GE ASSIGNMET 9(SEM2).py - C:/Users/Harsh/AppData/Local/Programs/Python/Python311/GE ASSIGNMET 9(SEM2).py (3.11.0)

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```
#Create a folium MAP object centred around your HOME state
import folium
import matplotlib.pyplot as plt
#plt.figure(figsize=(4,4))
WorldMap=folium.Map(location=[25.5941,85.1376],width=500,height=300)
WorldMap

#Adjust Zoom feature of the MAP object using various available zoom control functions
import folium
import matplotlib.pyplot as plt
plt.figure(figsize=(4,4))
WorldMap=folium.Map(location=[25.5941,85.1376],
                    zoom_start=12,
                    zoom_control=False,
                    min_zoom=3,max_zoom=20,
                    width=500,height=300)
WorldMap
WorldMap.save('patna.html')


#Add a 'Circular Marker' at your residence location. In 'popup', display the full address of your residence
import folium
import matplotlib.pyplot as plt
plt.figure(figsize=(4,4))
WorldMap=folium.Map(location=[25.5941,85.1376],
                    zoom_start=10,
                    zoom_control=False,
                    min_zoom=5,max_zoom=15,
                    width=500,height=300)
folium.CircleMarker(location=[25.5941,85.1376],radius=50,colour='red',
                    weight=1,fill=True,fill_colour='blue',
                    fill_opacity=0.5,
                    popup='patna,Airport').add_to(WorldMap)
(WorldMap)
```

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```
                    weight=1,fill=True,fill_colour='blue',
                    fill_opacity=0.5,
                    popup='patna,Airport').add_to(WorldMap)
(WorldMap)
WorldMap.save('patna.html')

#Add Multiple Location Markers (with correct icon style)
#Add a location marker at your Residence location
import folium
import matplotlib.pyplot as plt
plt.figure(figsize=(4,4))
WorldMap=folium.Map(location=[25.5950,85.0908],
                    zoom_start=10,
                    zoom_control=False,
                    min_zoom=5,max_zoom=15,
                    width=500,height=300)
folium.Marker(location=[25.5950, 85.0908],
                    popup='',
                    icon=folium.Icon(color='blue',icon_color='white',icon='home')).add_to(WorldMap)
folium.Marker(location=[25.5950, 85.0908],
                    popup='Rajinder Nagar,Patna',
                    icon=folium.Icon(colour='red',icon_color='white',icon='plane')).add_to(WorldMap)
(WorldMap)
WorldMap.save('up.html')


#Add a straight line path between two location markers and calculate distance between them
import folium
import matplotlib.pyplot as plt
plt.figure(figsize=(4,4))
WorldMap=folium.Map(location=[25.5941,85.1376],
                    zoom_start=10,
                    zoom_control=False,
                    min_zoom=5,max_zoom=15,
```

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```
                     zoom_control=False,
                     min_zoom=5,max_zoom=15,
                     width=500,height=300)
folium.Marker(location=[25.5950, 85.0908],
                    popup='',
                    icon=folium.Icon(color='blue',icon_color='white',icon='home')).add_to(WorldMap)
folium.Marker(location=[25.5950, 85.0908],
                    popup='Rajinder Nagar,Patna',
                    icon=folium.Icon(colour='red',icon_color='white',icon='plane')).add_to(WorldMap)
(WorldMap)
WorldMap.save('up.html')


#Add a straight line path between two location markers and calculate distance between them
import folium
import matplotlib.pyplot as plt
plt.figure(figsize=(4,4))
WorldMap=folium.Map(location=[25.5941,85.1376],
                     zoom_start=10,
                     zoom_control=False,
                     min_zoom=5,max_zoom=15,
                     width=500,height=300)
folium.Marker(location=[25.5941,85.1376],
                    popup='New Behsa,Transport nagar,Lucknow,Uttar Pradesh',
                    icon=folium.Icon(colour='blue',icon_color='white',icon='home')).add_to(WorldMap)
folium.Marker(location=[25.6055,85.1500],
                    popup='New Behsa,Transport nagar,Lucknow,Uttar Pradesh',
                    icon=folium.Icon(colour='red',icon_color='white',icon='plane')).add_to(WorldMap)
D=distance=([25.5941,85.1376],[25.6055,85.1500])

folium.PolyLine([[25.5941,85.1376],[25.6055,85.1500]],tooltip=D).add_to(WorldMap)
(WorldMap)
WorldMap.save('an.html')
```

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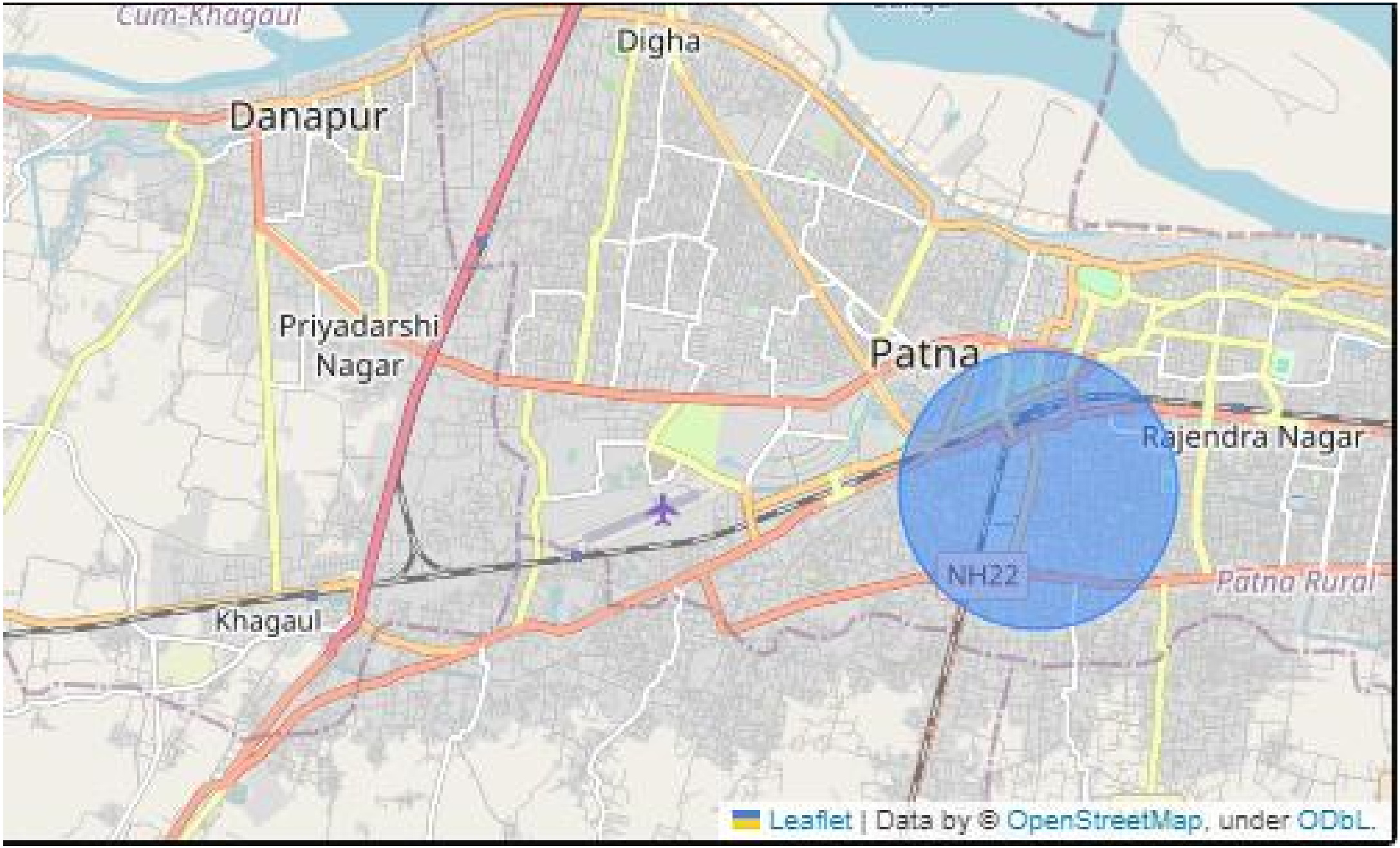
Cum-Khagaul
Digha
Danapur
Priyadarshi
Nagar
Patna
Rajendra Nagar
NH22
Patna Rural
Khagaul
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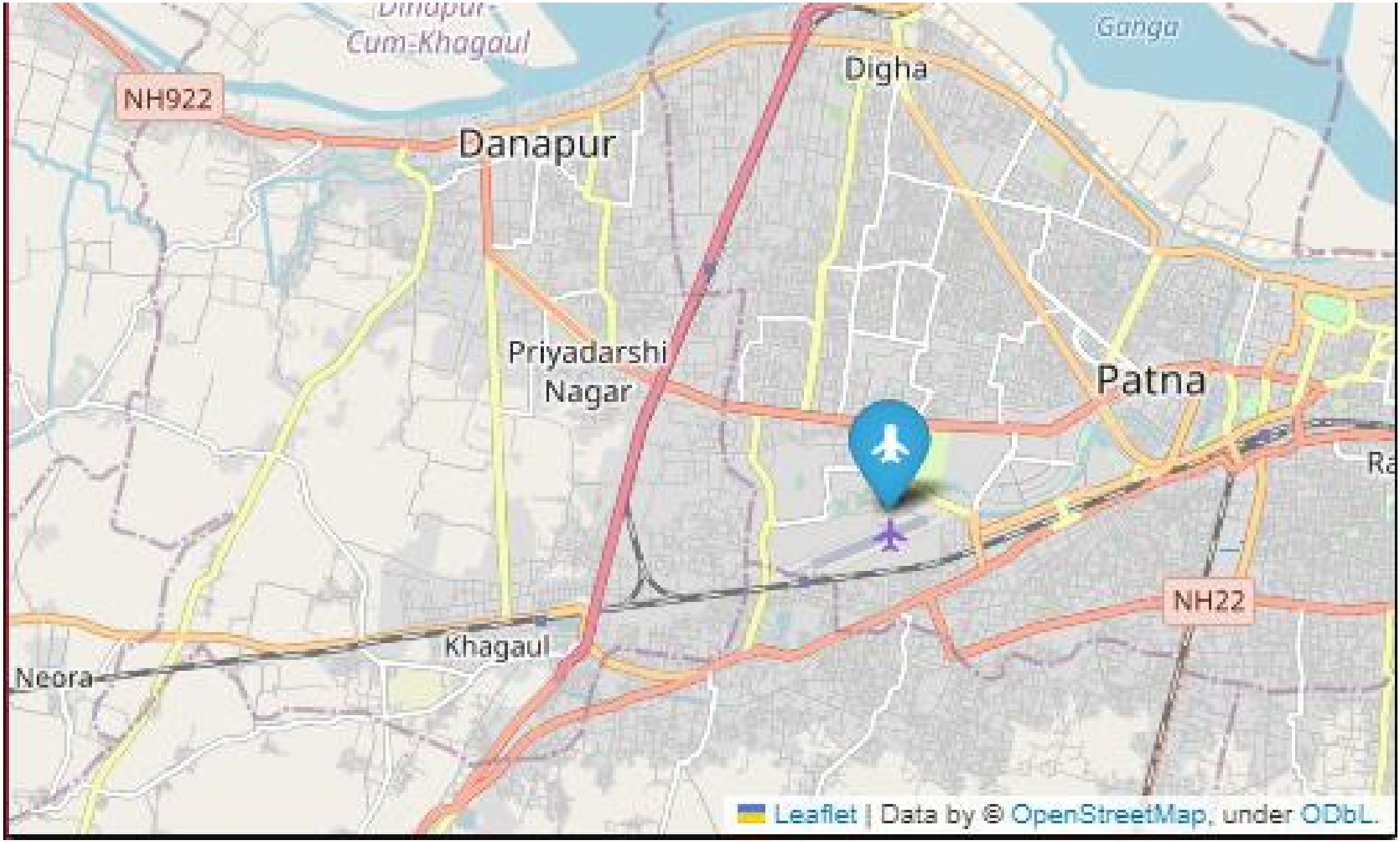
Cum-Khagaul
Ganga
NH922
Digha
Danapur
Priyadarshi
Nagar
Patna
NH22
Khagaul
Neora
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Marine Drive
Ashok Raj Path
Nala Road
Patna
West Boring Canal Road
Atal Path
Bailey Road
Atal Path
Rajendra Nagar
Kumhrar Road
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