Test Cases

traffic_data15062024.csv
traffic_data16062024.csv
traffic_data21062024.csv
Day Verification
Month Verification
Year Verification
Loading Multiple Datasets

traffic_data15062024.csv

```
DSC001W-Software-Development-1-CourseWork$ python3 template cw a b c.py
(base) ranuga@ranuga:~
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
The total number of vehicles passing through all junctions for the selected date: 1037
The total number of trucks passing through all junctions for the selected date: 109
The total number of electric vehicles passing through all junctions for the selected date: 368
The number of "two wheeled" vehicles through all junctions for the date (bikes, motorbike, scooters): 401
The total number of busses leaving Elm Avenue/Rabbit Road junction heading north: 0
The total number of vehicles passing through both junctions without turning left or right: 363
The percentage of all vehicles recorded that are Trucks for the selected date (rounded to an integer): 11
The average number of Bicycles per hour for the selected date (rounded to an integer): 7
The total number of vehicles recorded as over the speed limit for the selected date: 47
The total number of vehicles recorded through only Elm Avenue/Rabbit Road junction for the selected date: 494
The total number of vehicles recorded through only Hanley Highway/Westway junction for the selected date: 543
The percentage of vehicles through Elm Avenue/Rabbit Road that are Scooters (rounded to integer): 10
The number of vehicles recorded in the peak (busiest) hour on Hanley Highway/Westway: 39
The total number of hours of rain on the selected date: 0
The peak hour for traffic during the selected date: Between 18:00 and 19:00
Do you want to load another dataset? (Y/N):
```

traffic_data16062024.csv

```
(base) ranuga@ranuga:-/Programming/Projects/University/4COSCOO1W-Software-Development-1-CourseWork$ python3 template_cw_a_b_c.py
Please enter the day of the survey in the format dd: 16
Please enter the month of the survey in the format mm: 06
Please enter the year of the survey in the format yyyy: 2024
The total number of vehicles passing through all junctions for the selected date: 10
The total number of trucks passing through all junctions for the selected date: 29
The number of "two wheeled" vehicles through all junctions for the date (bikes, motorbike, scooters): 29
The total number of busses leaving Elm Avenue/Rabbit Road junction heading north: 0
The total number of vehicles passing through both junctions without turning left or right: 38
The percentage of all vehicles recorded that are Trucks for the selected date (rounded to an integer): 11
The average number of Bicycles per hour for the selected date (rounded to an integer): 0
The total number of vehicles recorded as over the speed limit for the selected date: 9
The total number of vehicles recorded through only Elm Avenue/Rabbit Road junction for the selected date: 52
The total number of vehicles recorded through only Hanley Highway/Westway junction for the selected date: 49
The percentage of vehicles through Elm Avenue/Rabbit Road that are Scooters (rounded to integer): 5
The number of hours of rain on the selected date: 3
The peak hour for traffic during the selected date: Between 16:00 and 17:00
Do you want to load another dataset? (Y/N):
```

Test Cases 1

traffic_data21062024.csv

```
4COSC001W-Software-Development-1-CourseWork$ python3 template_cw_a_b_c.py
(base) ranuga@ranuga:~/
Please enter the day of the survey in the format dd: 21
Please enter the month of the survey in the format mm: 06
Please enter the year of the survey in the format yyyy: 2024
The total number of vehicles passing through all junctions for the selected date: 1334
The total number of trucks passing through all junctions for the selected date: 138
The total number of electric vehicles passing through all junctions for the selected date: 442
The number of "two wheeled" vehicles through all junctions for the date (bikes, motorbike, scooters): 503
The total number of busses leaving Elm Avenue/Rabbit Road junction heading north: 0
The total number of vehicles passing through both junctions without turning left or right: 494
The percentage of all vehicles recorded that are Trucks for the selected date (rounded to an integer): 10
The average number of Bicycles per hour for the selected date (rounded to an integer): 10
The total number of vehicles recorded as over the speed limit for the selected date: 56
The total number of vehicles recorded through only Elm Avenue/Rabbit Road junction for the selected date: 651
The total number of vehicles recorded through only Hanley Highway/Westway junction for the selected date: 683
The percentage of vehicles through Elm Avenue/Rabbit Road that are Scooters (rounded to integer): 9
The number of vehicles recorded in the peak (busiest) hour on Hanley Highway/Westway: 71
The total number of hours of rain on the selected date: 6
The peak hour for traffic during the selected date: Between 18:00 and 19:00
Do you want to load another dataset? (Y/N):
```

Day Verification

```
(base) ranuga@ranuga:-/Programming/Projects/University/4COSC001W-Software-Development-1-CourseWork$ python3 template_cw_a_b_c.py
Please enter the day of the survey in the format dd: -10
Out of range - values must be in the range 1 and 31.
Please enter the day of the survey in the format dd: []
```

Month Verification

```
(base) ranuga@ranuga:~/Programming/Projects/University/4COSC001W-Software-Development-1-CourseWork$ python3 template_cw_a_b_c.py
Please enter the day of the survey in the format dd: 05
Please enter the month of the survey in the format mm: 24
Out of range - values must be in the range 1 to 12.
Please enter the month of the survey in the format mm:
```

Year Verification

```
(base) ranuga@ranuga:~/Programming/Projects/University/4COSC001W-Software-Development-1-CourseWork$ python3 template_cw_a_b_c.py
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: 1969
Out of range - values must range from 2000 and 2024.
Please enter the year of the survey in the format yyyy:
```

Loading Multiple Datasets

Test Cases 2

```
OSC001W-Software-Development-1-CourseWork$ python3 template_cw_a_b_c.py
(base) ranuga@ranuga:
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
The total number of vehicles passing through all junctions for the selected date: 1037
The total number of trucks passing through all junctions for the selected date: 109
The total number of electric vehicles passing through all junctions for the selected date: 368
The number of "two wheeled" vehicles through all junctions for the date (bikes, motorbike, scooters): 401
The total number of busses leaving Elm Avenue/Rabbit Road junction heading north: 0
The total number of vehicles passing through both junctions without turning left or right: 363
The percentage of all vehicles recorded that are Trucks for the selected date (rounded to an integer): 11
The average number of Bicycles per hour for the selected date (rounded to an integer): 7
The total number of vehicles recorded as over the speed limit for the selected date: 47
The total number of vehicles recorded through only Elm Avenue/Rabbit Road junction for the selected date: 494
 The total number of vehicles recorded through only Hanley Highway/Westway junction for the selected date: 543
 The percentage of vehicles through Elm Avenue/Rabbit Road that are Scooters (rounded to integer): 10
 The number of vehicles recorded in the peak (busiest) hour on Hanley Highway/Westway: 39
 The total number of hours of rain on the selected date: 0
 The peak hour for traffic during the selected date: Between 18:00 and 19:00
 Do you want to load another dataset? (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: 06
Please enter the year of the survey in the format yyyy: 2024
The total number of vehicles passing through all junctions for the selected date: 101
The total number of trucks passing through all junctions for the selected date: 11
The total number of electric vehicles passing through all junctions for the selected date: 29
The number of "two wheeled" vehicles through all junctions for the date (bikes, motorbike, scooters): 29
The total number of busses leaving Elm Avenue/Rabbit Road junction heading north: 0
The total number of vehicles passing through both junctions without turning left or right: 38
The percentage of all vehicles recorded that are Trucks for the selected date (rounded to an integer): 11
The average number of Bicycles per hour for the selected date (rounded to an integer): 0
The total number of vehicles recorded as over the speed limit for the selected date: 9
The total number of vehicles recorded through only Elm Avenue/Rabbit Road junction for the selected date: 52
The total number of vehicles recorded through only Hanley Highway/Westway junction for the selected date: 32
The percentage of vehicles through Elm Avenue/Rabbit Road that are Scooters (rounded to integer): 5
The number of vehicles recorded in the peak (busiest) hour on Hanley Highway/Westway: 5
The total number of hours of rain on the selected date: 3
The peak hour for traffic during the selected date: Between 16:00 and 17:00
 Do you want to load another dataset? (Y/N):
```

Test Cases 3