

Topic 9 Graded Lab (10 Marks

158.256

The following code is used to display a static map (*it is the last example from your lecture slide*).

```
<input type='button' value="Show map centered on ME"
onclick="getLocation()">

<p id='mapImg'> PUT MAP HERE</p>

<script>

function getLocation() {

    if (navigator.geolocation)

        navigator.geolocation.watchPosition(showPosition);

    else

        x.innerHTML = "Geolocation is not supported";

}

function showPosition(position) {

    let latlon = position.coords.latitude + "," +
position.coords.longitude;

    let img_url =
"http://maps.googleapis.com/maps/api/staticmap?center="+latlon;

    img_url +=      "&zoom=14&size=800x600&sensor=false";

    mapID = document.getElementById("mapImg")

    mapID.innerHTML = "<img src='"+img_url+"'>";

}

</script>
```

Tasks –

1. Convert the above code into a function such that the function takes three input parameters – (i) lat – latitude (ii) long – longitude and (iii) element_ID

The function will look like this –

```
displayStaticMap(lat, long, element_ID)
```

2. After completing the above step, create a web page that –
 - a. has two text input boxes for entering latitude and longitude
 - b. a 'Show Map' button

When the button is clicked, it displays the map centred at the latitude and longitude entered by the user.

| Marking Schedule | |
|------------------|-------|
| Component | Marks |
| Task 1 | 5 |
| Task 2 | 5 |