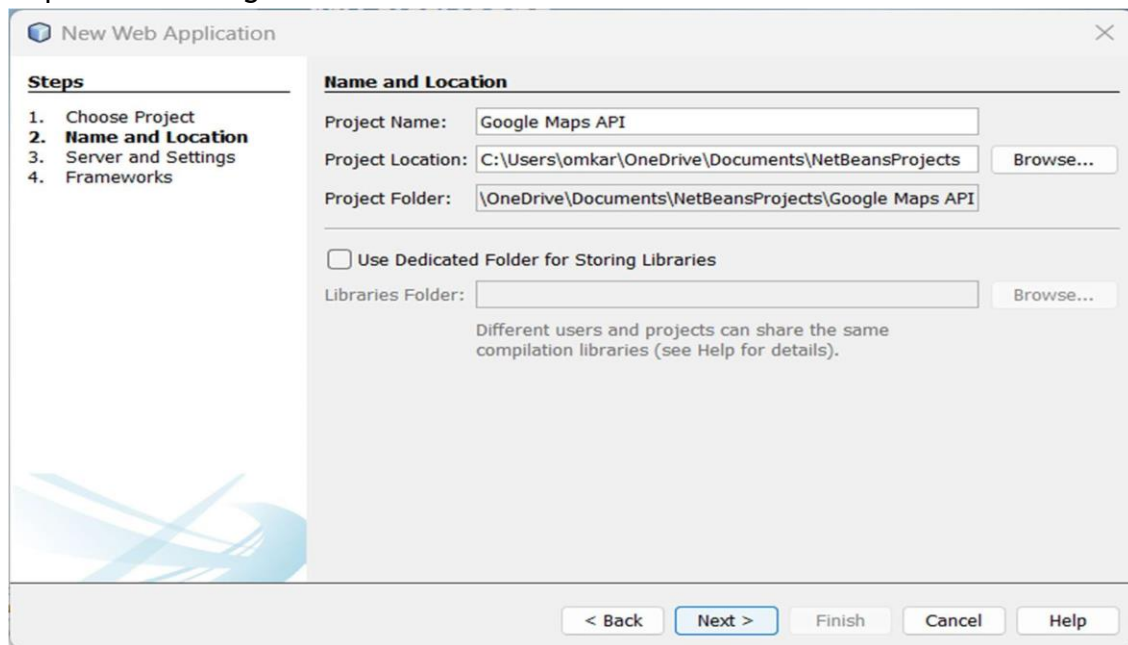**Roll no:** 18
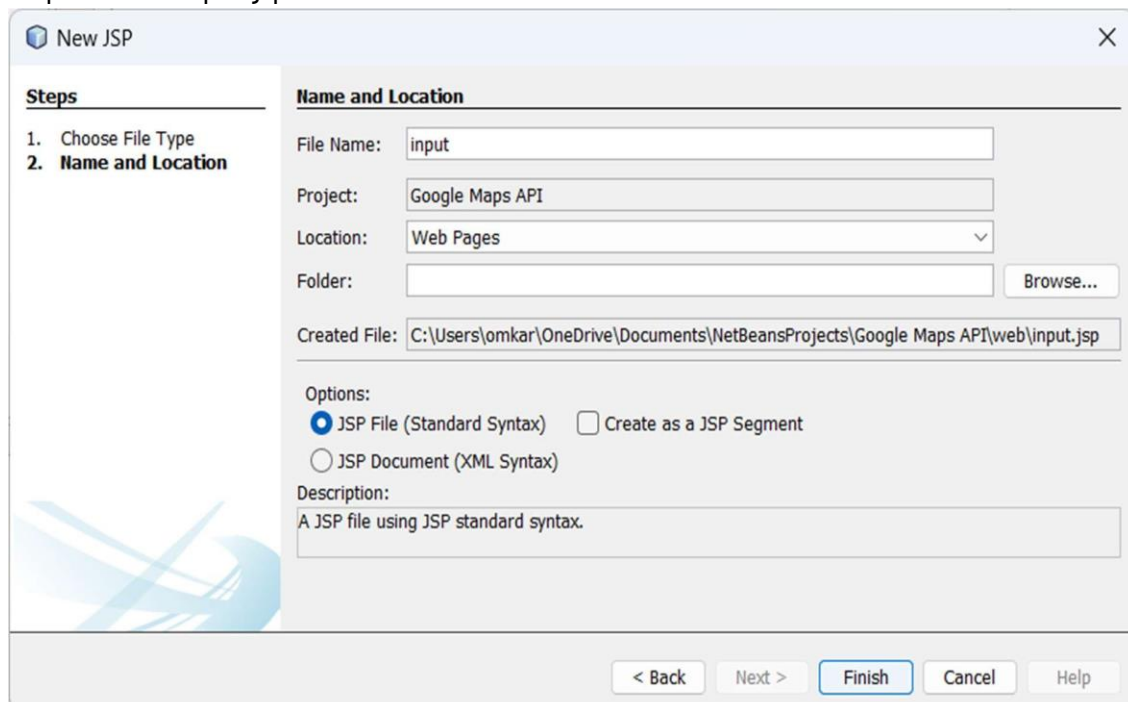
Practical 4 - Create a Simple RESTful Web service:

Aim: Develop application to consume Google's search / Google's Map RESTful Web service.

Steps:

Step 1: First of all, we need to create a Java Web Application with any name, let it be Google Maps API here using NetBeans IDE.

Step 2: Create input.jsp.

Step 3: The code inside the input.jsp will be:

Input.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
        <form action="index.jsp">
            <pre>
                Enter latitude:<input type="text" name="t1" />
                Enter longitude:<input type="text" name="t2" />
                <input type="submit" value="Show" />
            </pre>
        </form>
    </body>
</html>
```

Step 4: Before running the application, we need the Google API key. The steps are shown here:
- Visit Google APIs Console (https://console.developers.google.com, you have to login with your Google account).

a) Create a new API Project.

b) Enable the Google Maps API V3.
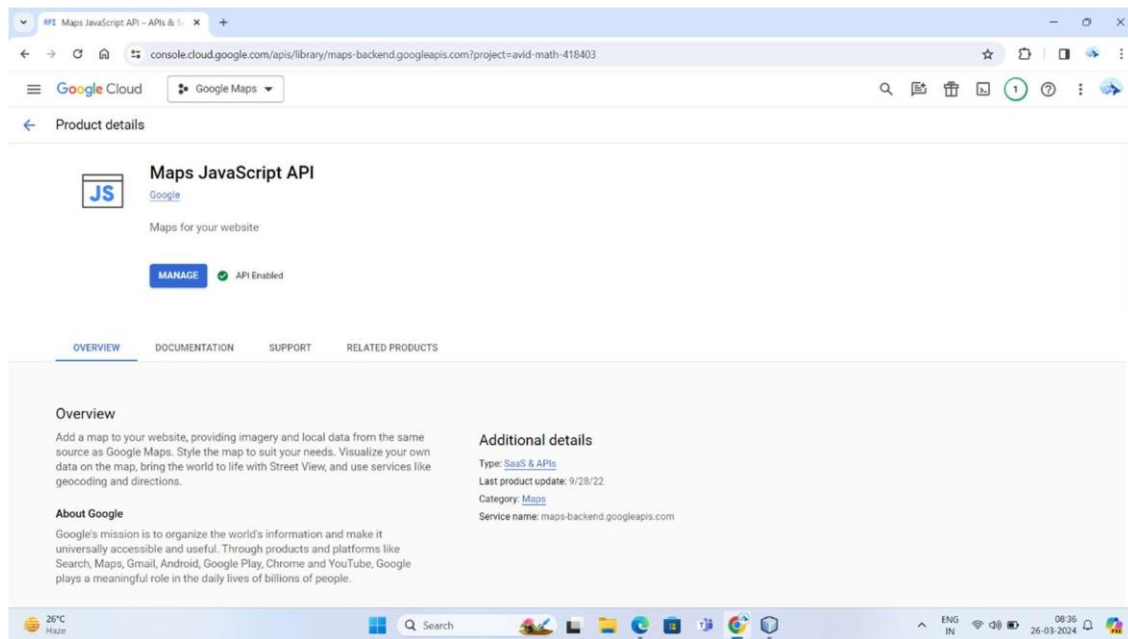
Step 5: Now, to create an API key, go to Google Cloud > Enabled API and Services > Credentials > Create Credentials > Create API Key > Copy the API key.
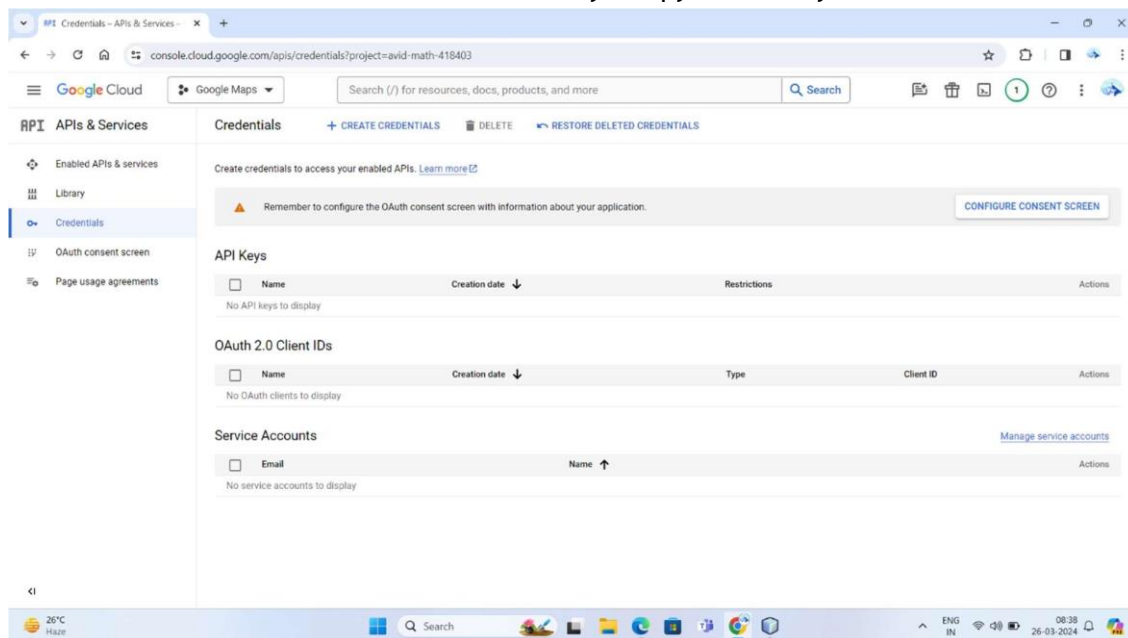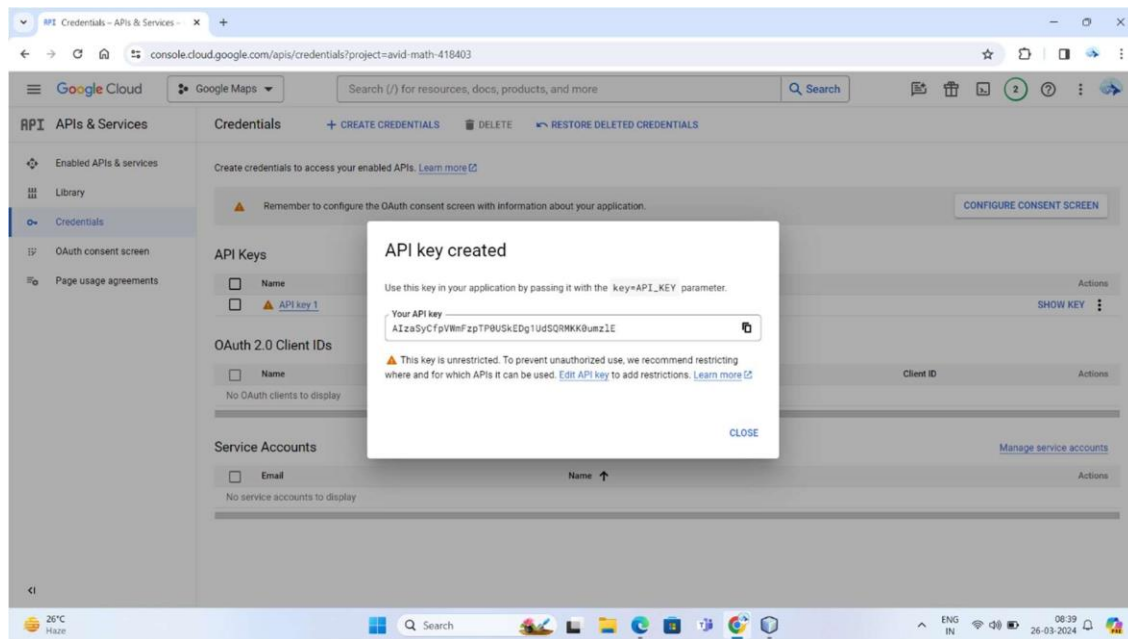
Step 6: Create another file index.jsp.
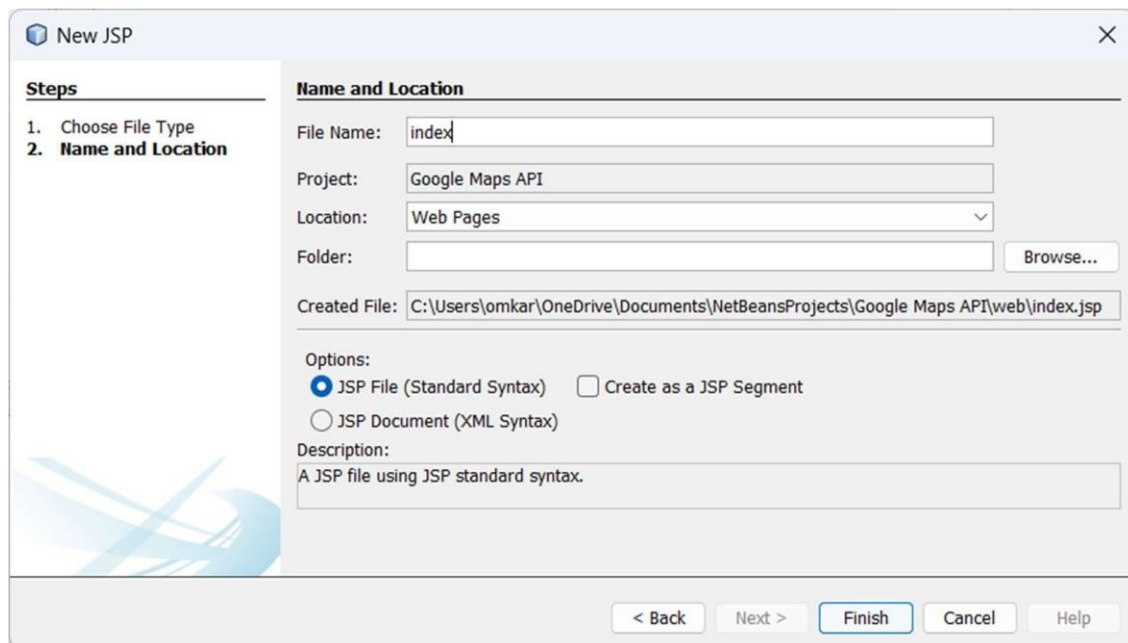
Index.jsp

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

    <head>

```html
        <style>
        #map
        {
        height: 400px;
        width: 100%;
        }
        </style>
</head>
<body>
        <%
                double lati=Double.parseDouble(request.getParameter("t1"));
                double longi=Double.parseDouble(request.getParameter("t2"));
        %>
        <h3> Google Maps </h3>
        <div id="map"></div>
        <script lang="javascript">
        function initMap()
        {
                var info={lat: <%=lati%>, lng: <%=longi%>};
                var map = new google.maps.Map(document.getElementById('map'),
        {
        zoom: 4, center: info
        });
                var marker = new google.maps.Marker
        ({
        position: info, map: map
        });
        }
        </script>
```

```
        <script async defer

            src="https://maps.googleapis.com/maps/api/js?key=AIzaSyCfpVWmF
        zpTP0USkEDg1UdSQRMKK0umzlE&callback=initMap">

        </script>

    </body>

</html>
```

Step 7: Run "input.jsp" file.

Outputs: