



Python | Plotting Google Map using gmpplot package

gmpplot is a matplotlib-like interface to generate the HTML and javascript to render all the data user would like on top of Google Maps.

Command to install **gmpplot** :

```
pip install gmpplot
```

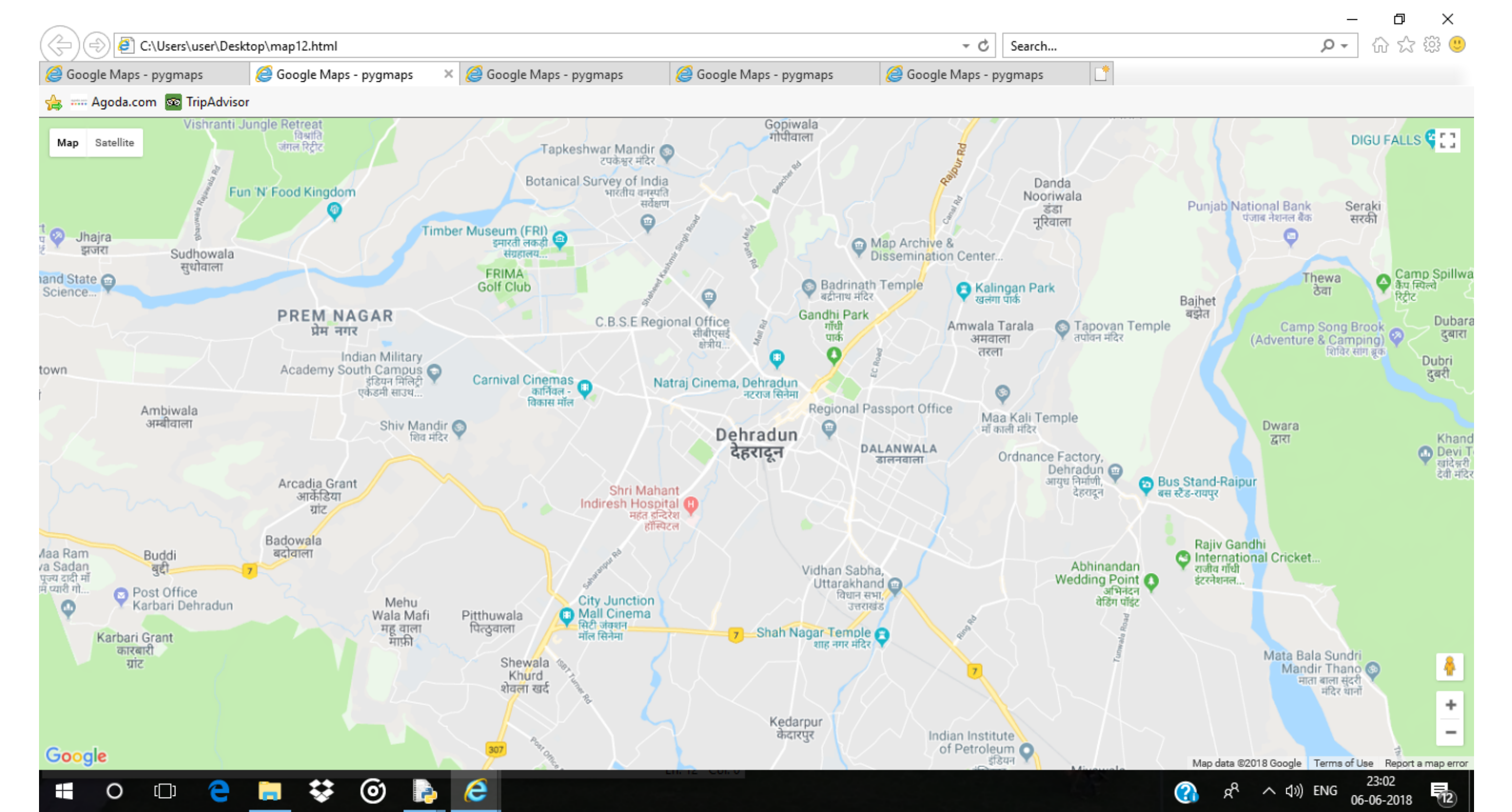
Code #1 : To create a Base Map

```
# import gmpplot package
import gmpplot

# GoogleMapPlotter return Map object
# Pass the center latitude and
# center longitude
gmap1 = gmpplot.GoogleMapPlotter(30.3164945,
                                  78.03219179999999, 13 )

# Pass the absolute path
gmap1.draw( "C:\\Users\\user\\Desktop\\map11.html" )
```

Output :



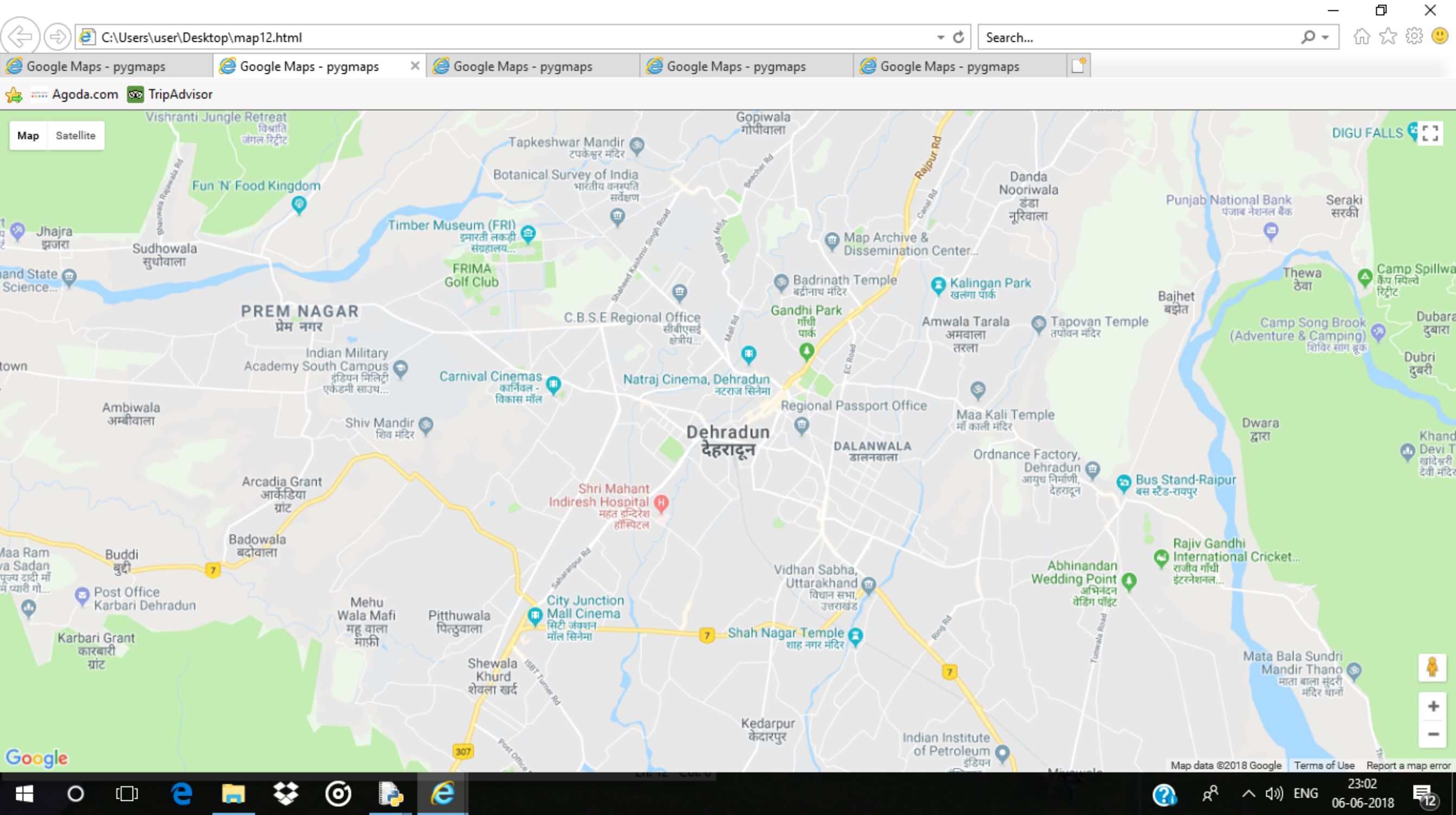
Code #2 : Another method To create a Base map

```
# import gmplot package
import gmplot

# from_geocode method return the
# latitude and longitude of given location .
gmap2 = gmplot.GoogleMapPlotter( "Dehradun, India" )

gmap2.draw( "C:\\Users\\user\\Desktop\\map12.html" )
```

Output :



Code #3 : Scatter points on the google map and draw a line in between them .

```
# import gmplot package
import gmplot

latitude_list = [ 30.3358376, 30.307977, 30.3216419 ]
longitude_list = [ 77.8701919, 78.048457, 78.0413095 ]

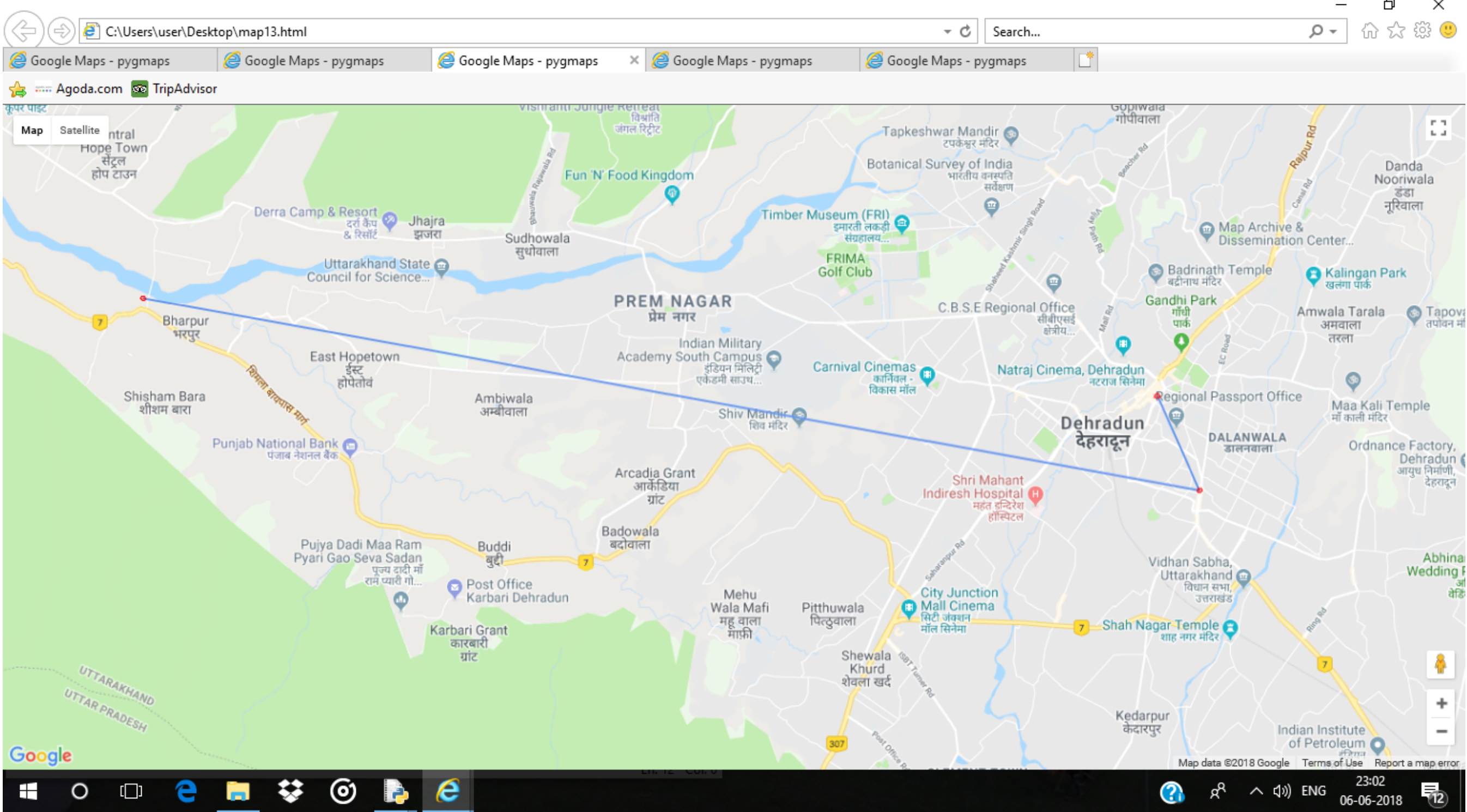
gmap3 = gmplot.GoogleMapPlotter(30.3164945,
                                78.03219179999999, 13)

# scatter method of map object
# scatter points on the google map
gmap3.scatter( latitude_list, longitude_list, '# FF0000',
               size = 40, marker = False )

# Plot method Draw a line in
# between given coordinates
gmap3.plot(latitude_list, longitude_list,
           'cornflowerblue', edge_width = 2.5)

gmap3.draw( "C:\\Users\\user\\Desktop\\map13.html" )
```

Output :



Code #4 : To Show a heat map plot

```
# import gmplot package
import gmplot

latitude_list = [30.3358376, 30.307977, 30.3216419, 30.3427904,
                 30.378598, 30.3548185, 30.3345816, 30.387299,
                 30.3272198, 30.3840597, 30.4158, 30.340426,
                 30.3984348, 30.3431313, 30.273471]

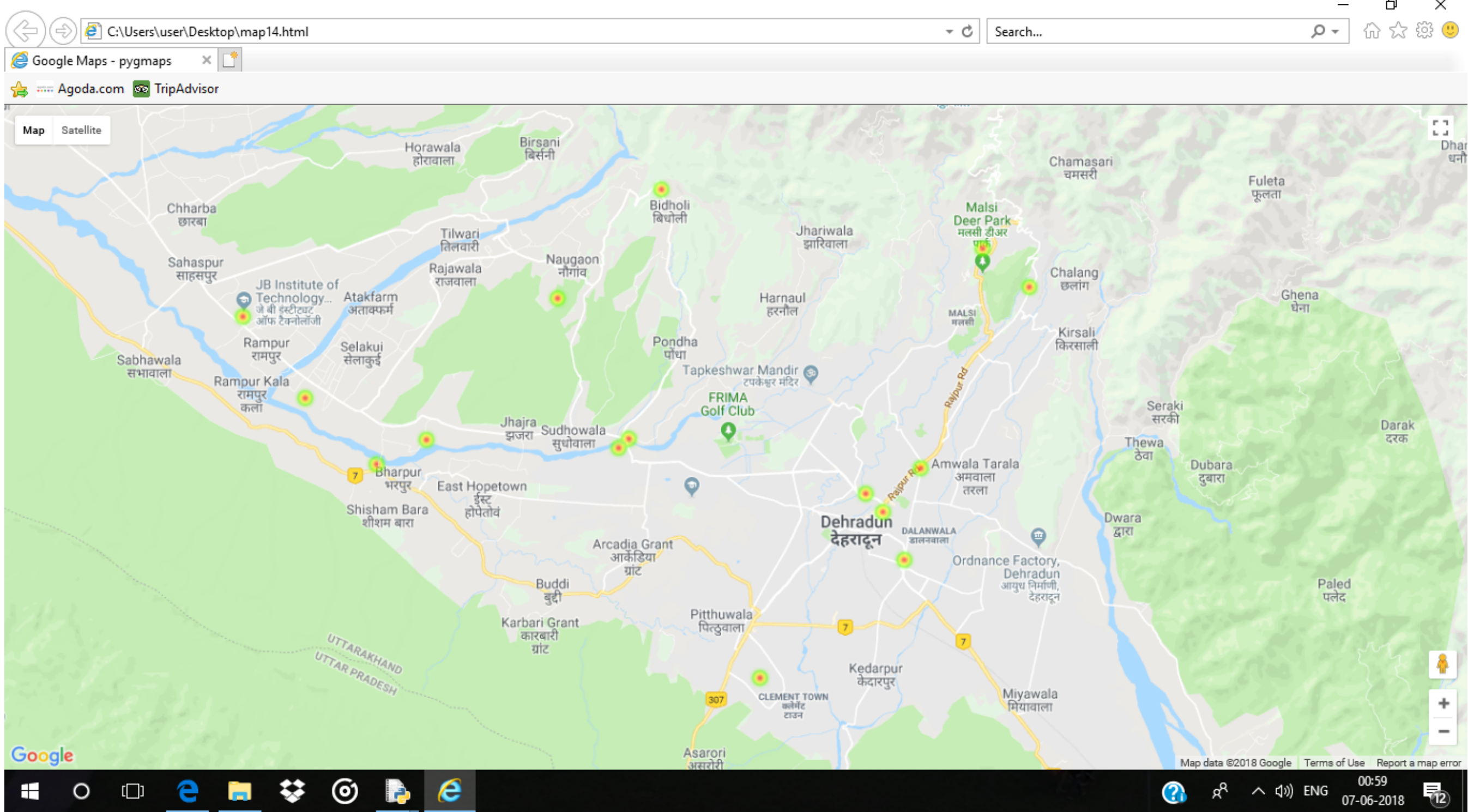
longitude_list = [77.8701919, 78.048457, 78.0413095, 77.886958,
                  77.825396, 77.8460573, 78.0537813, 78.090614,
                  78.0355272, 77.9311923, 77.9663, 77.952092,
                  78.0747887, 77.9555512, 77.9997158]

gmap4 = gmplot.GoogleMapPlotter.from_geocode("Dehradun, India")

# heatmap plot heating Type
# points on the Google map
gmap4.heatmap( latitude_list, longitude_list )

gmap4.draw( "C:\\Users\\user\\Desktop\\map14.html" )
```

Output :



Code #5 : To draw a polygon on the google map

```
# import gmplot package
import gmplot

latitude_list = [ 30.3358376, 30.307977, 30.3216419 ]
longitude_list = [ 77.8701919, 78.048457, 78.0413095 ]

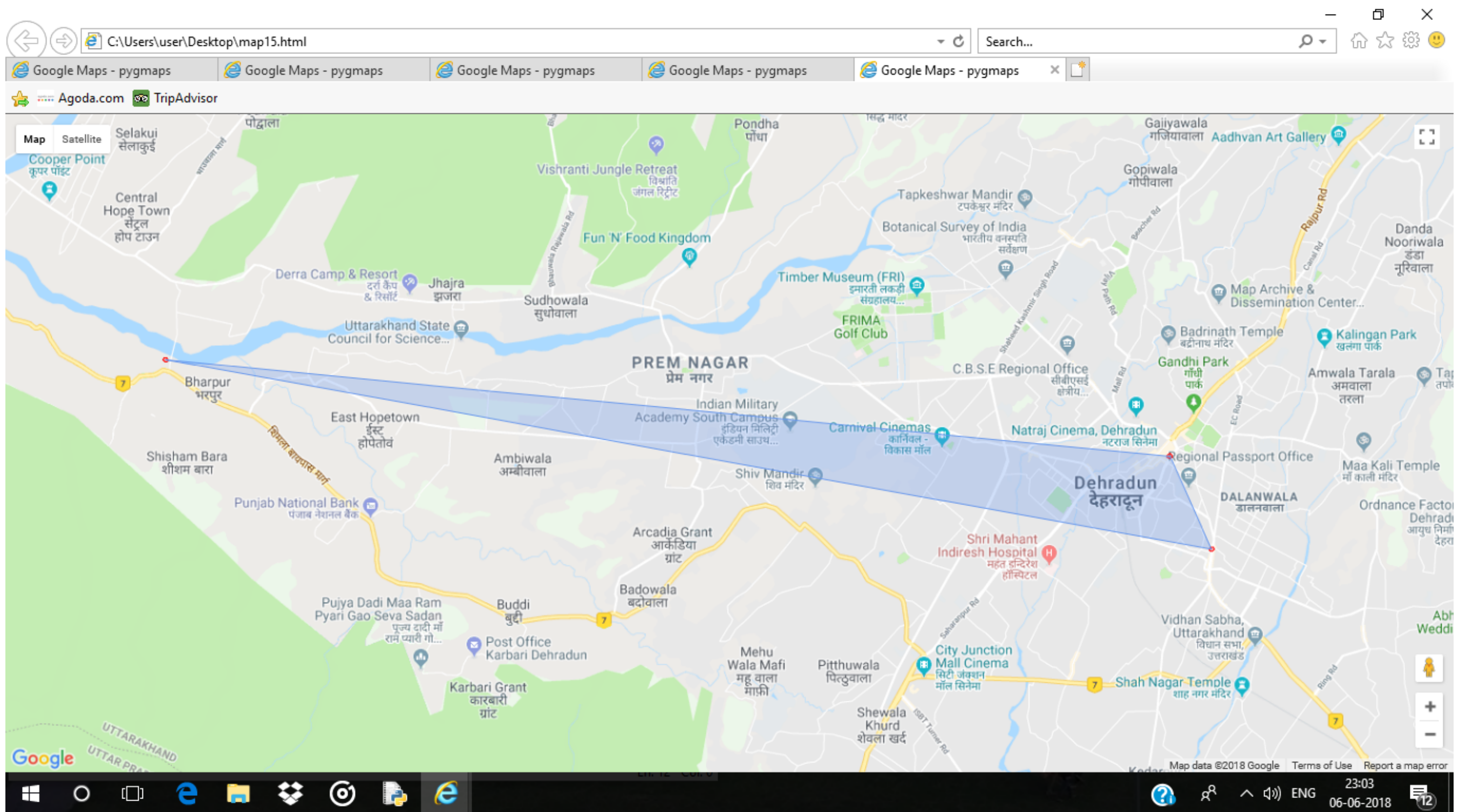
gmap5 = gmplot.GoogleMapPlotter(30.3164945,
                                78.03219179999999, 13)

gmap5.scatter( latitude_list, longitude_list, '# FF0000',
               size = 40, marker = False)

# polygon method Draw a polygon with
# the help of coordinates
gmap5.polygon(latitude_list, longitude_list,
               color = 'cornflowerblue')

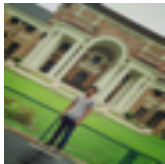
gmap5.draw( "C:\\Users\\user\\Desktop\\map15.html" )
```

Output :



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