Your report (which must be a PDF file) should contain:

* **Brief description of the design (3–4 pages) distinguishing between library components (that could be re-used) and client code (that is specific to the scenario described above). This description should explain the rationale behind design decisions.**

The current design of the

* **(Level 1 only) a brief description of the changes that would be required to your library classes to support simulations with the following properties: more types of vehicles; multiple types of fuel with different prices; parking away from the pump during shopping; vehicles breaking down during the simulation (0.5 page).**

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* **Diagram of the class hierarchy (which may be hand drawn and scanned) using UML notation (1–2 pages);**
* **(Level 1 only) a sequence diagram for one of the main scenarios in the simulation (1 page); • the results of the simulations in tabular form;**
* **a brief (< 0.5 page) discussion of the results and their implications;**
* **Complete listing of your source code as PDF files (which can be generated by opening the files in WordPad or NotePad and using the ‘Print’ command as described above);**
* **Instructions on how to build and run the program.**

The report should clearly state whether your submission is Level 1 or Level 2, and which group the submission is from. You may use any compiler or development environment you like to develop the program but the submitt