*Software Engineering: Programming Project, Spring 2019*

Program Title: ***Route Generation***

Program Design Purpose: To design and implement a program that creates a Route given a list of addresses. XP and Pair Programming.

Addresses are contained in “***Address.dat***” file and has the following format:

House Number, Street Name, City Name, Zip

Ex: 352 Valley Oaks Dr., Winona, 55987

132 Oak Park Dr., Rochester, 55910

754 Preston Avenue, Rochester, 55910

151 Valley Oaks Dr., Winona, 55987

335 George Avenue, Rochester, 55910

172 White Oaks Dr., Winona, 55987

…

Streets have adjacency and are listed in a “***Layout.dat***” file, starting from the NW corner of a zip code.

A layout of for a zip code area is assumed to be a rectangle.

Ex: Vertical Streets: Winona, 55987

Valley Oaks Dr.

…

1St Street

2nd Street

…

Horizontal Streets: Winona, 55987

White Oaks Dr.

Vertical Streets: Rochester, 55910

Preston Avenue

George Avenue

Horizontal Streets: Rochester, 55910

Oak Parks Dr.

Program Audience: Businesses that do delivery. Addresses are collected randomly. In the interest of minimizing drive time – we need to create a meaningful route. City, street layout information is available at start. Given an Address.dat file, and using the Layout.dat file, create a suggested route.

Ex:

Winona, 55987

151 Valley Oaks Dr., Winona, 55987

352 Valley Oaks Dr., Winona, 55987

172 White Oaks Dr., Winona, 55987

Rochester, 55910

754 Preston Avenue, Rochester, 55910

335 George Avenue, Rochester, 55910

132 Oak Park Dr., Rochester, 55910

Complete this program and export for demo and review. Due 1/30.