Ch 6. Map Reading - Online Class 16 (14.10.20)

1. **Online maps**

    OpenStreetmap, Wikimapia and Google maps

2. **Web address of Online maps**
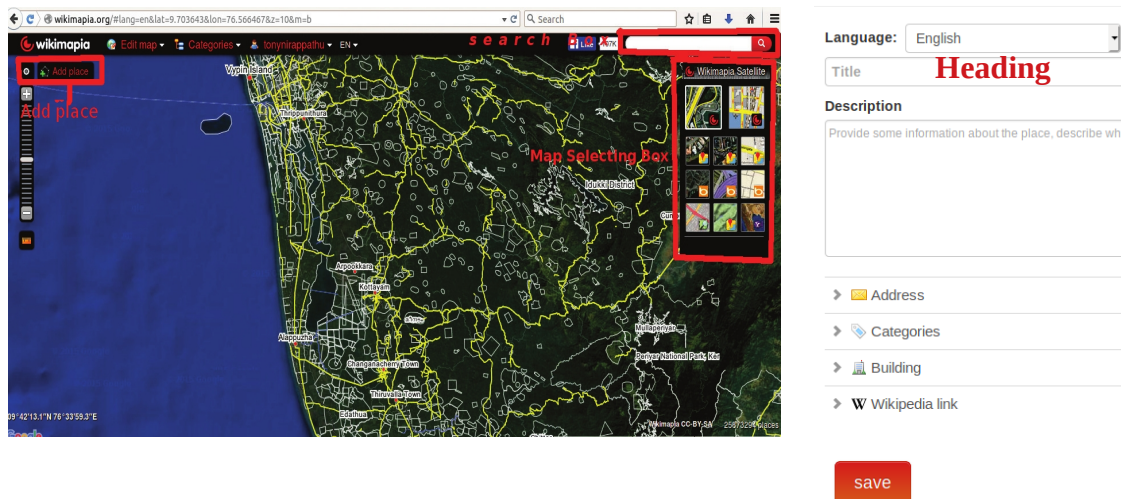
    Wikimapia - www.wikimapia.org

    OpenStreetmap - www.openstreetmap.org

    Google maps - www.map.google.com

3. **How to mark your house in Wikimapia**

    ◆ Open Wikimapia.

    ◆ Click on satellite view from the wikimapia map at the top right

    ◆ Enlarge the map as far as possible to locate your house clearly.

    ◆ When you have located your house, right click on it and find the latitude and longitude..

    ◆ click on the Add place button.

    ◆ Draw the boundary of the house by clicking the mouse.

    ◆ A window will appear when you click on the Save button. Enter the data and save.

4. **Collaborative maps**

    Maps prepared on the basis of the informations obtained from users

    Eg : OpenStreet Map, Wikimapia and Google maps

5. **Geographical Information System (GIS)**

The surface features of the earth and locational information are collected in a server in the form of maps and data. GIS is a technique developed to make necessary changes to this database, analyse them, classify them and so on.

6. **GIS softwares**

Geographical Information System is a software that can record land surface information and positional information in different layers

Important GIS softwares- Quantum GIS, GRASS, Arc GIS

Free softwares - Quantum GIS, GRASS

7. **Positional information**

Positional informations are the surface features of a fixed latitude and longitude

8. **Quantum GIS software**

A free software came out in 2009

Its aims

- To make maps
- To display maps, modify maps, create new ones
- To analyse the data available in the geographic domain
- To display the analysis results in the form of tables or maps as required
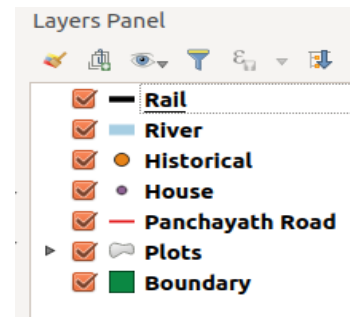
9. **How to open QGIS**

Application ⟶ Education ⟶ QGIS Desktop

10. **How to make the comprehensive map of a panchayath**

◆ First add an outline map of the Panchayath to the application

◆ It should be subjected to geo-referencing (To correct Latitude and longitude information)

◆ Each fact is included as layers in the form of object
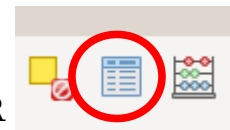
11. How to include the map

- Open QGIS
- Project ⟶ Open ⟶ Qgis projects Panchayath projects ⟶ Open ⟶ Panchayat.qgs
- You can observe the changes by clicking on the check box next to each layer in the left layer panel in the included panchayath map.

12. How to see the attributes of a layer

Select the layer.

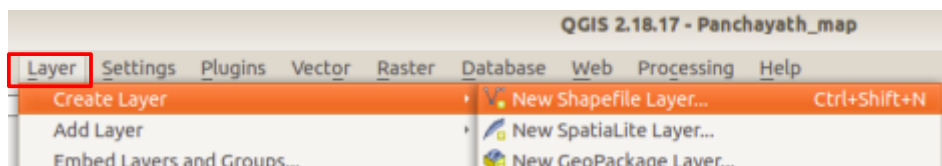Rt click ⟶ open attribute table   OR

13. Attributes

Data of a Positional information

Eg : River – a positional information, Its attributes- Drying, non drying

14. To include new layer

► From the menu open   layer ⟶ create layer ⟶   new shape file layer

► In the window that opens, select Layer Type ⟶

Different layer types

House, Well - Point
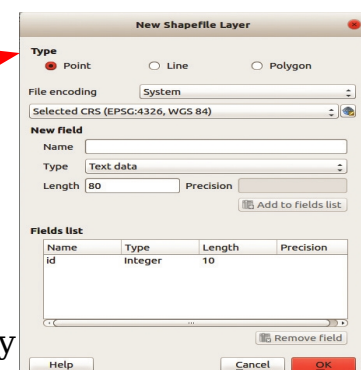
River, Road - Line

Pond, Lakes - Polygon

► In the place New field, add the attributes one by one. Eg: owner, depth, expense, etc
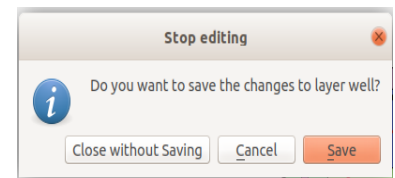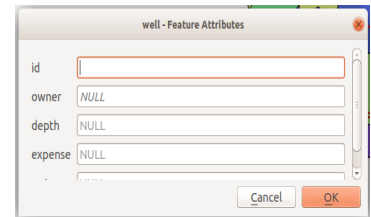
► Define the type of each attribute (text, number, etc.)
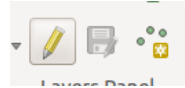
► Further add each Field by clicking the button Add to fields list.

► Click OK, give suitable name in the Name of the opened window and then Save

15. **To include the details (House, well, etc) to the newly created layer**

 ◆ Select the new layer that appears in the layer box

 ◆ Click the Toggle editing

 ◆ Press Add feature, then click at the location where the details are to be marked

 ◆ Include the attributes (Eg: owner, depth, expense , etc) in the opened table and click OK

 ◆ Click Toggle Editing button once again to disable editing. Click Save on the Stop Editing windows that appears.

16. **To modify the layer**

 ◆ Right click on the layer then click Properties

 ◆ Click Style of Properties window and make necessary changes

Touch or click here to watch this class

Scan the QR code