# Assignment 6 – Binary Search Trees

Write a menu controlled program using a suitable Binary Search Tree data structure to store your mobile phone address book. Each entry in your address book has the following information: first name, surname, and telephone number. The application allows the following actions to be taken by the user:

**1) clear the address book**

**2) add new entry to the address book**

**3) remove an entry from the address book**

**4) search the address book for an entry by letter – all entries’ surnames beginning with this letter are displayed.**

**5) search the address book for an entry by surname and display all the details about that entry.**

**6) exit from the application**

Marks will be attributed to the use of functions for each task that is encountered.

Deadline: **Upload your solution to Moodle on or before February 12th 2016 at 5pm. Sign off during your practical on the week beginning February 8th 2016.**

Please have the following available for collection during your practical session:

1. The working version of the above.
2. A verbal explanation of the programs outcome, if requested.
3. Take the appropriate steps to backup your work at all times. Remember, PCs and Servers do fail and lose data.
4. Deadline exceptions can only be made in special circumstances (e.g. provide sick cert).