License:

The license of Gurobi 9.5.2 can be downloaded at the official website of Gurobi: https://www.gurobi.com/

Code instructions:

To run the code smoothly and correctly, please set the variables in the file "MIP\src\MIPmodel.py" as described below. Python 3.7 and Gurobi 9.5.2 are recommended.

1. Set the absolute path of the instance.

```
file_path = ["/home/li/JOC/data/k_2", "/home/li/JOC/data/k_4"] # ,"data/SET_1_k_6",

time_limit = [60]
```

2. Set the running time in minutes.

3. Modify this line to "m, n, t, q, demands, distance = self.load_data()" when running the instances of Class SD.

```
gelass VRPModel():

def __init__(self, file_path, title, output_path=None):
    self.path = file_path
    self.title = title
    self.output_path = output_path

m, n, t, q, demands, distance = self.load_data()
    vrp_dict = self.process_data(m, n, t, demands, distance)
```

Modify this line to "m, n, t, q, demands, distance = self._load_data()" when running the instances of Class P.

4. The results output are saved in the directory at the same level as the file "MIP\src\MIPmodel.py". The "txt" files are stored in different folders based on the

running time and the number of depots.

