

## USIT 6P4 Principles of Geographic Information Systems Practical #5

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Class	TY BSC IT	Division	C
Subject/Course	USIT 6P4 Principles of Geographic Information Systems		
Topic	Working with Projections and WMS Data		

### Explain about Web Map Service (WMS).

A Web Map Service (WMS) defines an interface that allows a client to get maps of geospatial data and gain detailed information on specific features shown on the map. A "map" is defined here as a visual representation of geospatial data, not the geospatial data itself.

A Web Map Service can:

1. Produce a map – as a picture, as a series of graphical elements, or as a packaged set of geographic feature data;
2. Answer basic queries about the content of a map; and
3. Tell a client what maps it can produce and which of those can be queried further.

### Problem Statement 2

**Consider a map of your own residential area and make a vector map with different layers:**

Consider your residential area or download a map from gitbub and recreate as per the given specifications:

1. Add 2 Area (id, name)
2. Add 2 Garden (id, name)
3. Add 1 Highways (id, name)
4. Add 1 railway track (id, name, line)
5. Add 3 Railway stations( id, name, line)
6. Add a new column Garden\_area and calculate the area of each garden
7. Show the largest garden.
8. Show all the railway tracks that intersect with Highways.
9. Format the above layers using different styling options.





