Report On

Google Earth

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Submitted by

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Contents

1 Task

Some Experiment on Google Earth.

2 Introduction

2.1 Google Earth

Google Earth is a computer program that renders a 3D representation of Earth based on satellite imagery. The program maps the Earth by superimposing satellite images, aerial photography, and GIS data onto a 3D globe, allowing users to see cities and landscapes from various angles.

2.2 History

The core technology behind Google Earth was originally developed at Intrinsic Graphics in the late 1990s. At the time, the company was developing 3D gaming software libraries.As a demo of their 3D software, they created a spinning globe that could be zoomed into, similar to the Powers of Ten film.The demo was popular, but the board of Intrinsic wanted to remain focused on gaming, so in 1999, they created Keyhole, Inc., headed by John Hanke.[6] Keyhole then developed a way to stream large databases of mapping data over the internet to client software, a key part of the technology,and acquired patchworks of mapping data from governments and other sources.The product, called "Keyhole Earth-Viewer", was sold on CDs for use in fields such as real estate, urban planning, defense, and intelligence; users paid a yearly fee for the service.Despite making a number of capital deals with Nvidia and Sony,the small company was struggling to make payroll, and employees were leaving.

Fortunes for the company changed in early 2003 when CNN received a discount for the software in exchange for placing the Keyhole logo on-air whenever the map was used.Keyhole did not expect it would amount to more than brief 5 or 10 second prerecorded animation clips, but it was used extensively by Miles O'Brien live during the 2003 invasion of Iraq, allowing CNN and millions of viewers to follow the progress of the war in a way that had never been seen before.Public interest in the software exploded and Keyhole servers were not able to keep up with demand.Keyhole was soon contacted by the Central Intelligence Agency's venture capital firm, In-Q-Tel,and the National Geospatial-Intelligence Agency,or use with defense mapping databases, which gave Keyhole a much-needed cash infusion.Intrinsic Graphics was sold in 2003 to Vicarious Visions after its gaming libraries did not sell well, and its core group of engineers and management transitioned to Keyhole with Hanke remaining at the head.

Google Earth automatically displays current imagery. To see how images have changed over time, view past versions of a map on a timeline. Click View Historical Imagery or, above the 3D viewer, click Time .

Open Google Earth and zoom in on the area where you want to view past years' images. Check the Imagery Date in the bottom left corner of the Google Earth screen. If a clock icon and a year appear next to this information, historical images are available.

3   3D imagery

Google Earth shows 3D building models in some cities, including photorealistic 3D imagery. The first 3D buildings in Google Earth were created using 3D modeling applications such as SketchUp and, beginning in 2009, Building Maker,and were uploaded to Google Earth via the 3D Warehouse. In June 2012, Google announced that it would be replacing user-generated 3D buildings with an auto-generated 3D mesh.

4   Some Experiment on google earth

There are some experiment on google earth for example : KML file creation and Area Calculation.

- Download the Google Earth Pro from given link and install in the system. https://softfamous.com/google-earth-pro/

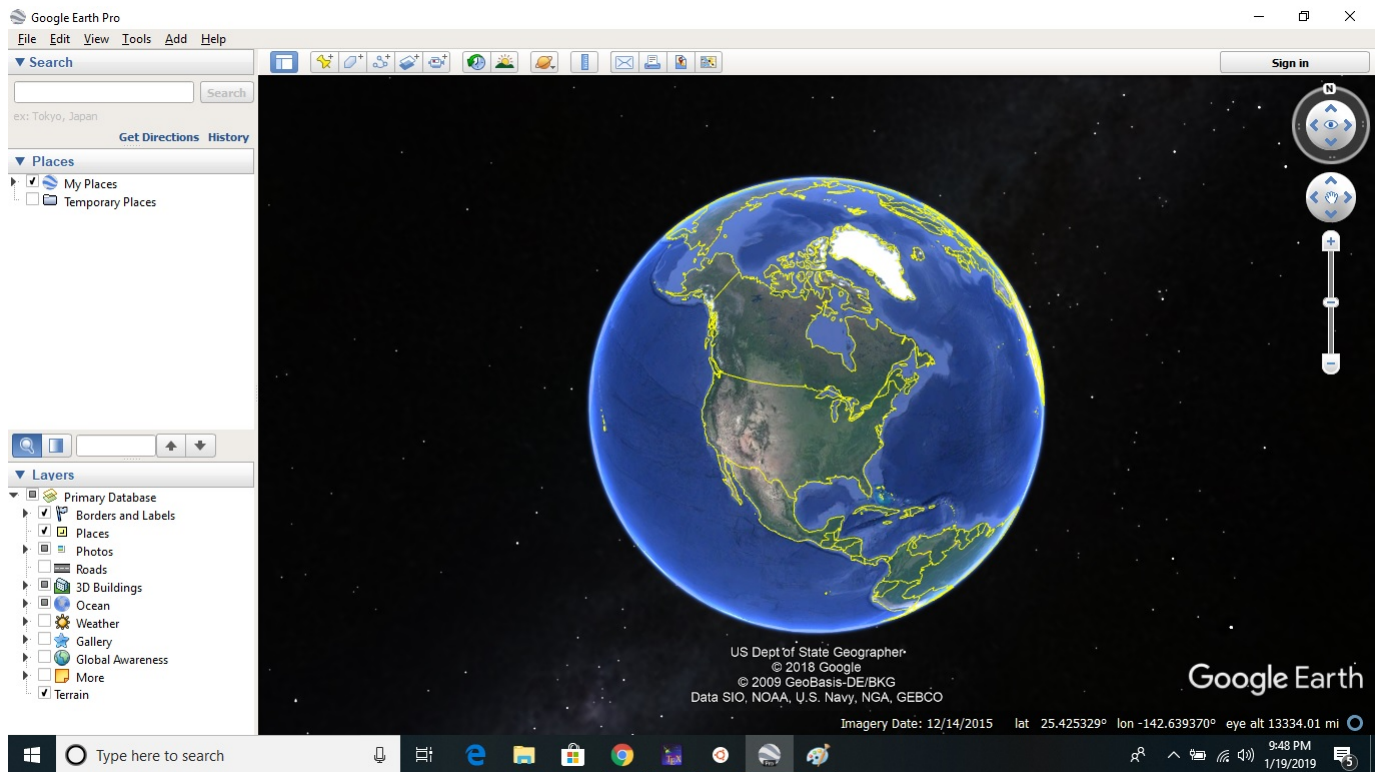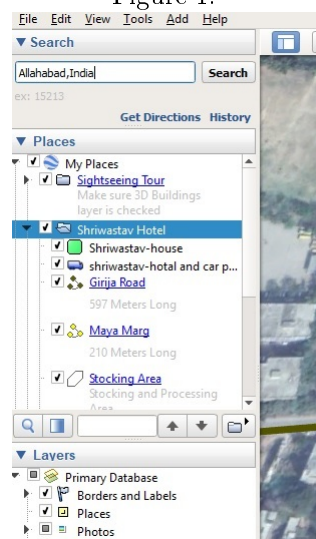- Open the Application and give the area name and search.

Figure 1:

Figure 2:

- After the Searching,the area is shown in given below-

- Take a some particular area and do mapping.For example
  Particular House name
  Road Name
  Comapny name or
  Some Storing and Processing area.

- For Creation path and area calculation in google earth, go to above bar and check,
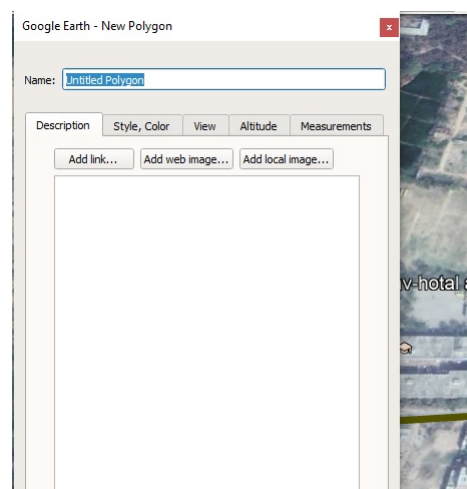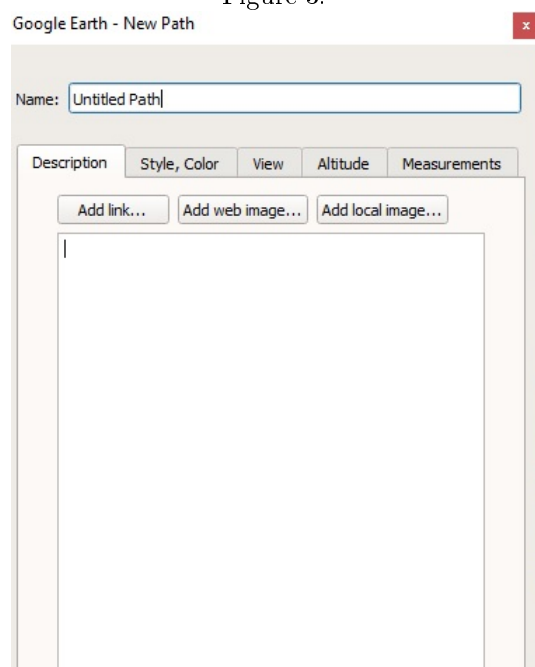 Add Path
  Add Area

Figure 3:

Figure 4:

- After complete the mapping and placemark, Save the file in KML Format(.kml)
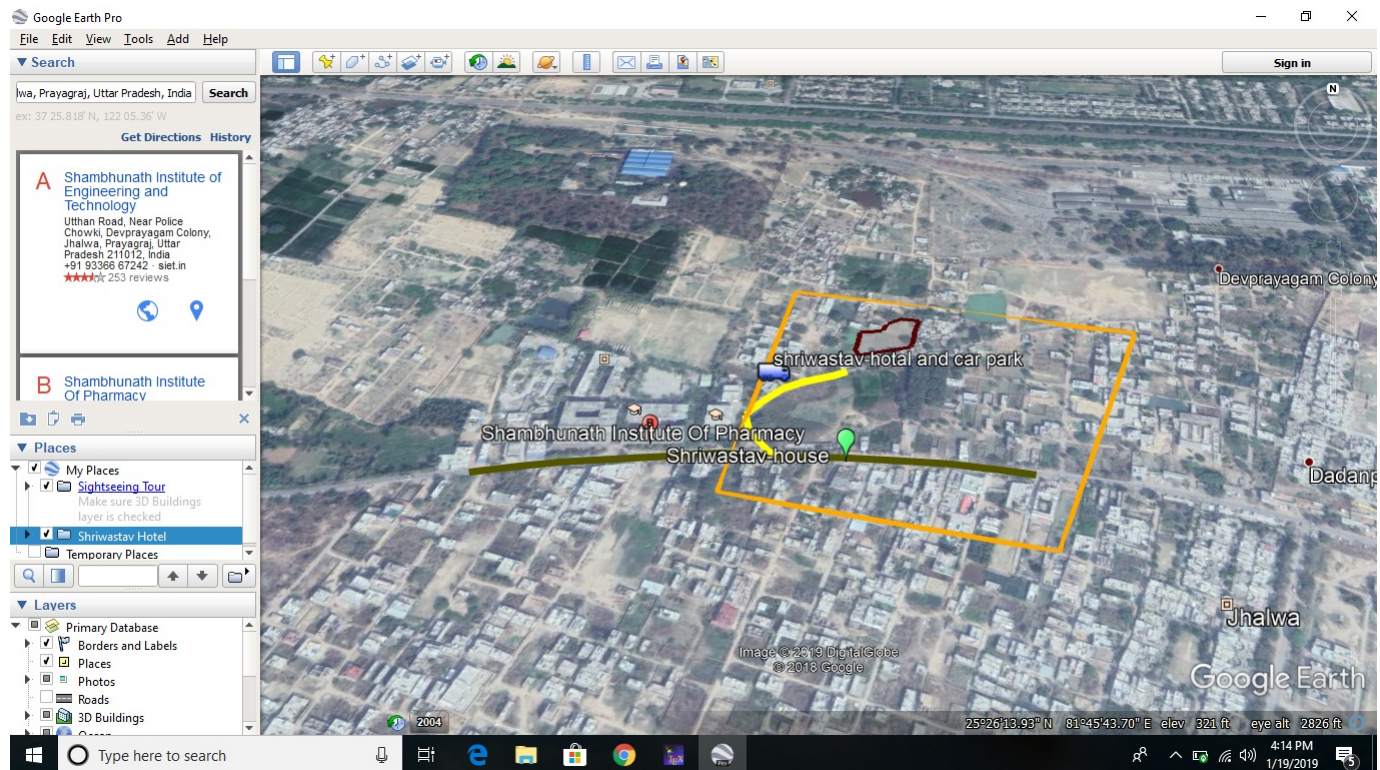
5   Output Screenshots:
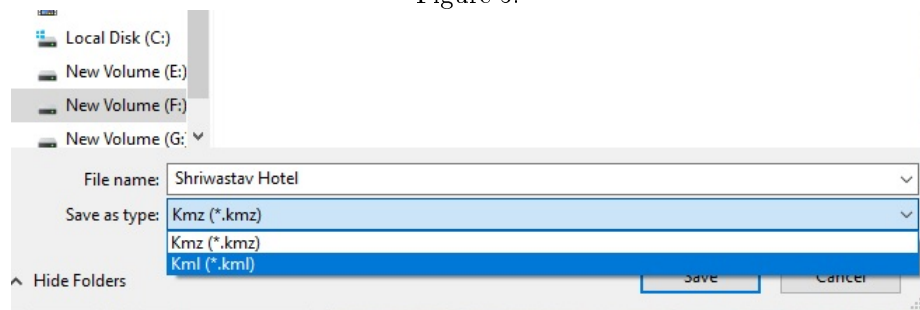
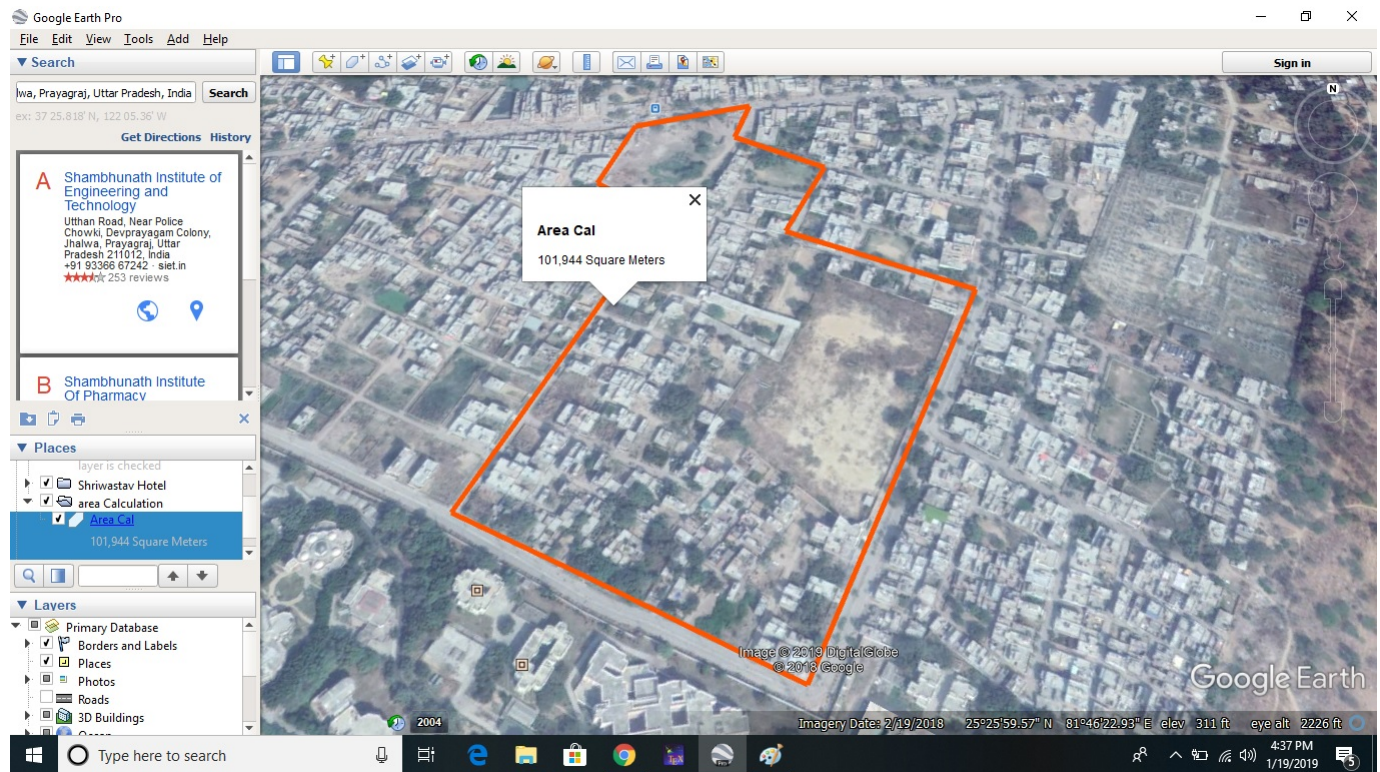## 5.1   Result

Figure 5:

Figure 6: KML file Format

Figure 7: Area Calculation

References

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[2] @articlesheppard2009ethics, title=The ethics of Google Earth: Crossing thresholds from spatial data to landscape visualisation, author=Sheppard, Stephen RJ and Cizek, Petr, journal=Journal of environmental management, volume=90, number=6, pages=2102–2117, year=2009, publisher=Elsevier