**Assignment 3 - Binary Search Trees**

H.Dip in Software Development

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 methods for each task that is encountered.

Deadline: **Sign off during your practical on April 3rd 2020.**

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).