# Matplotlib – homework

# **Divya TV**

# **\* Average Fare ($) Per City**

# Average fare in Rural= type Rural 34.62344

# Average fare in Urban= type Urban 24.525772

# Average fare in Suburban= type Suburban 30.970128

Conclusion 1: Rural cities have considerably higher ride fares than urban and higher than suburban cities. The number of drivers available in the city affects the ride fares.

print("Average fare in Rural=", rural\_data.groupby(['type'])['fare'].mean())

print("Average fare in Urban=", urban\_data.groupby(['type'])['fare'].mean())

print("Average fare in Suburban=", suburban\_data.groupby(['type'])['fare'].mean())

# **\* Total Number of Rides Per City**

# ride\_by\_urban= 1625

# ride\_by\_rural= 125

# ride\_by\_suburban= 625

Conclusion 2: Rural cities have lower ride counts. The number of drivers in rural areas affect the number of rides. Also the population in the rural city affect the number of drivers available.

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# \* **Total Number of Drivers Per City**

Conclusion 3: Urban cities have considerably more number of drivers than in rural cities.

Urban driver count= 2405

Suburban driver count= 490

Rural driver count= 78

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