Test Results

➢ Taken from IDLE shell
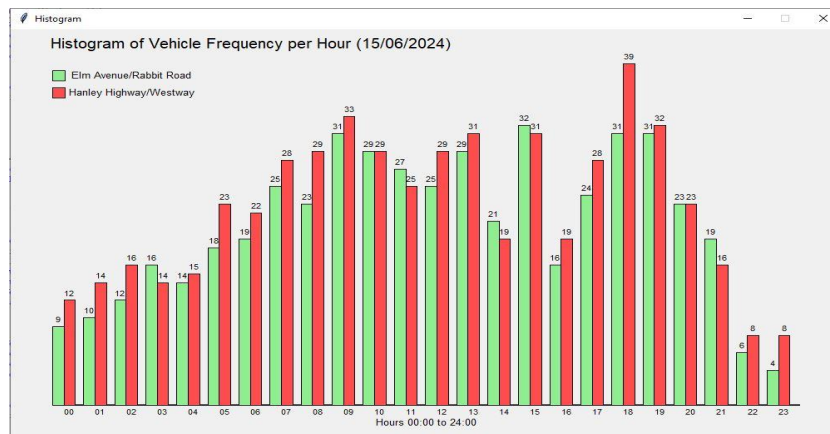
```
Python 3.12.2 (tags/v3.12.2:6abddd9, Feb  6 2024, 21:26:36) [MSC v.1937 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/IIT/sd1 coursework/submission de/w2120058.py
Please enter the day of the survey in the format dd: 3.5
Integer required
Please enter the day of the survey in the format dd:
Please enter the day of the survey in the format dd: 5 . 6
Integer required
Please enter the day of the survey in the format dd: /
Integer required
Please enter the day of the survey in the format dd: 3 2
Out of range - values must be in the range 1 and 31.
Please enter the day of the survey in the format dd: -6
Out of range - values must be in the range 1 and 31.
Please enter the day of the survey in the format dd: 0
Out of range - values must be in the range 1 and 31.
Please enter the day of the survey in the format dd: 4  3
Out of range - values must be in the range 1 and 31.
Please enter the day of the survey in the format dd: 31
Please enter the month of the survey in the format mm: 2
The day is not included in the month. Try another date.
Please enter the day of the survey in the format dd: 29
Please enter the month of the survey in the format mm: 2
Please enter the year of the survey in the format yyyy: 2001
This year is not a leap year. Enter a new date
Please enter the day of the survey in the format dd: 25
Please enter the month of the survey in the format mm:
Please enter the month of the survey in the format mm: 2. 5
Integer required
Please enter the month of the survey in the format mm: /
Integer required
Please enter the month of the survey in the format mm: 13
Out of range - values must be in the range 1 and 12.
Please enter the month of the survey in the format mm: 4
Please enter the year of the survey in the format yyyy: 2025
Out of range - values must be in the range 2000 and 2024.
Please enter the year of the survey in the format yyyy: 2024.5
Integer required
Please enter the year of the survey in the format yyyy: 2024
File not found. Enter a new date
Please enter the day of the survey in the format dd: 15
Please enter the month of the survey in the format mm: 6
Please enter the year of the survey in the format yyyy: 2024
```

```
****************************
data file selected is traffic_data15062024.csv
****************************
The total number of vehicles recorded for this date is 1037
The total number of trucks recorded for this date is 109
The total number of electric vehicles for this date is 368
The total number of two-wheeled vehicles for this date is 401
The total number of Busses leaving Elm Avenue/Rabbit Road heading North is 15
The total number of Vehicles through both junctions not turning left or right is 363
The percentage of total vehicles recorded that are trucks for this date is 11%
the average number of Bikes per hour for this date is 7


The total number of Vehicles recorded as over the speed limit for this date is 205
The total number of vehicles recorded through Elm Avenue/Rabbit Road junction is 494
The total number of vehicles recorded through Hanley Highway/Westway junction is 543
10% of vehicles recorded through Elm Avenue/Rabbit Road are scooters.

The highest number of vehicles in an hour on Hanley Highway/Westway is 39
The most vehicles through Hanley Highway/Westway were recorded between 18:00 and 19:00
The number of hours of rain for this date is 0

Data has been written to 'results.txt'.
```


Histogram of Vehicle Frequency per Hour (15/06/2024)

```
Do you want to select another data file for a different date? Y/N y
Please enter the day of the survey in the format dd: 16
Please enter the month of the survey in the format mm: 6
Please enter the year of the survey in the format yyyy: 2024

****************************
data file selected is traffic_data16062024.csv
****************************
The total number of vehicles recorded for this date is 101
The total number of trucks recorded for this date is 11
The total number of electric vehicles for this date is 29
The total number of two-wheeled vehicles for this date is 29
The total number of Busses leaving Elm Avenue/Rabbit Road heading North is 0
The total number of Vehicles through both junctions not turning left or right is 38
The percentage of total vehicles recorded that are trucks for this date is 11%
the average number of Bikes per hour for this date is 0


The total number of Vehicles recorded as over the speed limit for this date is 20
The total number of vehicles recorded through Elm Avenue/Rabbit Road junction is 52
The total number of vehicles recorded through Hanley Highway/Westway junction is 49
5% of vehicles recorded through Elm Avenue/Rabbit Road are scooters.

The highest number of vehicles in an hour on Hanley Highway/Westway is 5
The most vehicles through Hanley Highway/Westway were recorded between 01:00 and 02:00
The number of hours of rain for this date is 3

Data has been written to 'results.txt'.
```
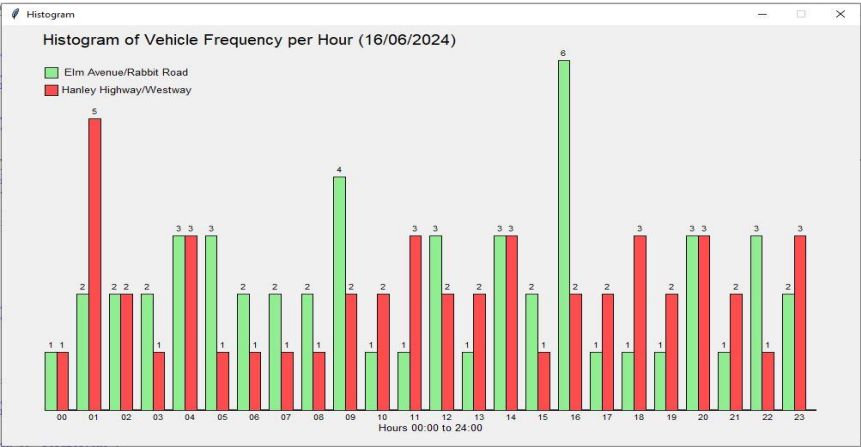

Histogram of Vehicle Frequency per Hour (16/06/2024)

```
Do you want to select another data file for a different date? Y/N y
Please enter the day of the survey in the format dd: 21
Please enter the month of the survey in the format mm: 6
Please enter the year of the survey in the format yyyy: 2024

****************************
data file selected is traffic_data21062024.csv
****************************
The total number of vehicles recorded for this date is 1334
The total number of trucks recorded for this date is 138
The total number of electric vehicles for this date is 442
The total number of two-wheeled vehicles for this date is 503
The total number of Busses leaving Elm Avenue/Rabbit Road heading North is 19
The total number of Vehicles through both junctions not turning left or right is 494
The percentage of total vehicles recorded that are trucks for this date is 10%
the average number of Bikes per hour for this date is 10


The total number of Vehicles recorded as over the speed limit for this date is 250
The total number of vehicles recorded through Elm Avenue/Rabbit Road junction is 651
The total number of vehicles recorded through Hanley Highway/Westway junction is 683
9% of vehicles recorded through Elm Avenue/Rabbit Road are scooters.

The highest number of vehicles in an hour on Hanley Highway/Westway is 71
The most vehicles through Hanley Highway/Westway were recorded between 18:00 and 19:00
The number of hours of rain for this date is 6

Data has been written to 'results.txt'.
```
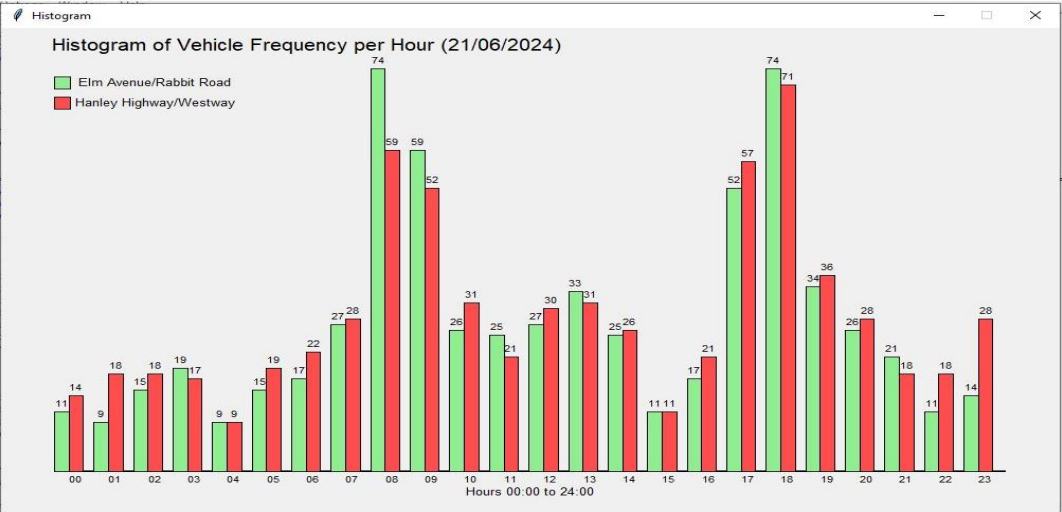

Histogram of Vehicle Frequency per Hour (21/06/2024)

```
Do you want to select another data file for a different date? Y/N n
End of run
>>>
```

- Histograms