



## Java Project Specifications – 2009/10

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This project caters for all the requirements as set by the MATSEC syllabus concerning IT Advanced level and/or Computing Intermediate. In the case of IT Advanced this project will be split up into two separate projects<sup>1</sup>, where the second project would build up on the first one.

The end result of this project will consist of a phonebook (database) where the user can:

- Add, edit or display an entry (basic data manipulation)
- Writing/reading to/from a file (text file)
- Application of sorting and searching algorithms to further enhance data manipulation tools

The details of each contact stored in the database should include at least the following data fields: Name, Surname, ID, Telephone Number and Town.

Students would need to create a menu consisting of the following entries<sup>2</sup>:

0. Exit this program
1. Add new entry
2. Edit entry
3. Display all entries in phonebook
4. Delete entry
5. Save entries to file
6. Read entries from file
7. Look up telephone number
8. Sort List by Surname

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<sup>1</sup> Ask your lecturer for further clarification

<sup>2</sup> Students are free to alter order of menu entries!



At least 2 classes should be created, that is, the main class as well as a method class. Main class will execute the program whilst the method class will include all setters and getters to be used in the program as well as other methods student deem fit to use.

As regards searching and sorting, a linear search algorithm and a bubble sort algorithm should be used.

Further information regarding documentation and deadline for submission of projects will be given in due course.

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