VSIT

# USIT 6P4 Principles of Geographic Information Systems Practical #11

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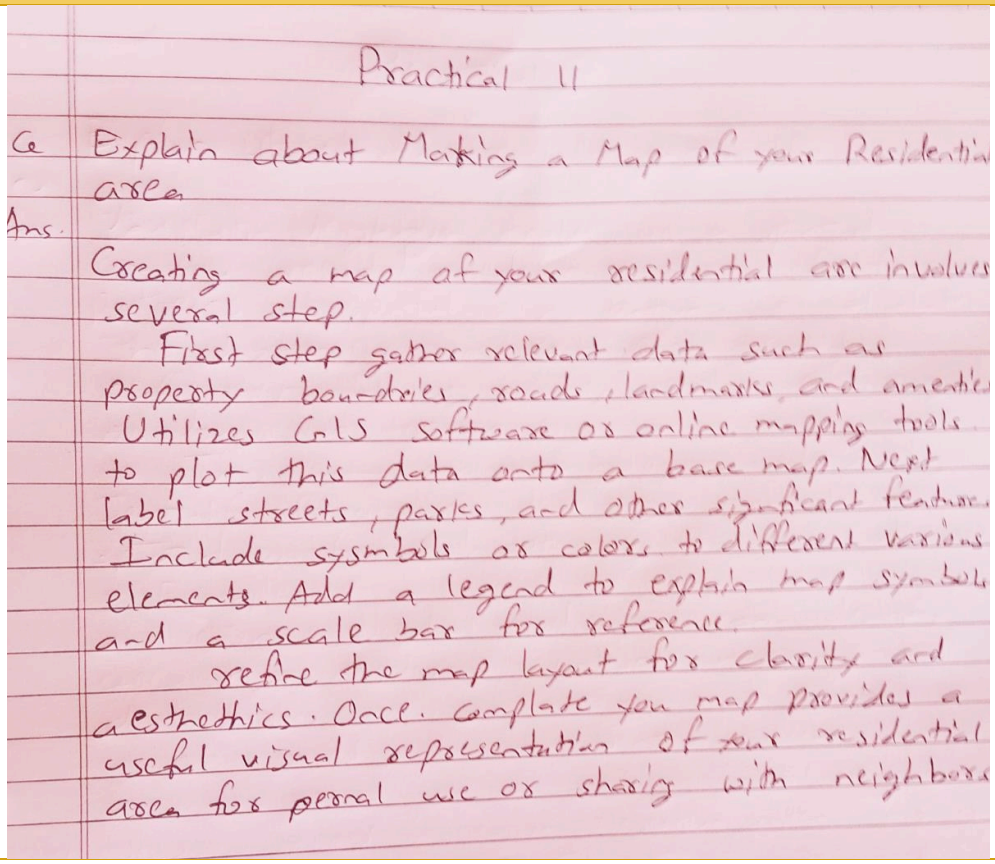
|---|---|---|---|
| **Name** | Sanjeev Gupta | **Roll Number** | 21302B0023 |
| **Class** | TY BSC IT | **Division** | C |
| **Subject/Course** | USIT 6P4 Principles of Geographic Information Systems | | |
| **Topic** | Making a Map of your Residential Area and calculating Basic Statistics | | |

## Explain about Making a Map of your Residential Area.



Practical 11

Q Explain about Making a Map of your Residentia area

Ans.

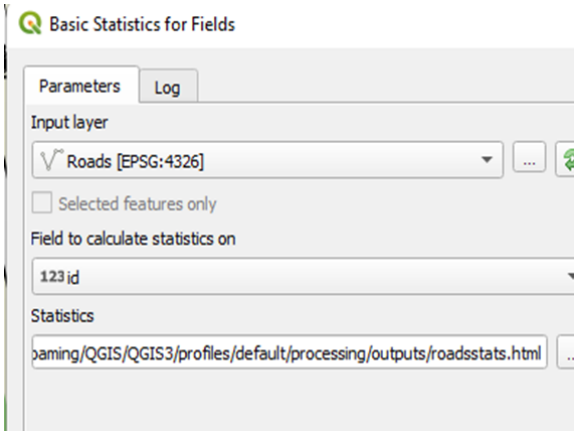
Creating a map of your residential are involves several step.

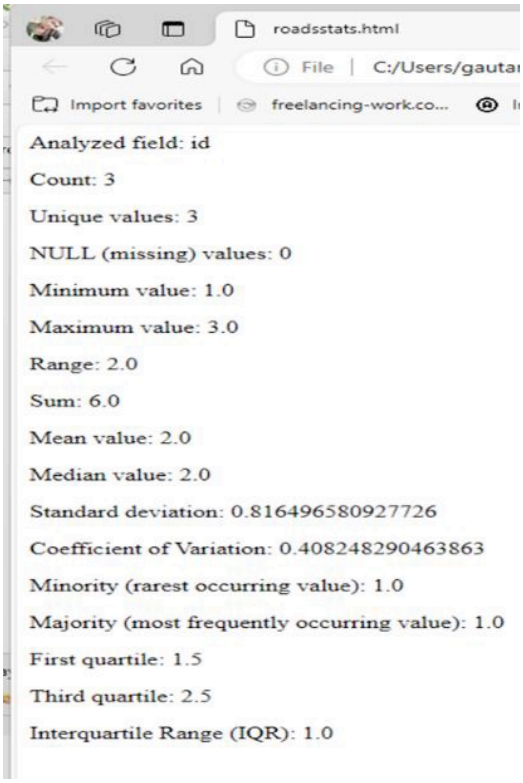
First step gather relevant data such as property boundries, roads, landmarks, and amenitie Utilizes GIS software or online mapping tools to plot this data onto a base map. Next label streets, parks, and other significant feature Include symbols or colors to different various elements. Add a legend to explain map symbol and a scale bar for reference.

refine the map layout for clarity and aesthetics. Once complete you map provides a useful visual representation of your residential area for personal use or sharing with neighbors

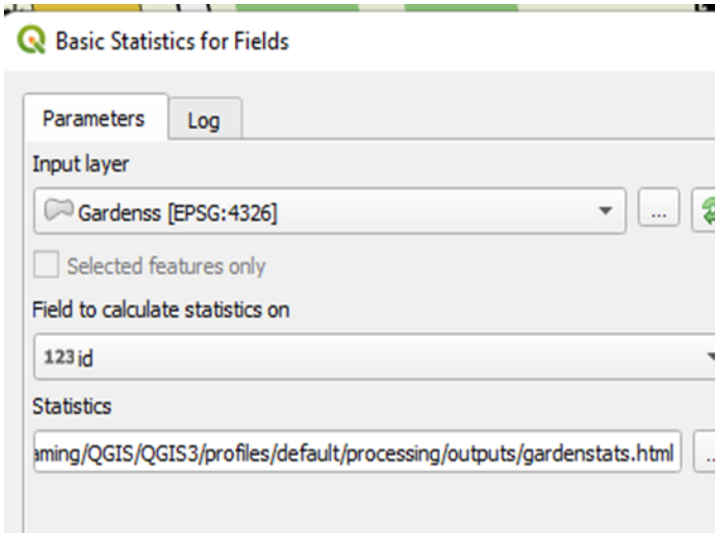
## Calculating Basic Statistics. [Write steps and insert Screenshot]

**Roads –**

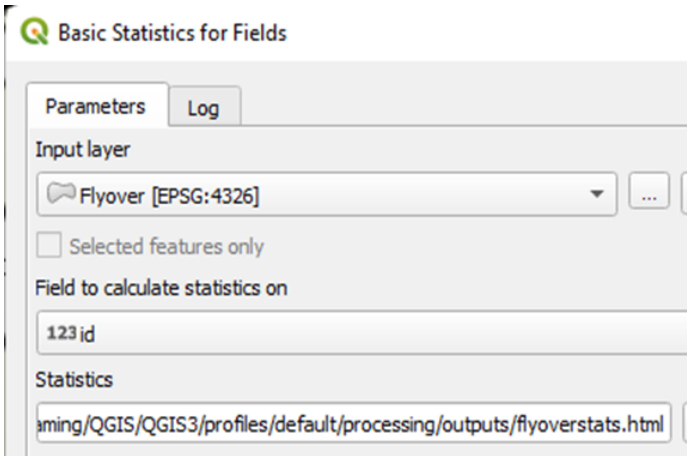


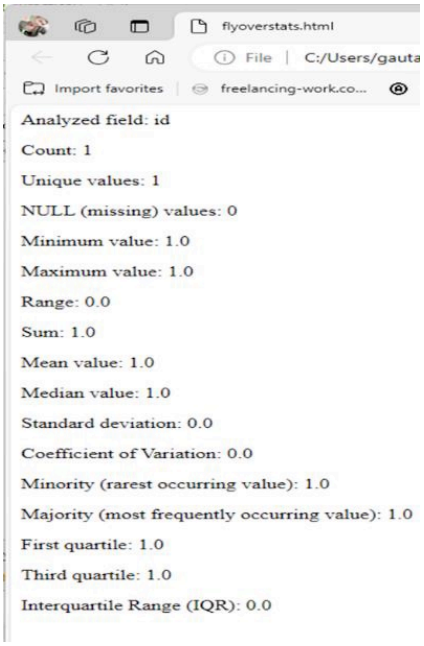




**Garden –**

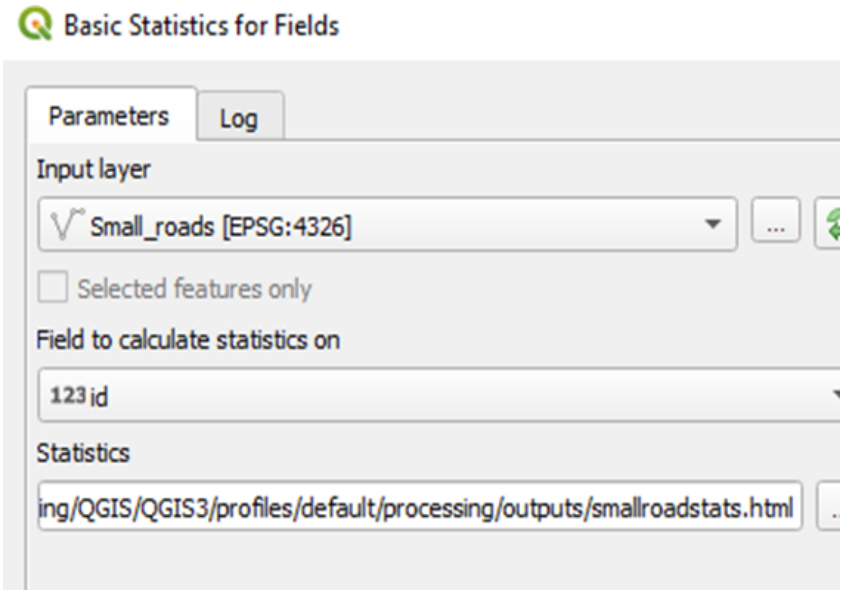


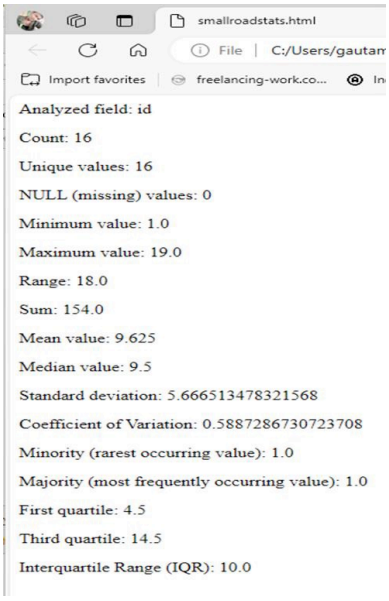
**Flyover -**



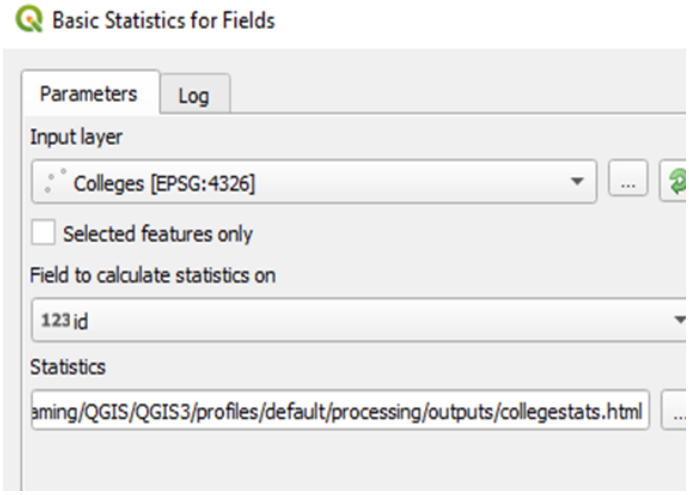



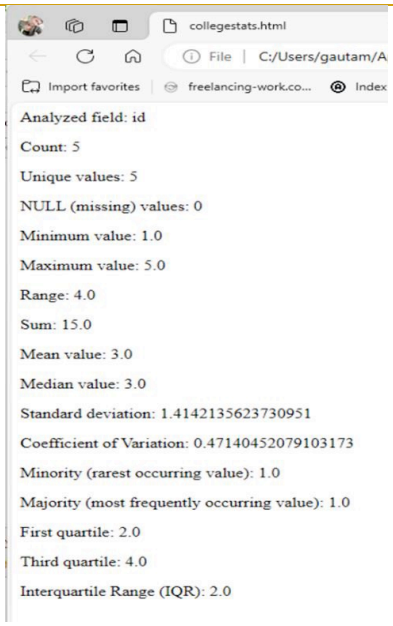

**Small Roads -**



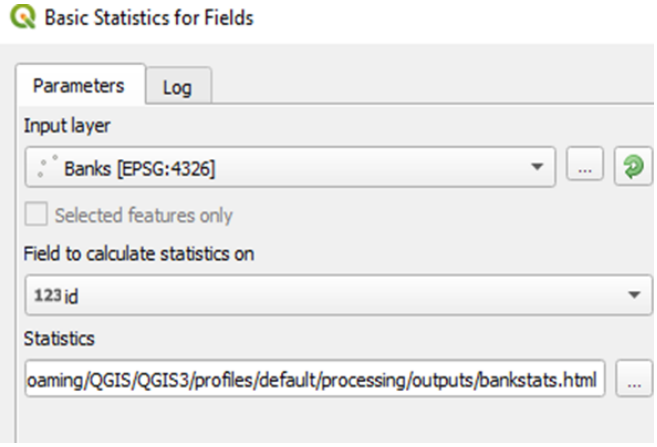



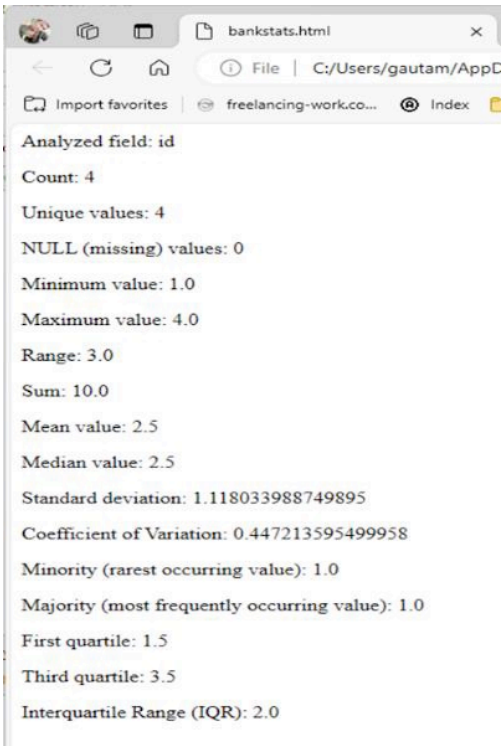

**College –**



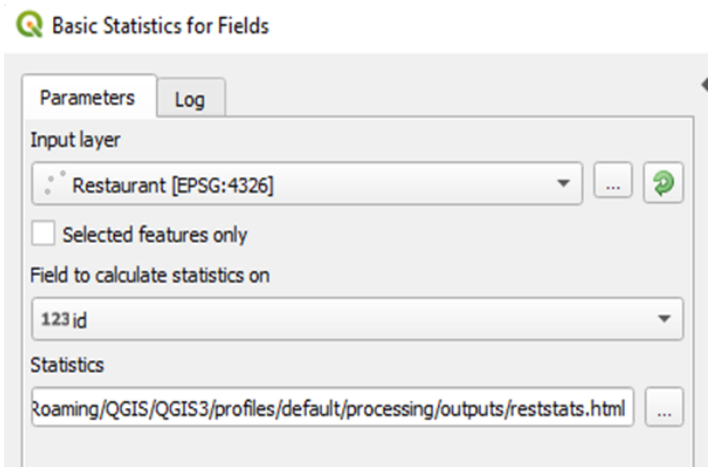



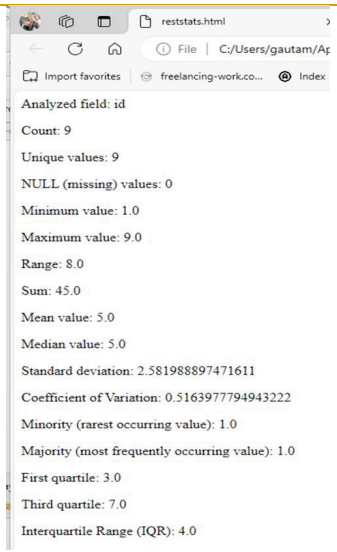

**Bank –**



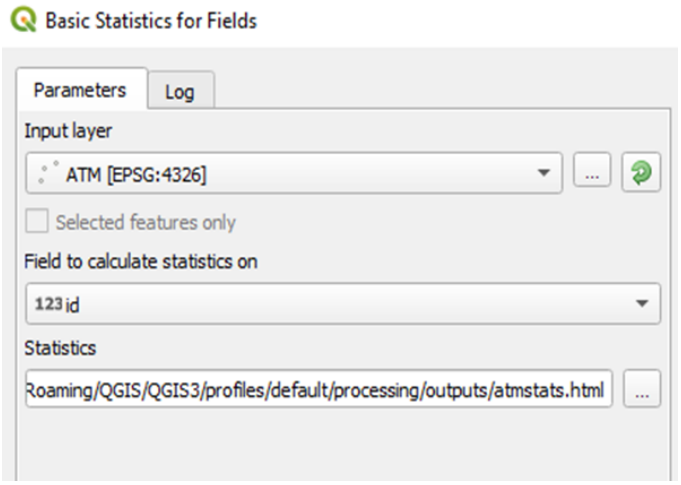



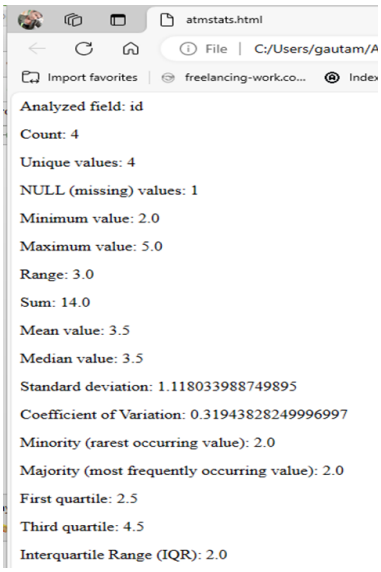

**Restaurants –**



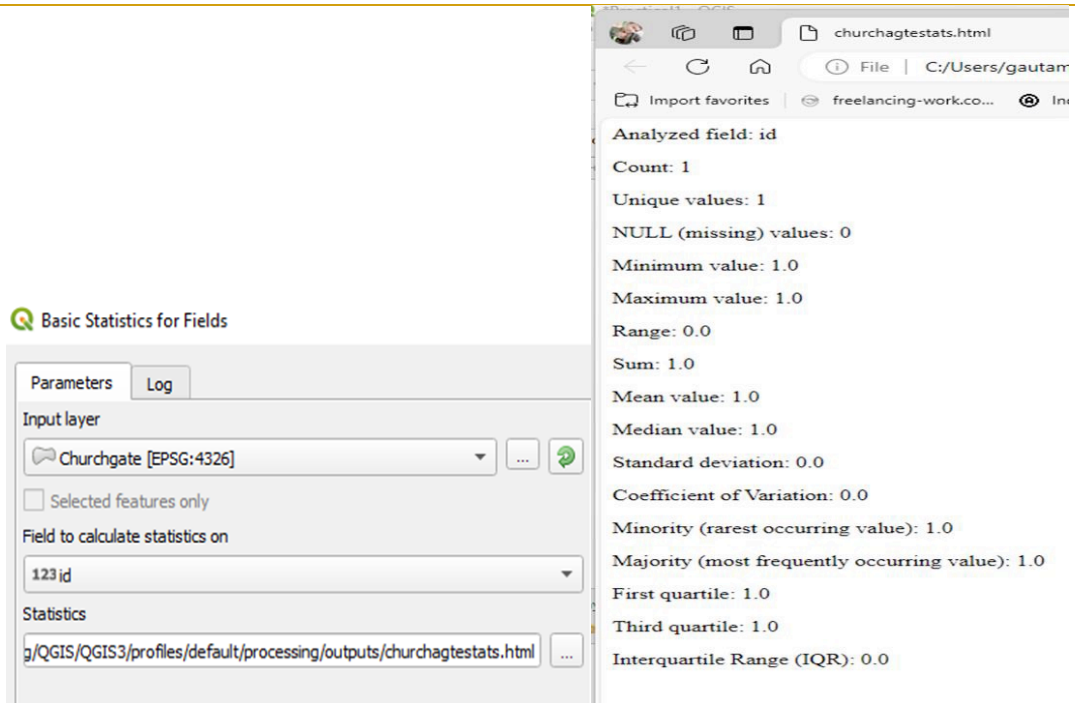




**ATM –**




**Churchgate –**



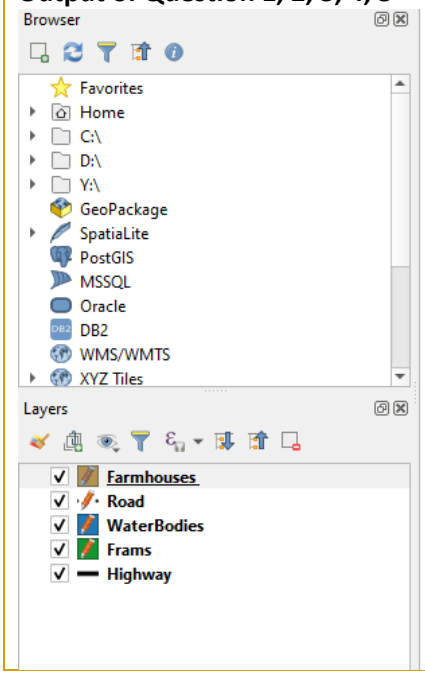

**Problem Statement 5**

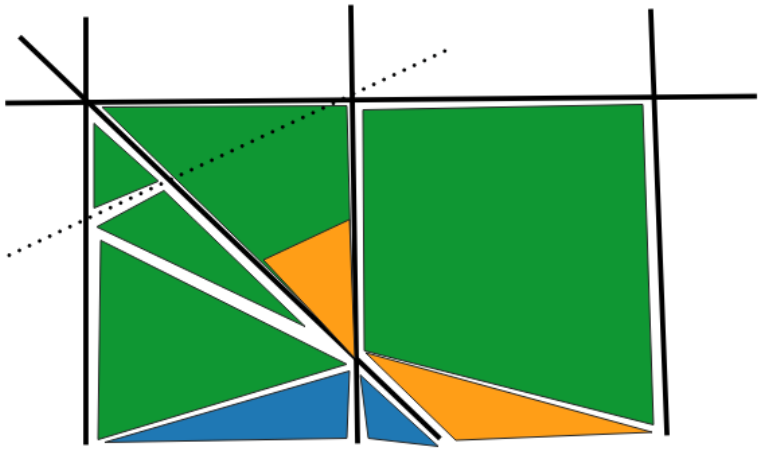
**Create a map with help of Google maps and perform the queries.**

Create a map of railway route of CST to Panvel including the buildings adjacent to railway tracks. Use googles maps to find the layers. There should be minimum five layers:

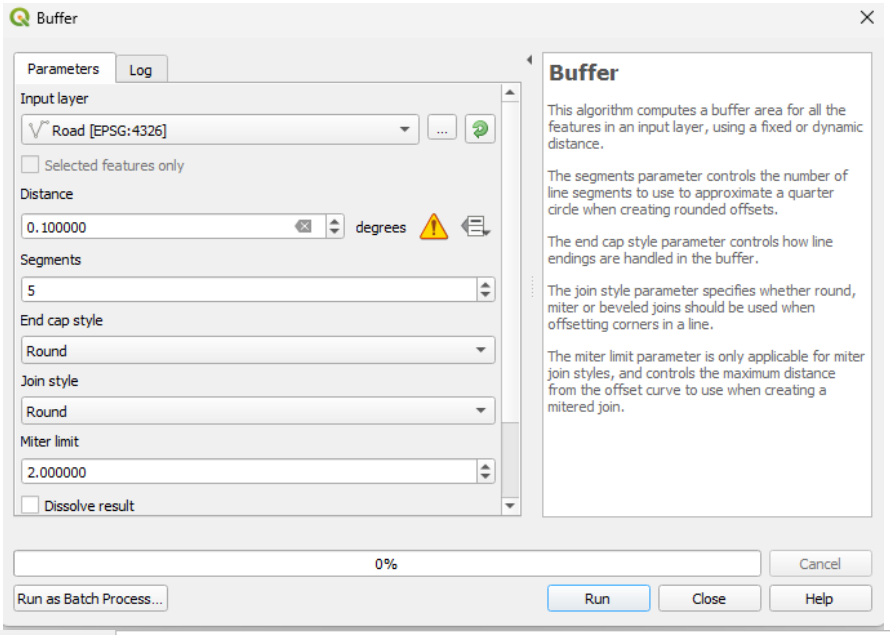
1. Add 5 Highways
2. Add 5 Farms (id, own_name) (2 farms near Highway)
3. Add 2 water bodies
4. Add a main road that passes near farms and touches the highway.
5. Add 2 Farmhouses in any two farms (id, frm_id).
6. Show all the farms that are close to the highways (within 10km range).
7. Calculate area of each farm and show the smallest farm.
8. Show all the highways that passes through the water bosies.
9. Format the above layers using different styling options.

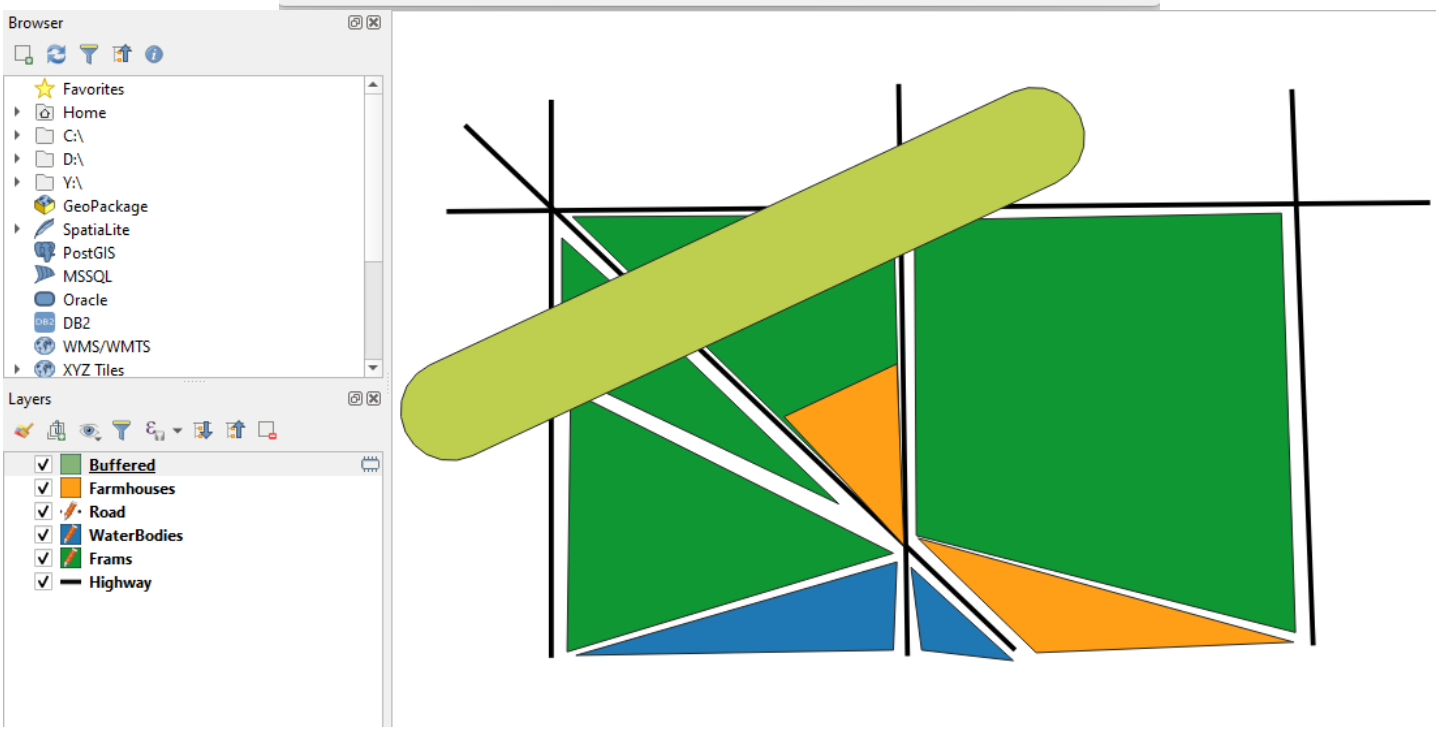
**Output of Question 1, 2, 3, 4, 5 -**



**Question 6 -**




**Question 7 -**

**Question 8 -**

**Question 9 -**

Put screenshot of Spoken Tut Certificate on QGIS

Spoken Tutorial Project at IIT Bombay

# Certificate for the Completion of QGIS Training

This is to certify that **GUPTA SANJEEV** has successfully completed **QGIS** test organized at **Vidyalankar School of Information Technology (VSIT).** by **Vmol VSIT** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

**Swapnali Sawant** from **Vidyalankar School of Information Technology (VSIT).** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

**Credits:** 2 **Score:** 85.00%

February 20th 2024

**Prof. Kannan M Moudgalya**
**IIT Bombay**

Credits for the Spoken Tutorial courses are based on our estimates of the work required to complete them. Recipient institutions are required to apply due diligence and get them ratified/modified by their own duly formed academic/assessment body. Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India.

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