

SOFTWARE DEVELOPMENT 1

COURSEWORK

CODE OVERVIEW

G V Ishara Harshana

IIT ID: 20244040

UoW ID: w2121271

Input Validation

01) If a user enters an inappropriate value (not within the range), it gives a message as necessary.

(Day value range: 1 – 31, Month value range: 1 – 12, Year value range: 2000-2024)

```
Please enter the day of the survey in the format DD: 32
Out of range - value must be in the range 1 to 31.
Please enter the day of the survey in the format DD: -2
Out of range - value must be in the range 1 to 31.
Please enter the day of the survey in the format DD: 15
Please enter the month of the survey in the format MM: 13
Out of range - value must be in the range 1 to 12.
Please enter the month of the survey in the format MM: 0
Out of range - value must be in the range 1 to 12.
Please enter the month of the survey in the format MM: 6
Please enter the year of the survey in the format YYYY: 2025
Out of range - value must lie in the range 2000 to 2024.
Please enter the year of the survey in the format YYYY: 1999
Out of range - value must lie in the range 2000 to 2024.
Please enter the year of the survey in the format YYYY: 2024
```

02) If a user enters a single digit instead of double digits, the application automatically converts it into a double digit's value and continues to the next step.

```
Please enter the day of the survey in the format DD: 5
Please enter the month of the survey in the format MM: |
```

03) Until the user enters the right input, the program asks for the right input.

```
Do you want to select another data file for a different date? Y/N > h
Please enter "Y" or "N" > 5
Please enter "Y" or "N" > n
End of run
```

Error Handling

01) If user enters a string as date input, gives a message to enter an integer.

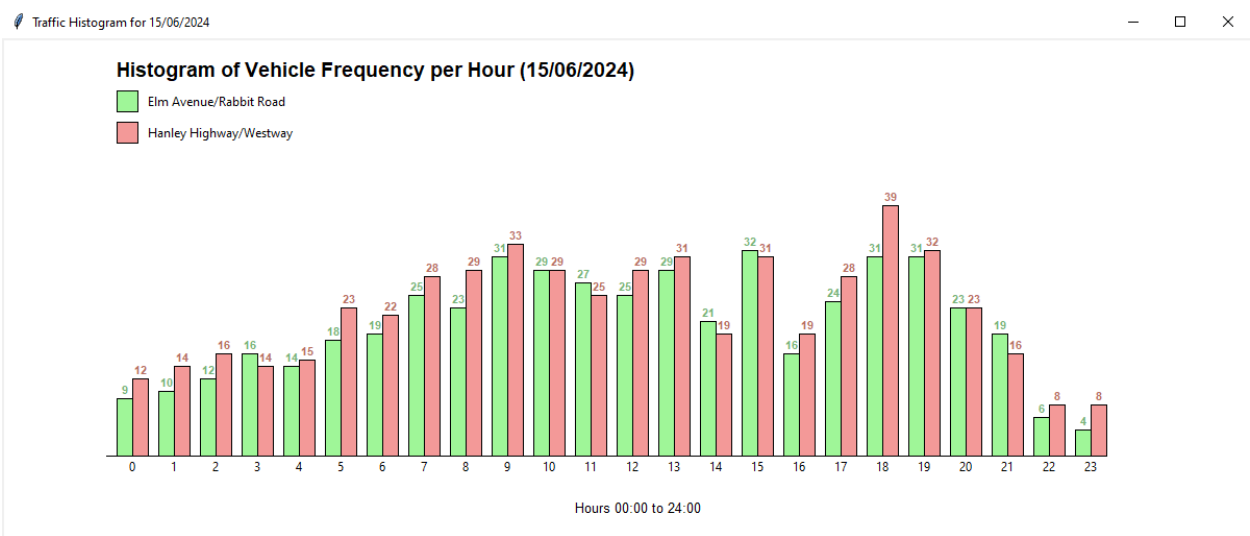
```
Please enter the day of the survey in the format DD: p
Integer required
```

02 If there is no csv file related to the requested date, give a message and ask the user whether to continue or not.

```
Please enter the day of the survey in the format DD: 02
Please enter the month of the survey in the format MM: 06
Please enter the year of the survey in the format YYYY: 2024
File directory not found
Do you want to select another data file for a different date? Y/N > |
```

Sample Input and Output

```
Please enter the day of the survey in the format DD: 15
Please enter the month of the survey in the format MM: 06
Please enter the year of the survey in the format YYYY: 2024
```



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