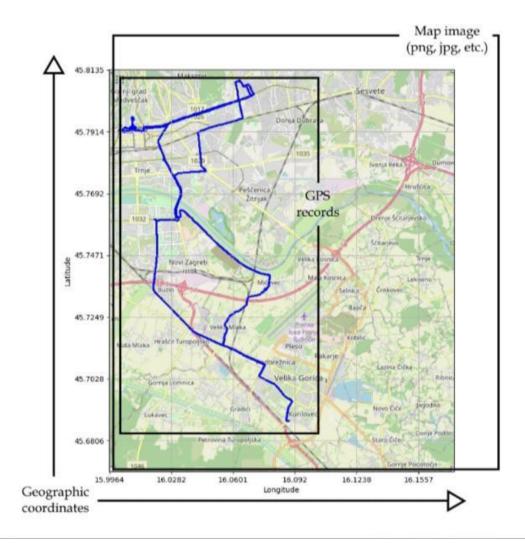
## Develop the python script

Plt.show()

Assignment Date	30 OCTOBER 2022
Team ID	PNT2022TMID07810
Project Name	IOT based child safety Gadget monitoring and
	notification
Maximum Marks	4 Marks

```
Import pandas as pd
Import numpy as np
Import matplotlib.pyplot as plt
From PIL import Image, ImageDraw
Data_path = 'data.csv'
Data = pd.read_csv(data_path, names=['LATITUDE', 'LONGITUDE'], sep=',')
Gps_data = tuple(zip(data['LATITUDE'].values, data['LONGITUDE'].values))
Image = Image.open('map.png', 'r') # Load map image.
Img_points = []
For d in gps_data:
  X1, y1 = scale_to_img(d, (image.size[0], image.size[1])) # Convert GPS coordinates to image
coordinates.
  Img_points.append((x1, y1))
Draw = ImageDraw.Draw(image)
Draw.line(img_points, fill=(255, 0, 0), width=2) # Draw converted records to the map image.
Image.save('resultMap.png')
X_{\text{ticks}} = \text{map}(\text{lambda } x: \text{round}(x, 4), \text{np.linspace}(\text{lon1}, \text{lon2}, \text{num=7}))
Y_ticks = map(lambda x: round(x, 4), np.linspace(lat1, lat2, num=8))
Y_ticks = sorted(y_ticks, reverse=True) # y ticks must be reversed due to conversion to image
coordinates.
Fig, axis1 = plt.subplots(figsize=(10, 10))
Axis1.imshow(plt.imread('resultMap.png')) # Load the image to matplotlib plot.
Axis1.set_xlabel('Longitude')
Axis1.set_ylabel('Latitude')
Axis1.set_xticklabels(x_ticks)
Axis1.set_yticklabels(y_ticks)
Axis1.grid()
```



The final result of GPS visualisation