



# FIT9136 Algorithms and Programming Foundations in Python

## Assignment 2

### USER MANUAL

For assignment 2 we were tasked with creating a system for a Car Purchase Advisor System.

When you run the script, you'll be presented with a main menu. Here are your options:

```
Car Purchase Advisor System
1. Generate Test Data
2. Look for the Nearest Car Retailer
3. Get Car Purchase Advice
4. Place a Car Order
5. Exit
Enter your choice:
```

1. Generate Test Data:  
This option generates random car details and saves them to "stock.txt." It's useful for initializing the system with sample data. **It is recommended to use this before running other features.**
2. Look for the Nearest Car Retailer:  
When selecting this option, the user is prompted to enter a 4-digit postcode to return the nearest retailer.
3. Get Car Purchase Advice: This option allows you to get car purchase advice from a selected car retailer. User will be prompted to enter a retailer id as desired. After which they can choose. The following options that appear as a submenu under this-
  1. Recommend a car from the retailer's stock.
  2. Get a list of all cars in the retailer's stock.
  3. Filter cars by car type (e.g., AWD, RWD, FWD): enter one of the values seen
  4. See probationary licence permitted cars in stock.
  5. Go back to the main menu.
4. Place a Car Order:  
Use this option to create and place a car order with a selected car retailer. The user will be prompted to enter a retailer id and then a car code. The user should input a car code that they obtained from 3.1. otherwise they will get an invalid order.
5. Exit

### References

(n.d.). *Python 3.11.5 documentation*. <https://docs.python.org/3/>

(n.d.). *Re — Regular expression operations*. <https://docs.python.org/3/library/re.html>

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