

## **File Handling Exercises**

### **Project A: Password Program**

1. Create a program that will ask a user for their real name, username and password (don't type in your real password!!). The data should be stored in a file called 'users.txt'.
2. Create a second program that will print out the full list of all usernames (but not real names or passwords)
3. Create a third program that will allow the user to type in a username. The program will either print out that user's real name OR print out a message that the user was not found.
4. Adapt the third program so that if the user is in the list then the program will ask for the password. If the password matches the program should display a message that says "Logged in". If the password doesn't match then the program should display a suitable error message and then end.

### **Project B: Staff List**

5. Create a text file with many records. Each record should have the name of a member of staff and their main subject (if they teach more than one, then just pick one)
6. Create a program that will ask the user to type in a subject and will display a list of all the teachers for that subject
7. Adapt the program so that the user has a choice of entering the subject, or the teacher name. If they enter the subject, display all the teachers. If they enter a teacher, it should display their subject.

### **Project C: Behaviour Points**

8. Create a program that will ask for a reason, and a number of points (positive or negative) and record that in a file. The file is only for one student.
9. Add a menu to the program so that the user can view all of the positive points, or all of the negative points.
10. Display the total number of points for that user
11. Amend the program so that the program will write the student name, reason and points to the file. The program should then ask for a student and calculate just that student's total and display just that student's positive and negative points.