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---------- **Practical 3** ----------

Importing Spreadsheets or CSV files and Using Plugins

Importing Spreadsheets or CSV files

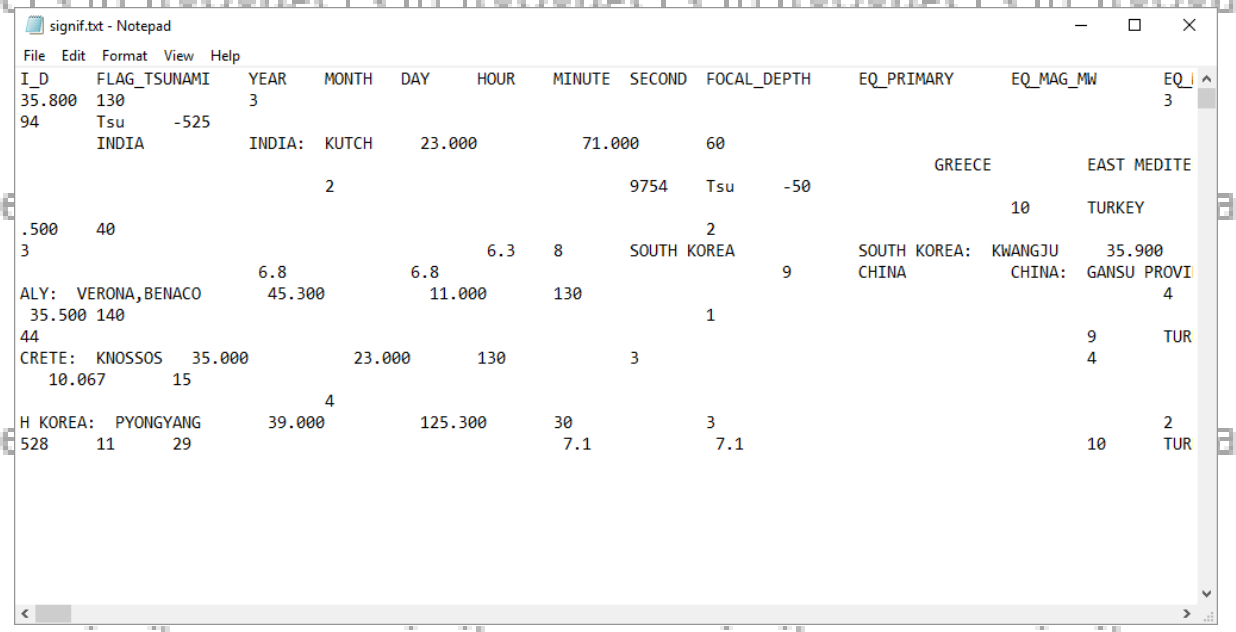
Please download the following version of QGIS.

http://download.osgeo.org/qgis/win64/QGIS-OSGeo4W-2.0.1-Setup-x86_64.exe

Please download the resources files from the below link.

https://drive.google.com/open?id=1ycZX0iSqfjC4s_MXNnxmissaNKu-cNQx

We can save our GIS data in the form of tabular format like CSV file or structured text format like we are going to use in this practical.
Following file contains the data about earthquake, it has latitude and longitude values for each feature, we can see that columns are separated by TAB.



We are going to use QGIS 2.0.1 version.

First we have to call that data file in QGIS for that go to

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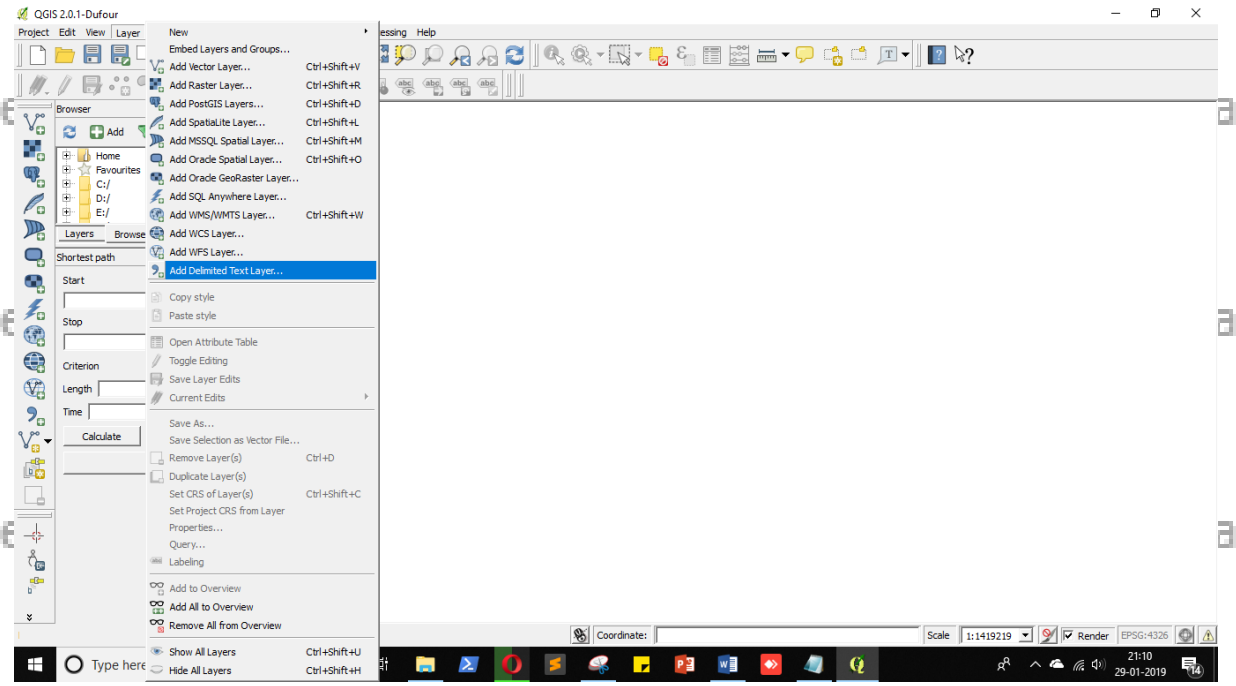
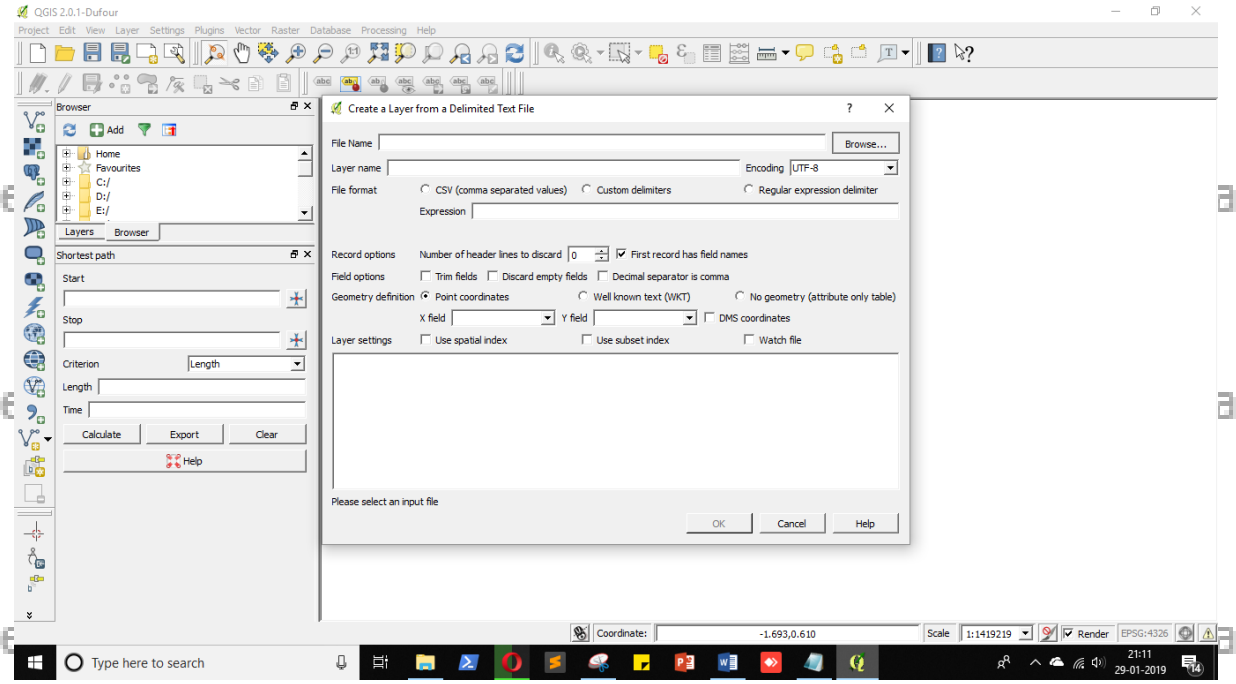
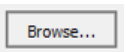
Layer > Add Delimited Text Layer…



In “File Name” field we have to select our data file (“signif.txt”)



Click on  “Browse…” button in front of “File Name” field.

Select “signif.txt” file and click “Open”.

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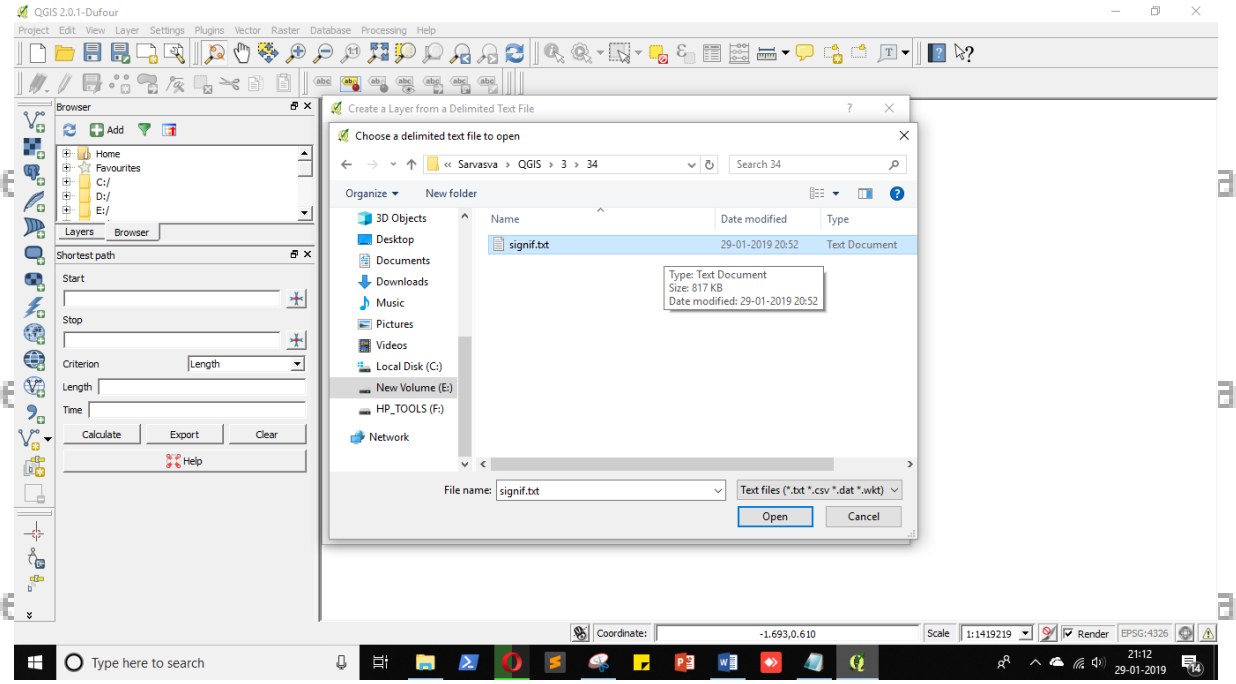

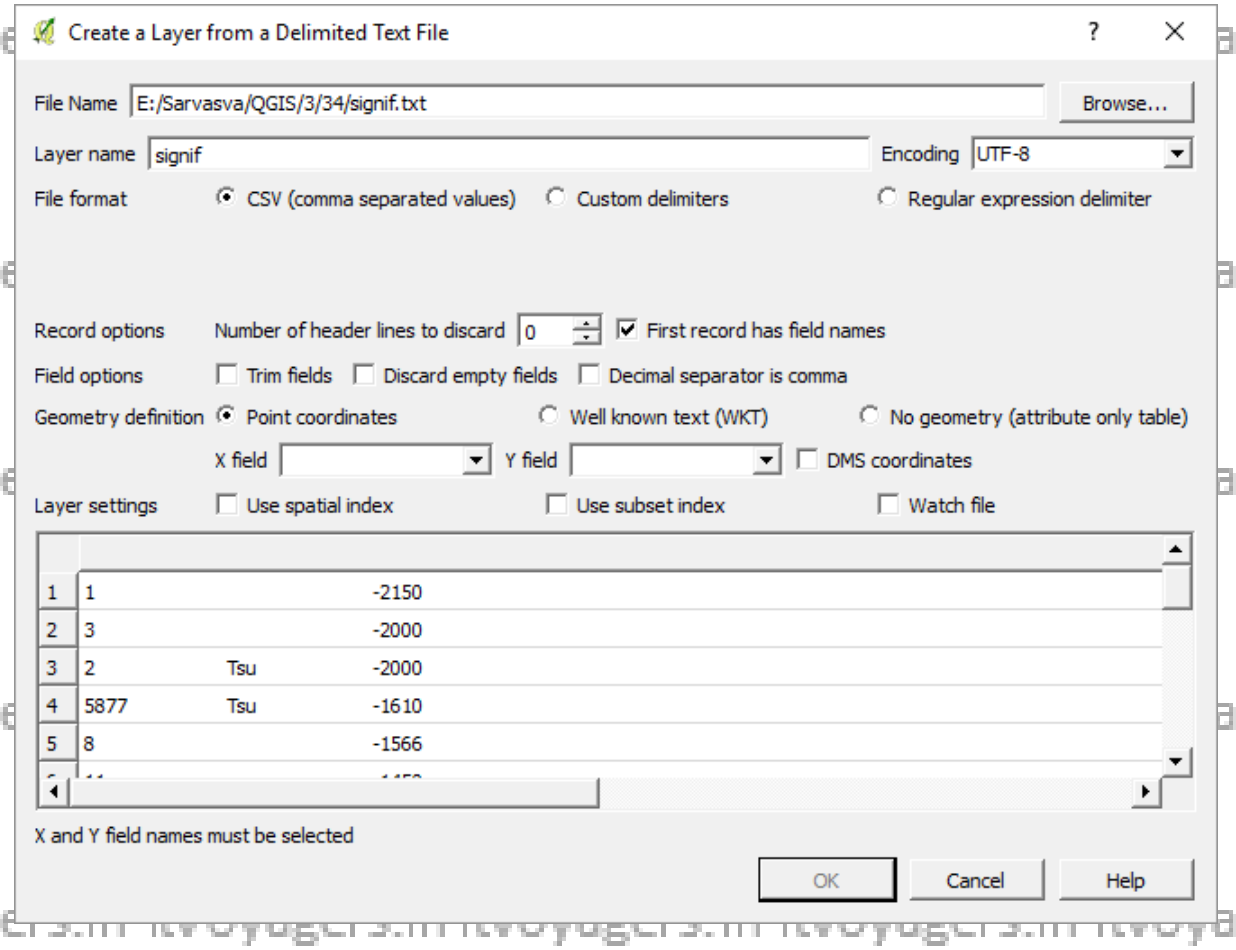

In "File format" panel we have to select "Custom delimiters" radio button.

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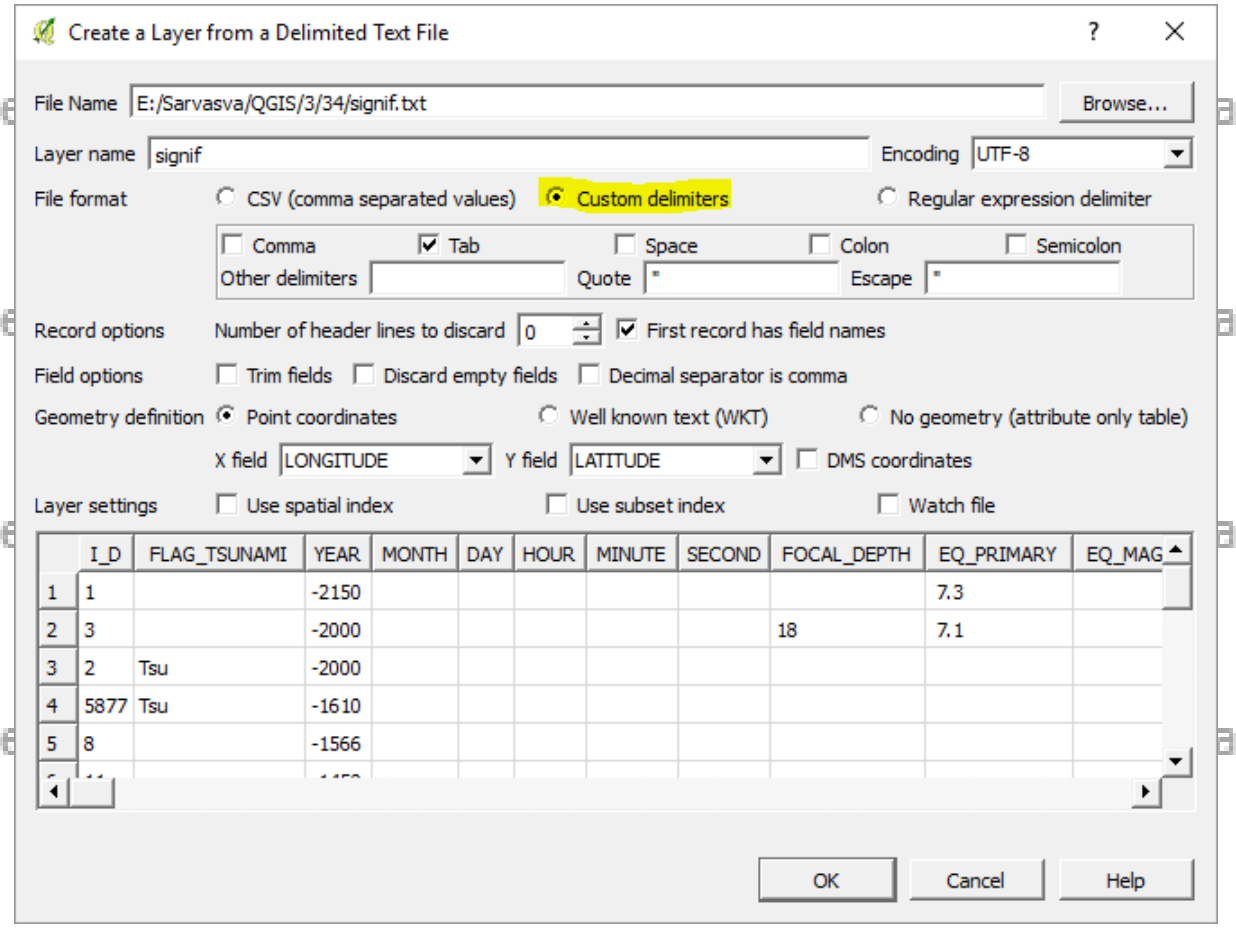
It will ask QGIS to read coordinate data from the file itself.



In "Geometry definition" we have to select "Point coordinates", we can see that in "X field" drop box "LONGITUDE" and "LATITUDE" in "Y field" QGIS does this for us. It will scan the data file and find the field which contains coordinates data. Usually fields name are "LONGITUDE" and "LATITUDE".

Now in "Layer setting" panel select "Use spatial index" check box.

Click on "OK"

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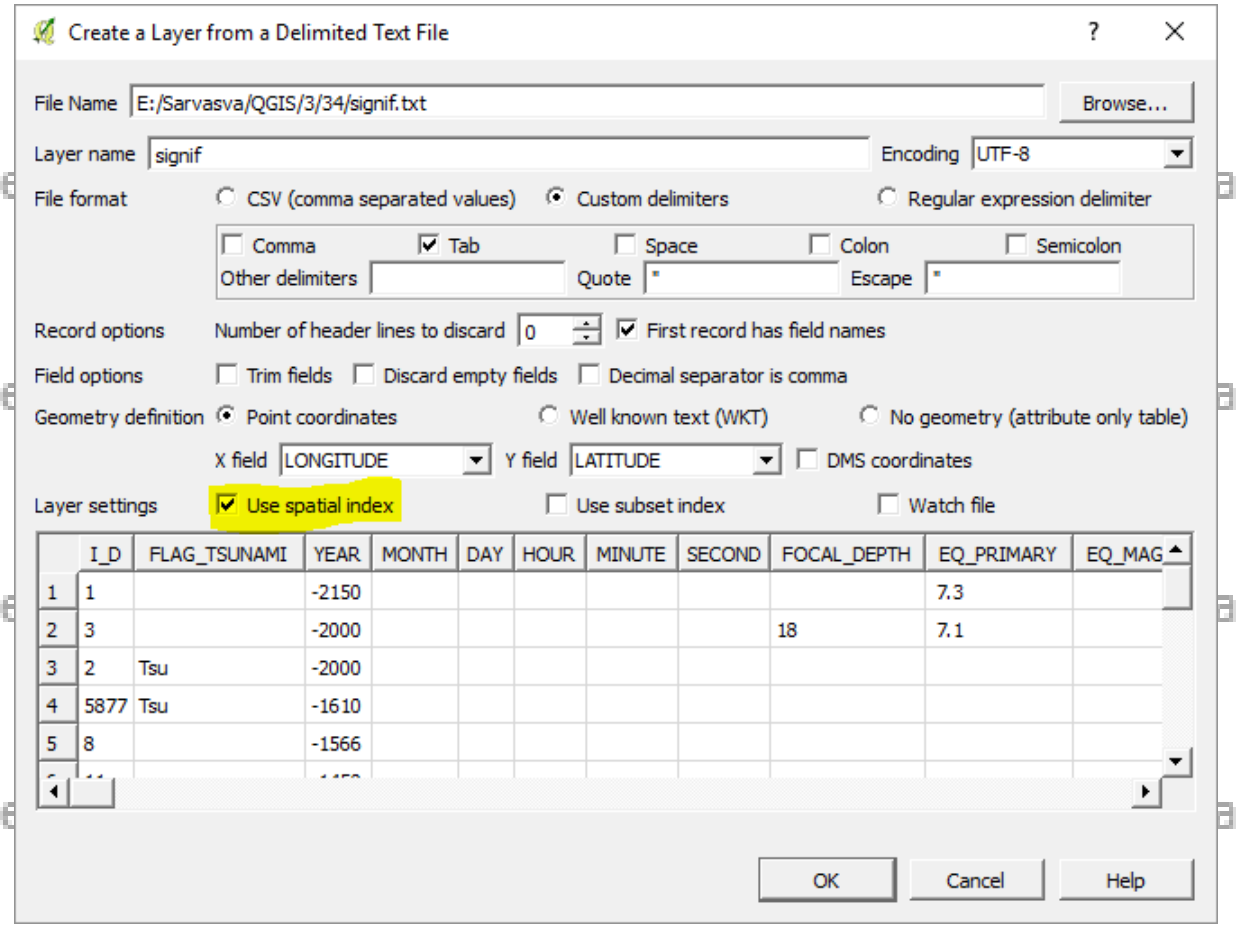
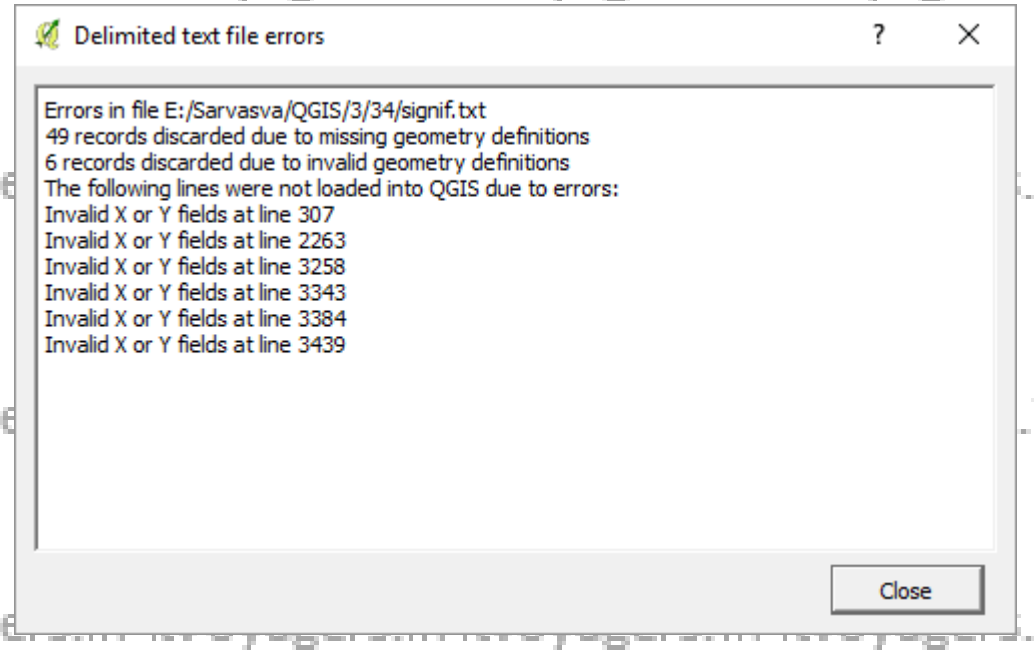


This error will show up, it is because of missing X and Y values. We can ignore this error for this practical. Click on "Close".



Now it will ask for CRS details, select "WGS 84 EPSG:4326" and press "OK".

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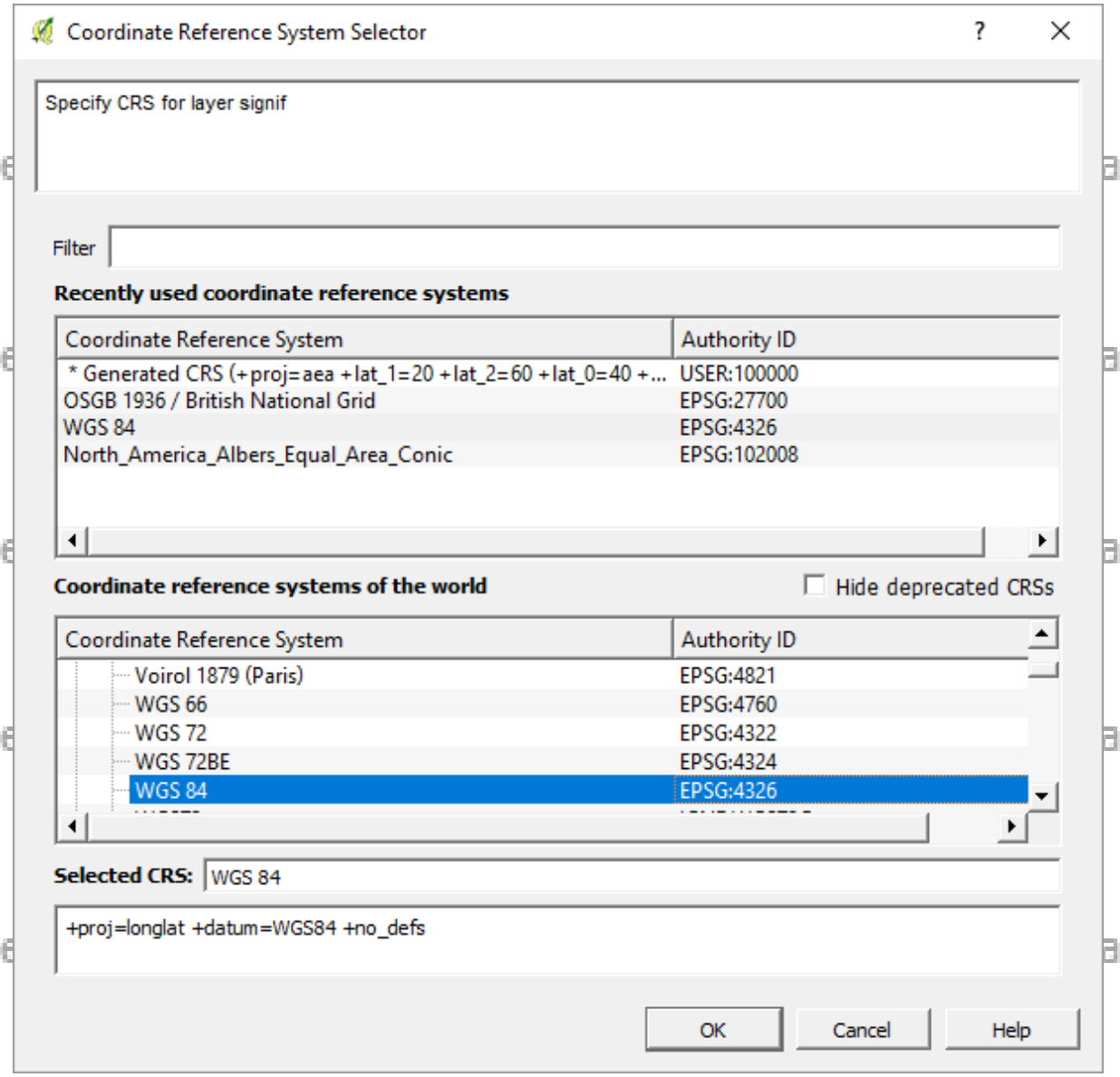

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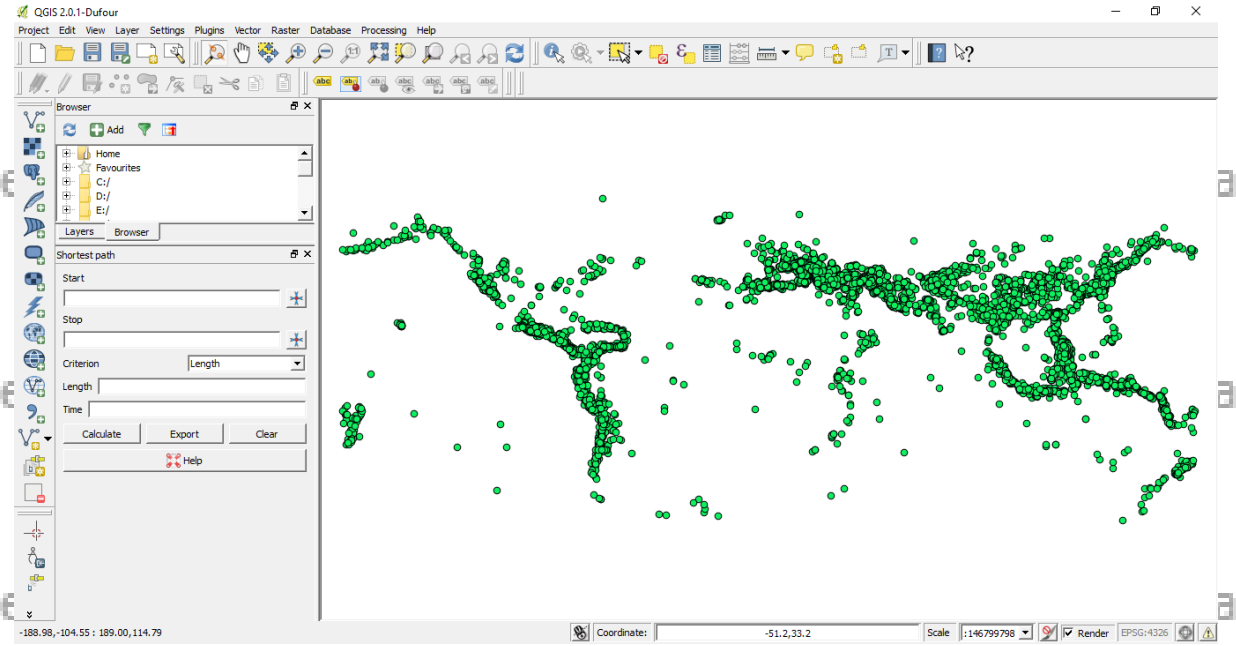

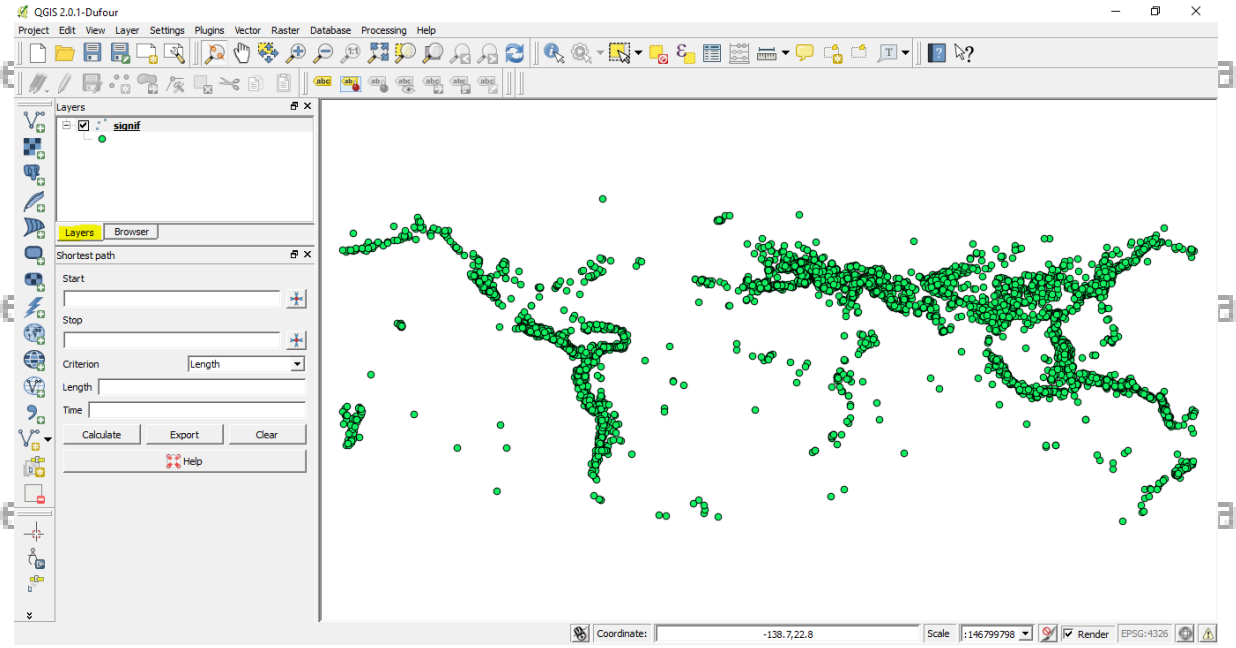

We can see that in "Layer" panel we have the layer named "signif" and in canvas the data is been represented in form on point shape feature.

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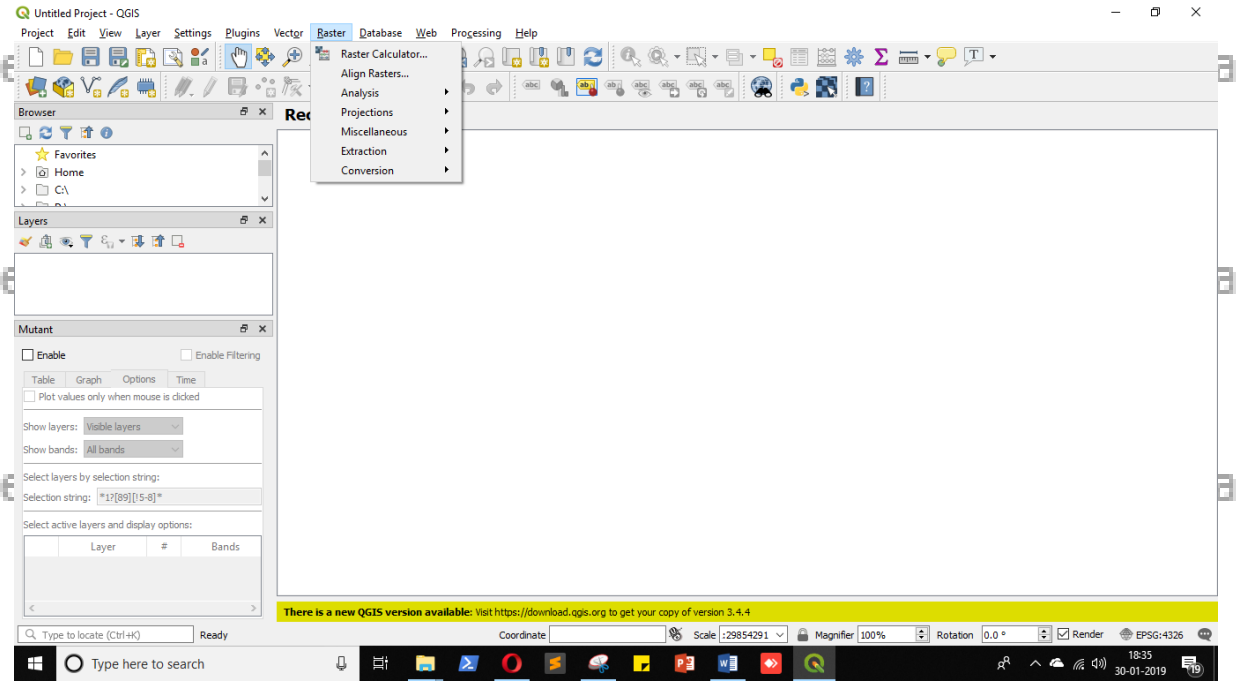
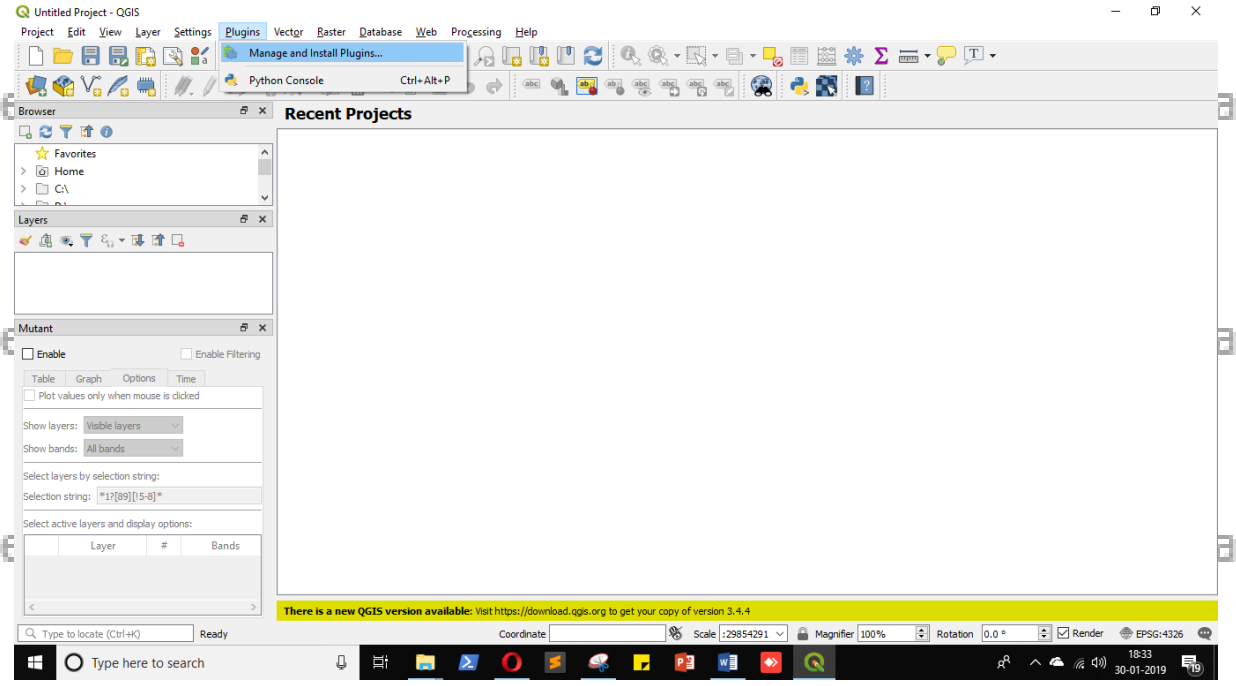
Using Plugins

Plugins are the additional program to the software which help us to perform operations on data. In QGIS we can find many plugins installed already those are called core plugins. We can add extra plugins which are developed by QGIS team or another developer. In QGIS many plugins are installed already but are hidden like "Georeferencer" in "Raster" tab.



Currently we can't see "Georeferencer" option we have to make it visible, for that go to

Plugins > Manage and Install Plugins...



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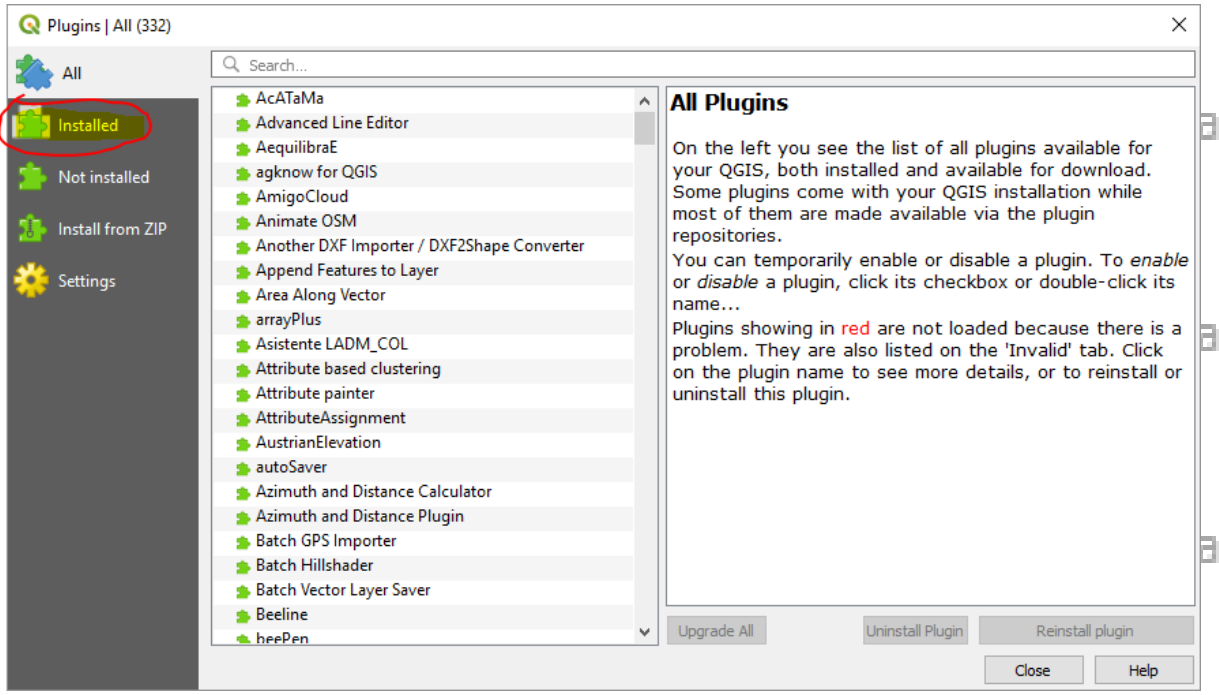
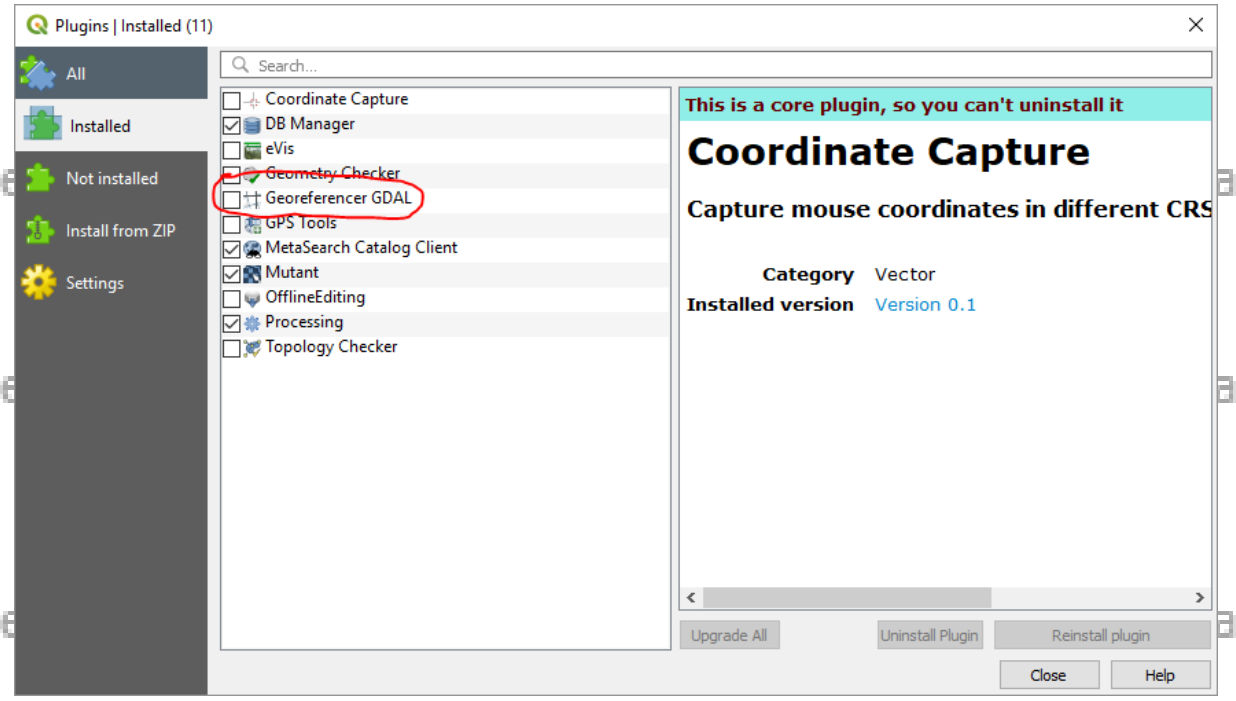
Plugins window will appear, click on "Installed" tab.



We can see "Georeferencer GDAL" is unchecked, to make it visible we have to check it and click "Close".



"Georeferencer GDAL" is a core plugin and we can't uninstall it.

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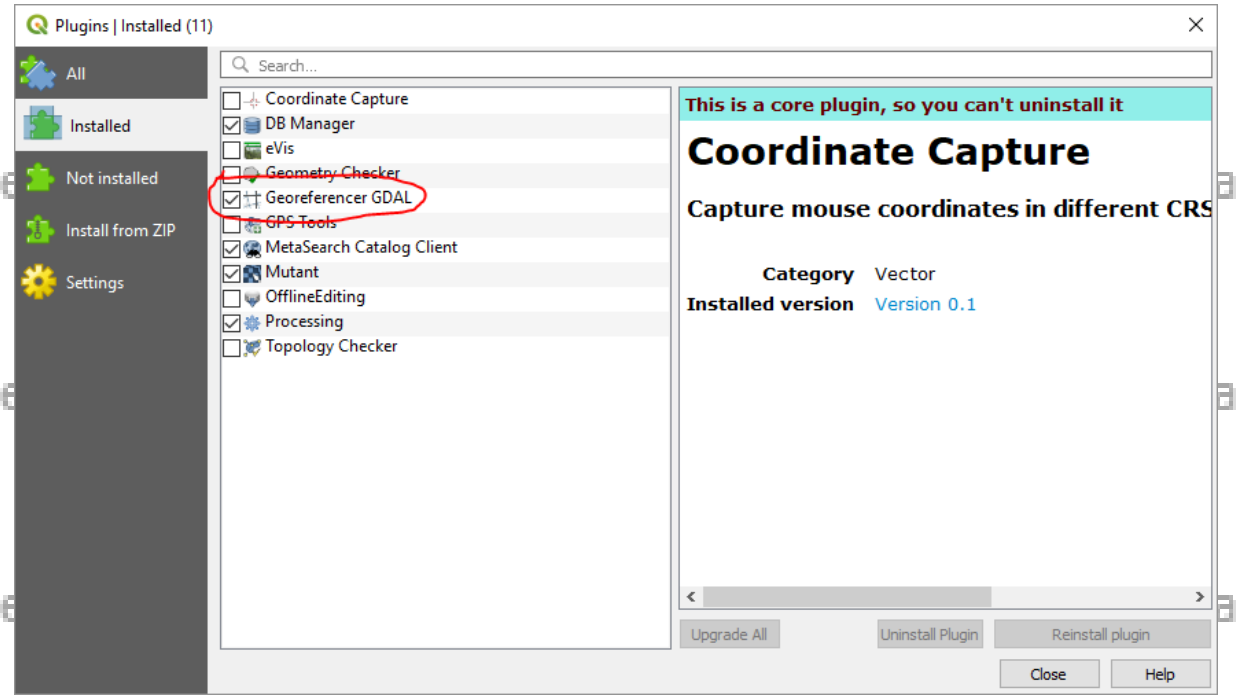

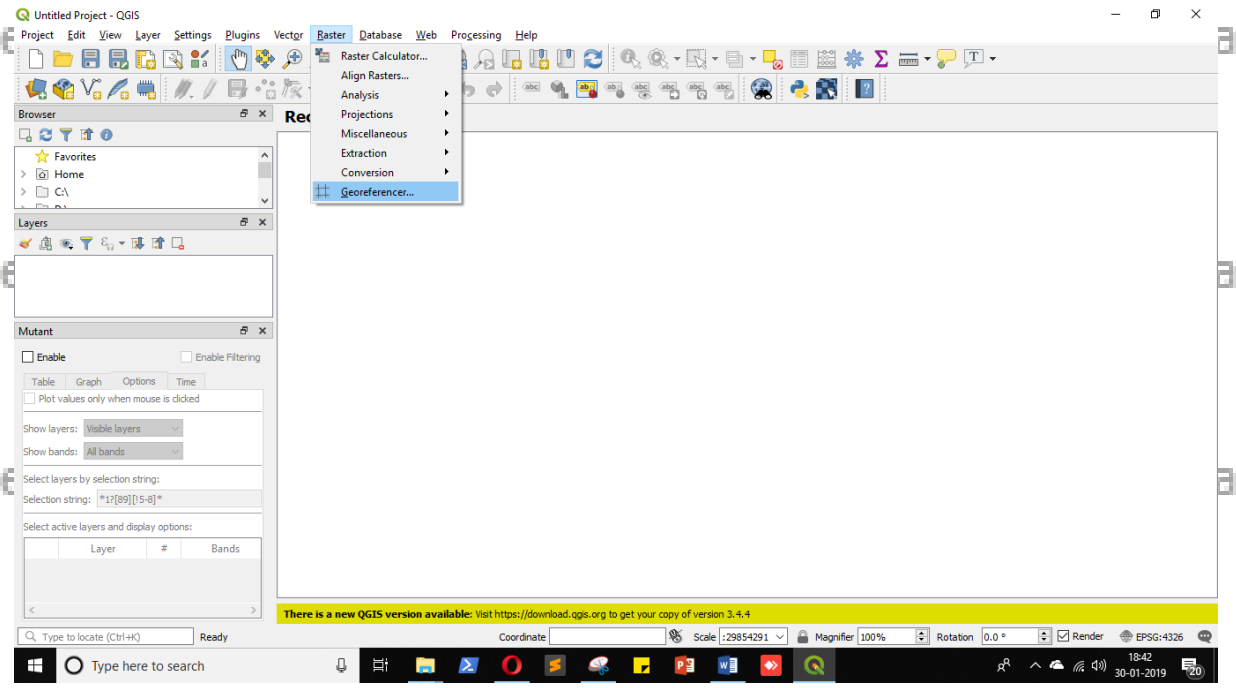

Now let's install new plugin in QGIS, go to

Plugins > Manage and Install Plugins…

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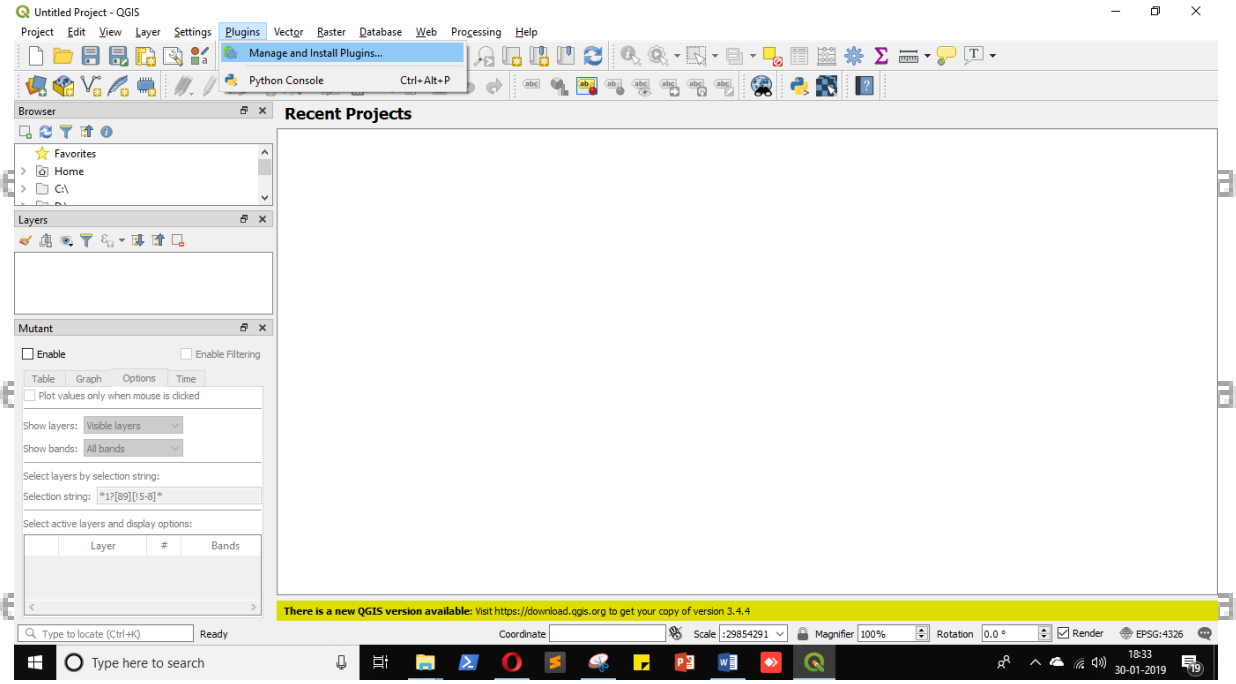
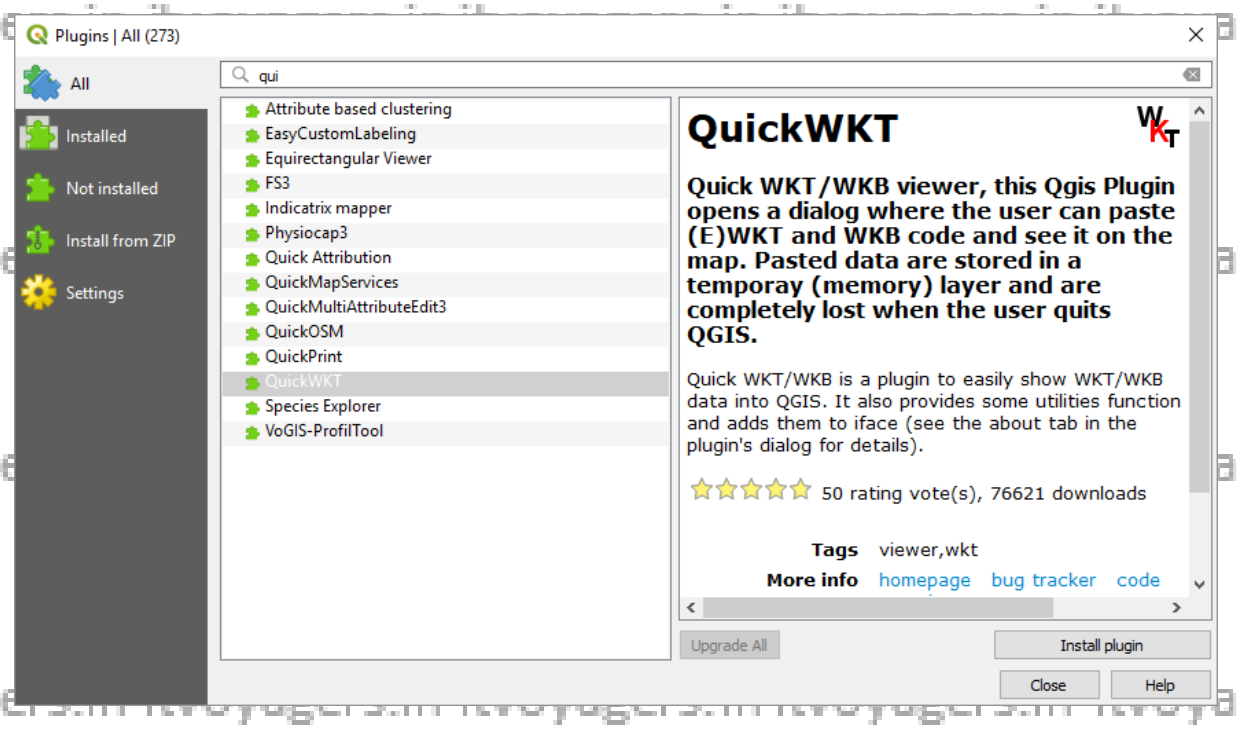
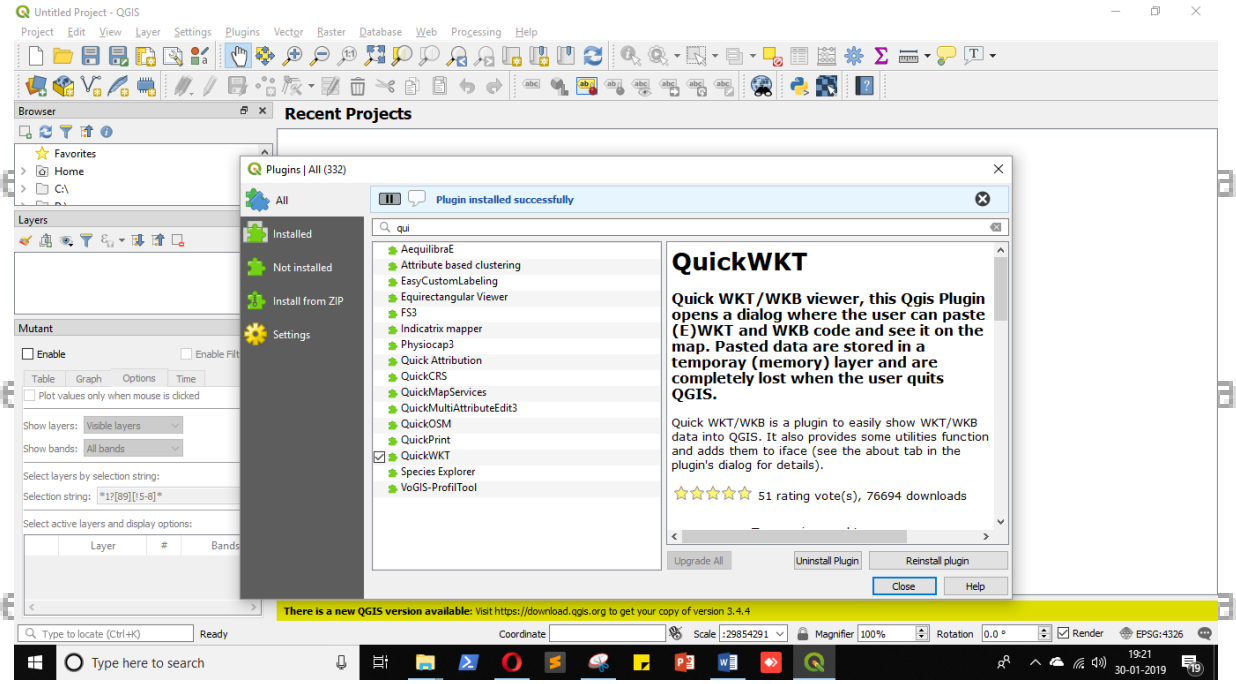


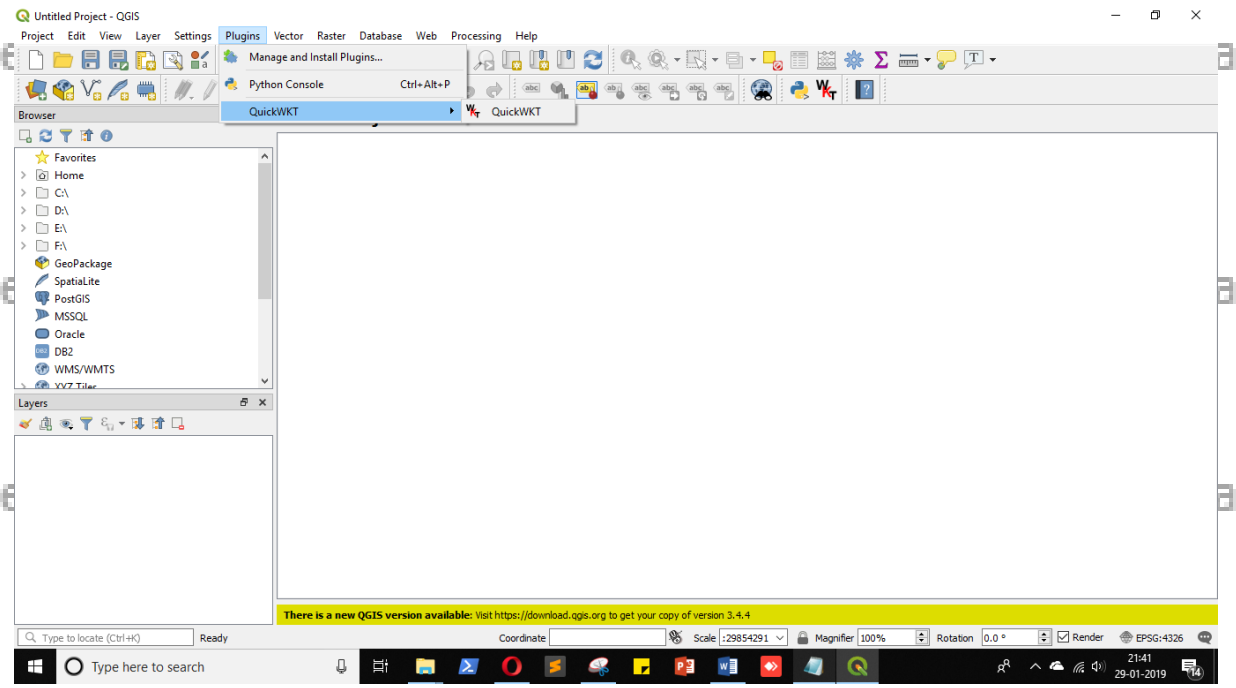
Type "qui" in search bar we can see "QuickWKT" plugin select it and click on "Install Plugin" button.



Now close the window.



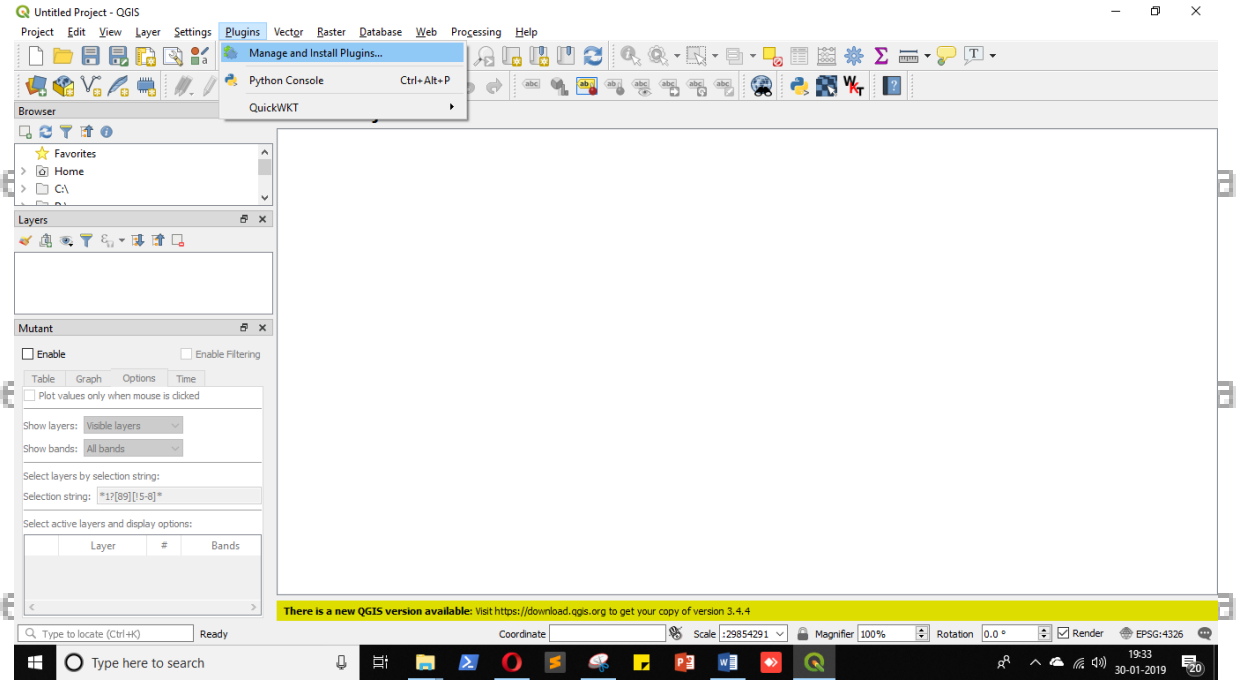
Now we can see "QuickWKT" plugin in "Plugins" tab.



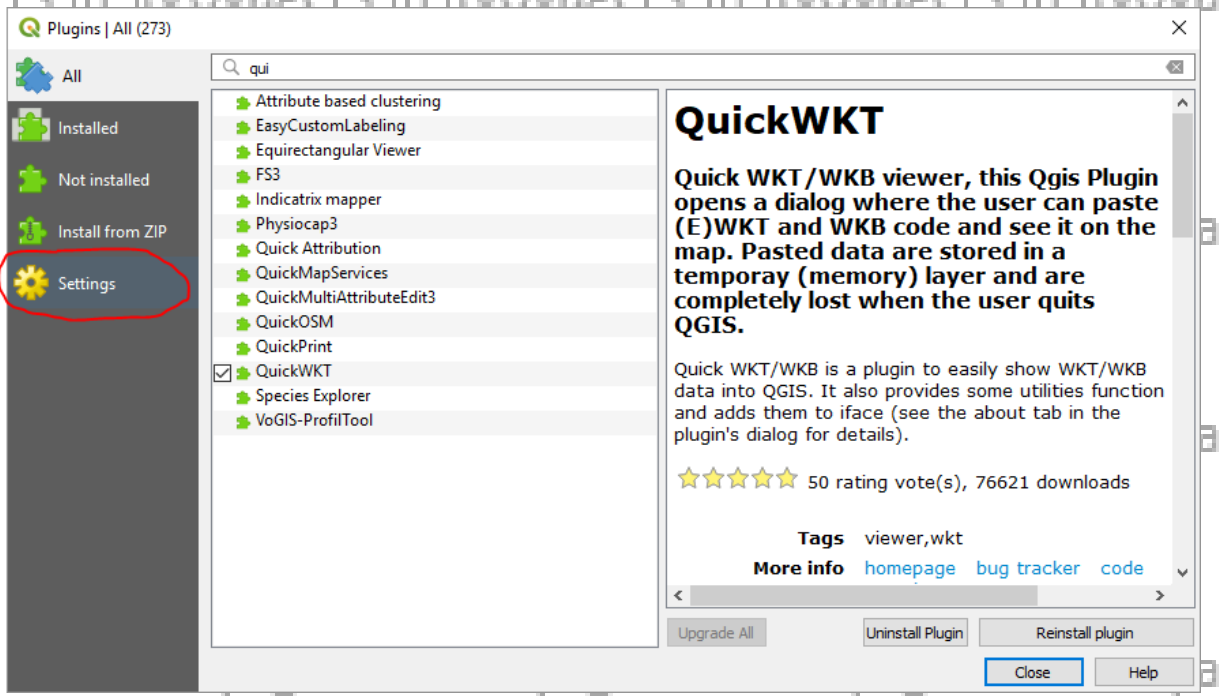
Some plugins are marked as Experimental, we can't find them in normal settings.

To install those plugins we have to open Plugins window again. Go to

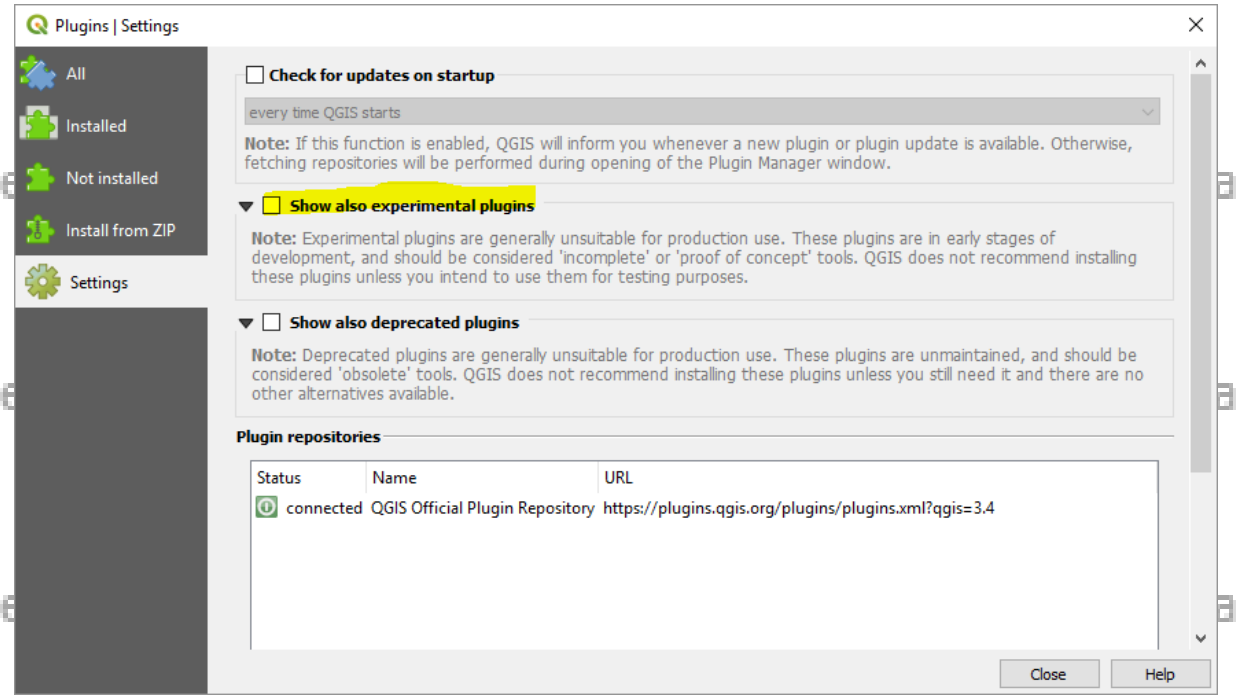
Plugins > Manage and Install Plugins…



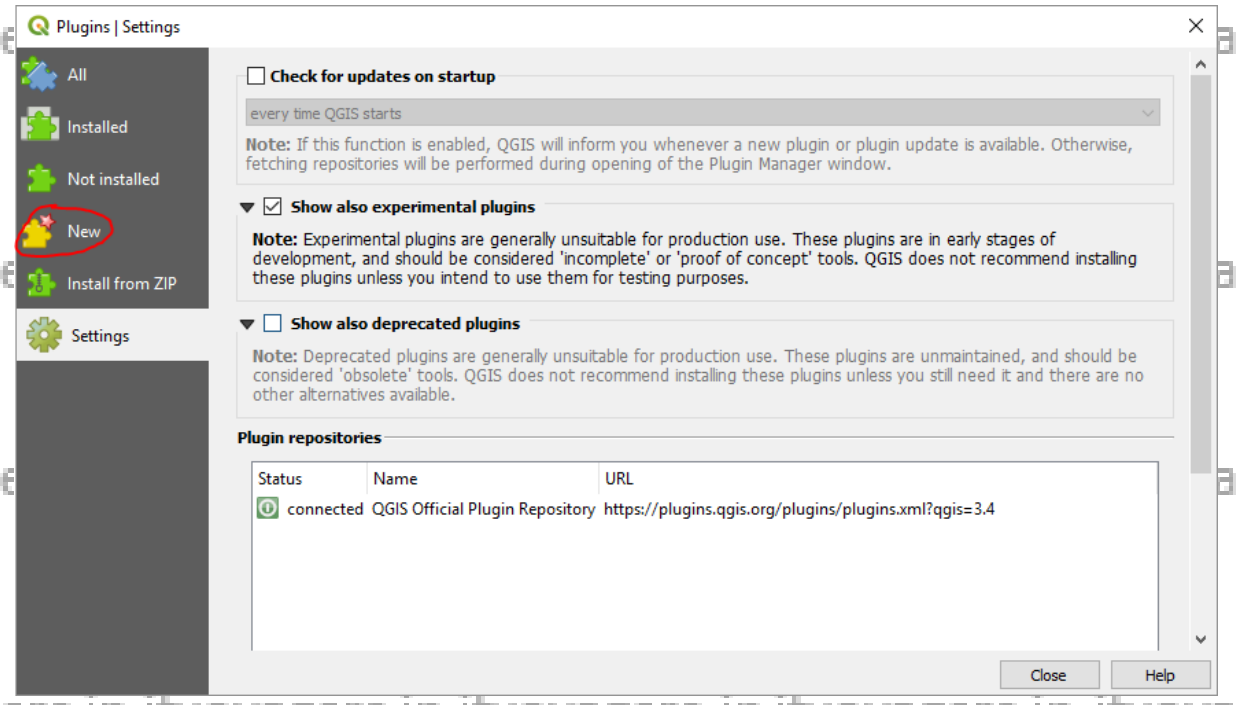
Go to "Settings" tab.



We have to check "Show also experimental plugins" check box.



We can see that new tab named "New" is been added to Plugins window, Click on it.



Let's search some plugins for "time".

Enter "time" in search box.

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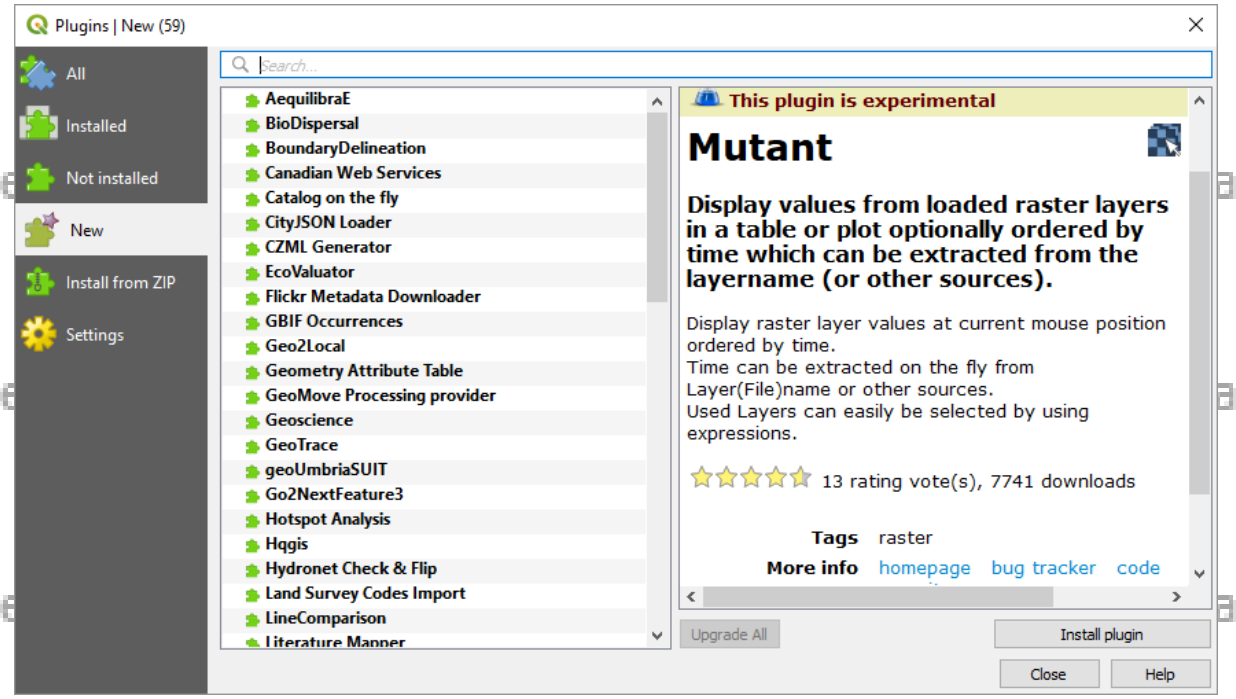
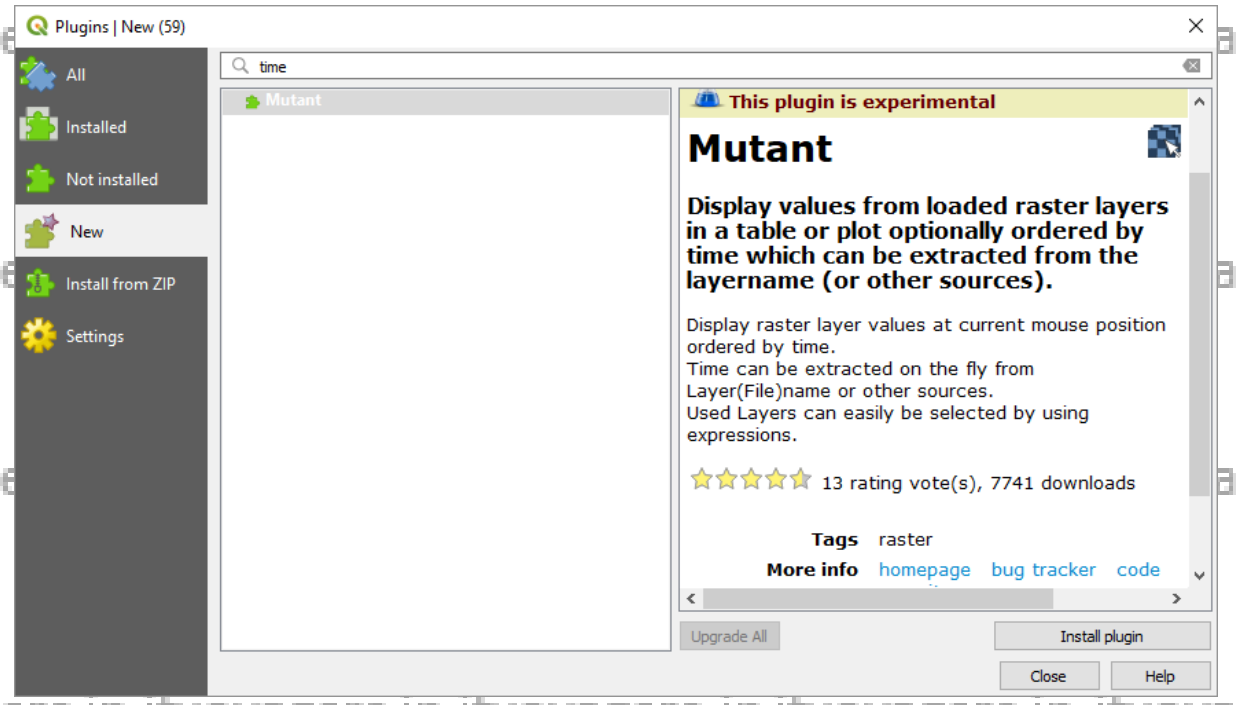


Yes we have one named "Mutant", select it and click on "Installed plugin".



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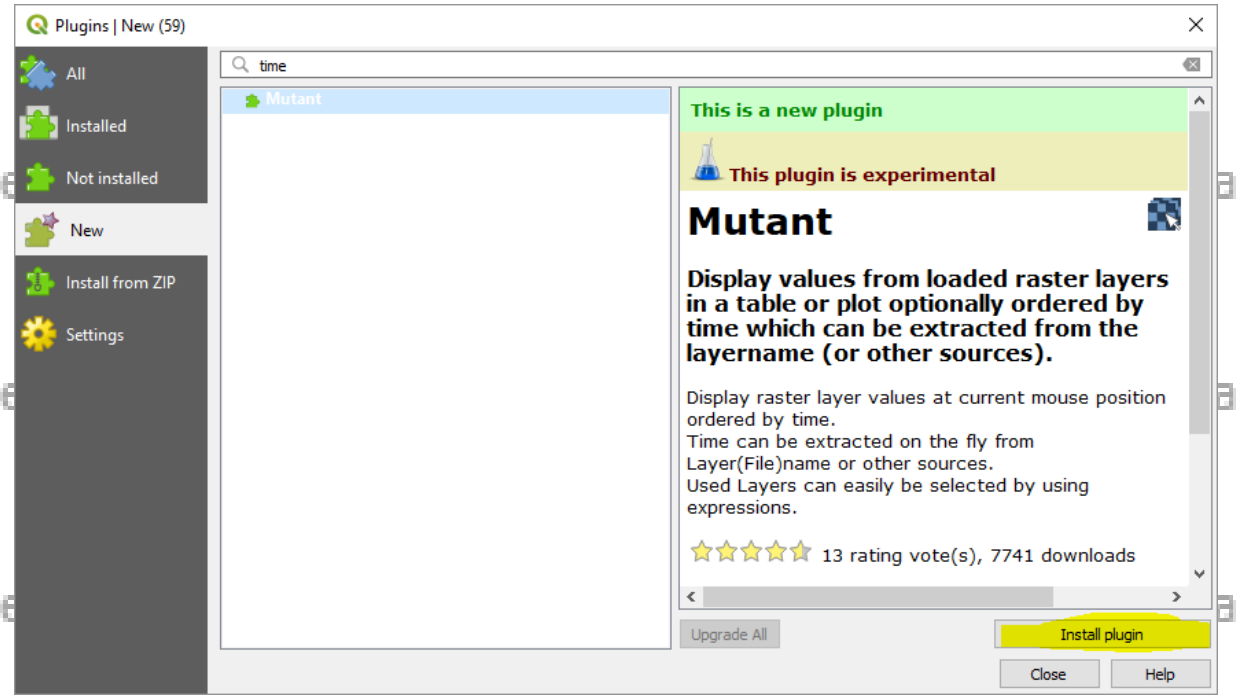
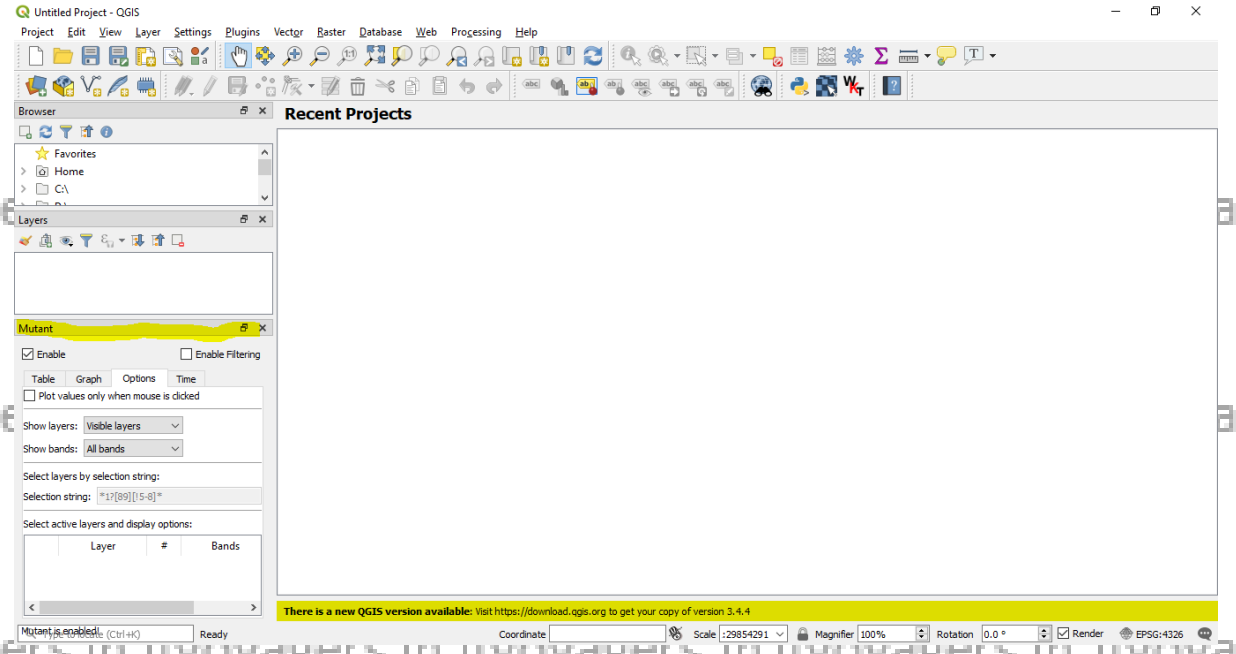
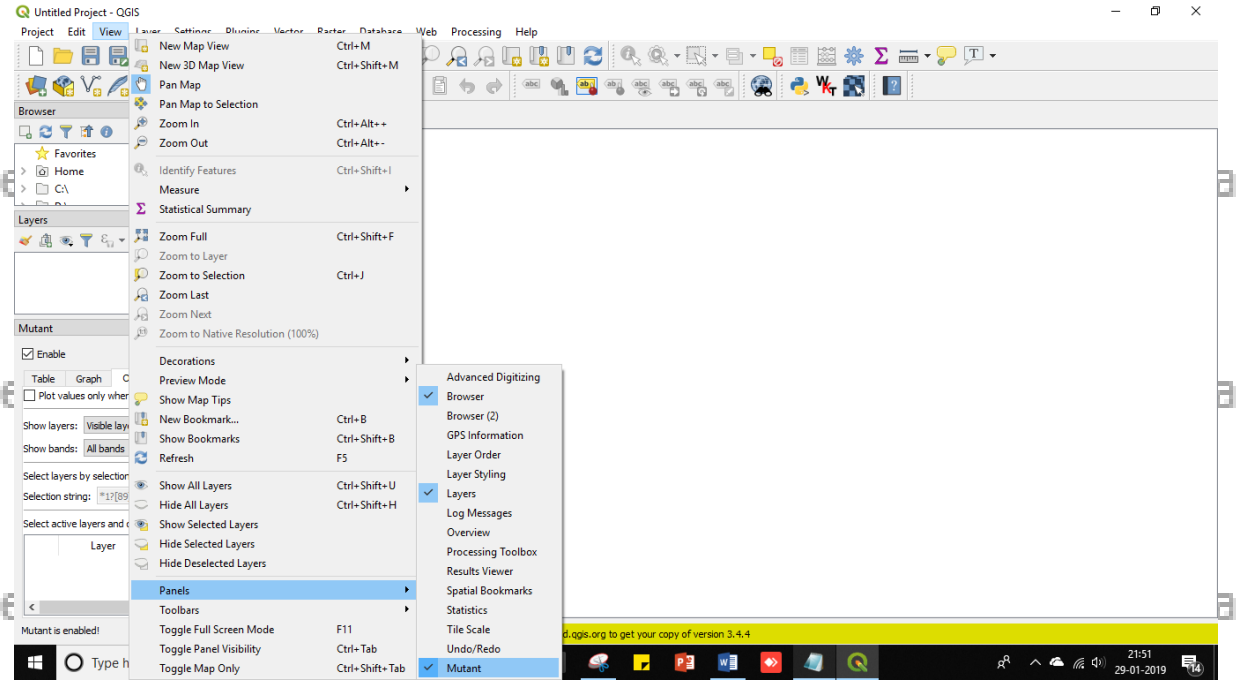


Close the window after installation.

Yes we can see that our plugin has been added in QGIS.



We can find this plugin in

View > Panels > Mutant

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