <script>
   // Initialize and add the map
   function initMap() {
     // The location to center the map (e.g., New York City)
     const location = { lat: 40.7128, lng: -74.0060 };
     // The map, centered at the specified location
     const map = new google.maps.Map(document.getElementById("map"), {
       zoom: 10,
       center: location,
     });
     // The marker, positioned at the specified location
     const marker = new google.maps.Marker({
       position: location,
       map: map,
     });
   }
  </script>
  <!-- Load the Google Maps JavaScript API with your API key -->
  <script async defer
src="https://maps.googleapis.com/maps/api/js?key=YOUR_API_KEY&callback=initMap
"></script>
</body>
</html>
```

. . .

Replace `YOUR_API_KEY` with the actual API key you obtained from the Google Cloud Console.

Explanation:

1. **HTML Structure**:

- The `head` section contains the page title and a `style` block to set the height of the map container.
- The `body` section includes a `div` element with an ID of `map` which will contain the map.

2. **CSS**:

- The `#map` element is styled to take up 100% of the height of its container.
- Both `html` and `body` elements are set to 100% height to ensure the map fills the viewport.

3. **JavaScript**:

- A function `initMap` initializes the map. It creates a map centered at a specific location (New York City in this example) and adds a marker at that location.
- The Google Maps JavaScript API script is loaded asynchronously with the callback set to `initMap` to ensure the map initializes correctly once the API is loaded.

Save this code in an HTML file and open it in a web browser to see the map.