# Synopsis:

The "Road Network Analysis" project is a program designed to analyse and gain insights from road networks represented as undirected graphs. The project provides a set of tools and functionalities for processing road network data, performing graph-based calculations, and helping users understand the properties and characteristics of the network.

This project accomplishes the following objectives:

1. Identify the junction with the highest congestion level.

2. Identify the junction with the lowest congestion level.

3. Determine the shortest route between specified source and destination junctions.

4. Calculate the shortest path from a source junction to a destination junction through an intermediate junction.

5. Uncover the Eulerian path within the road network.

6. Reveal the Hamiltonian cycle in the provided road network.

7. Display all possible paths from a designated source to a given destination.

8. Determine the nth neighbour junction of a specified junction.

Road network data is read from a CSV file, providing flexibility in working with different road network datasets.