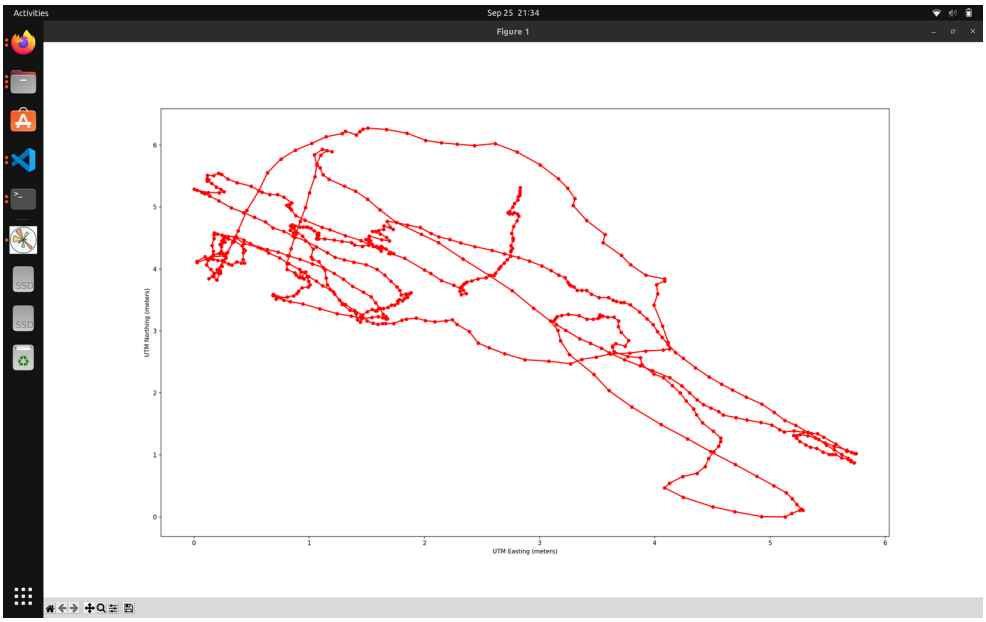
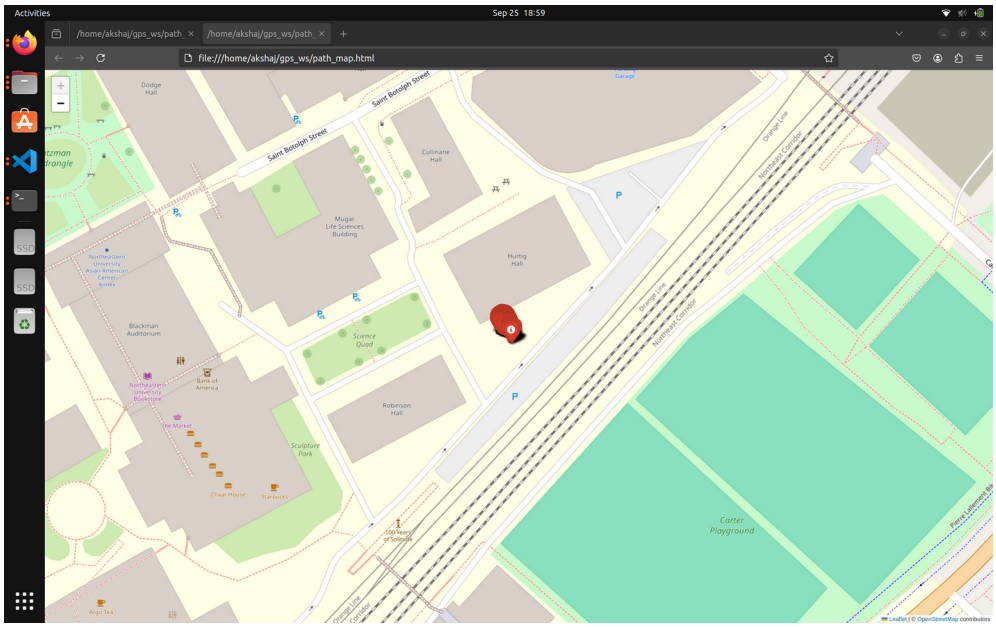
REPORT

Stationary Data Analysis:

This graph plots the UTM Easting to the UTM Northing. It can be seen in the graph that location is not stable while the GPS is stationary. The points are moving in a 5-6m radius.

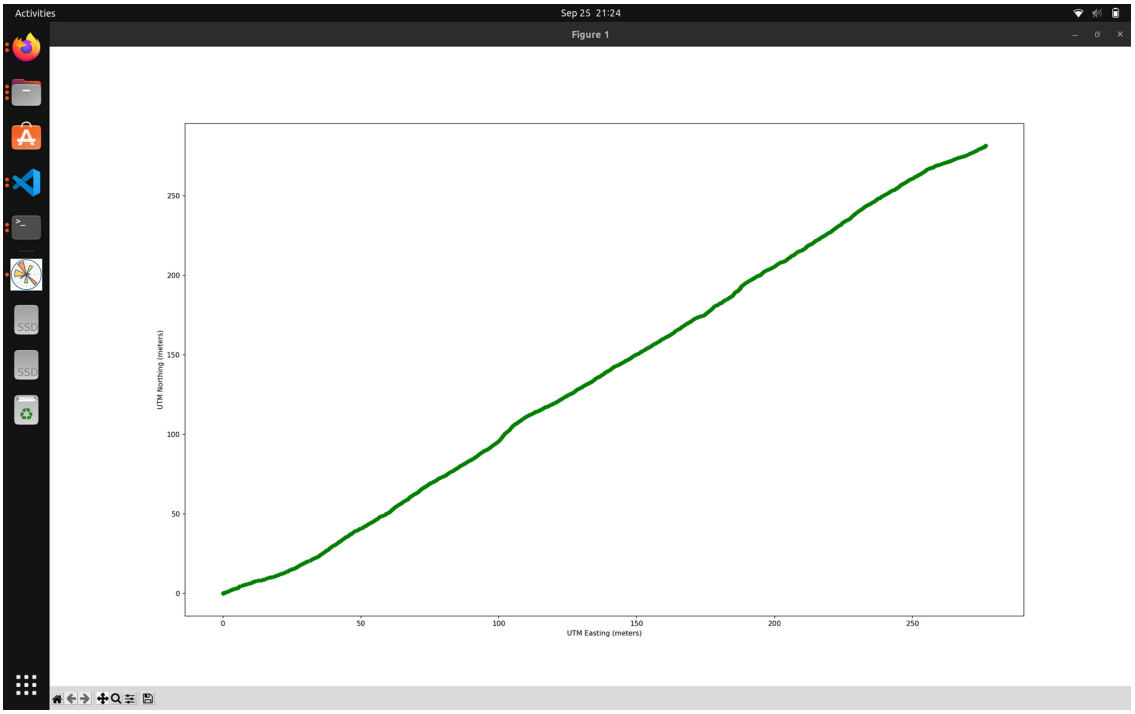


As we can observe on the map, we are not able to get the precise location of the GPS puck but we get a general location within a radius of 5-6m. This inaccuracy can be caused due to surrounding buildings and trees. Other factors could be the position of GPS satellites and the number of satellites connected at the moment.



Walking Data Analysis:

While walking in a straight line, we get a linear graph as I was walking in at a constant speed in a straight line.



While moving, the GPS has more accuracy because it can average out small fluctuations in the position over time which results in an accurate reading. Also the GPS can connect to more satellites while moving to increase the accuracy.