

## Worksheet 5 Writing to a file

### Task 1

1. Write a simple program that will ask for your first name, then your last name and then your date of birth. The program should then write all three values to a file, each value separated by a comma.
2. Adapt your previous program so that it will write each value to a new line.
3. Write a program that will use a loop to ask for 5 names. Enter the names of 5 of your classmates. Each name should be stored on a new line.
4. Write a program to store information about the people in your class. First it should ask how many people you want to collect data for. The program should use a loop to ask for each person's name, favourite band and favourite food. The data should be stored in a file with each value separated by a comma and with each person's details on a new line.

The program should then close the file, reopen it for reading and print out all the records in the file.

What will happen if the user enters a non-numeric value for the number of people?

5. Adapt the previous program so that instead of asking how many friends you want to store, the program will keep asking until enter the name "STOP".

### Extension

6. Write another program that will interrogate the data about your friends. It should ask you to choose a band and then list the names of all the friends from the file who like that band.

7. Adapt the previous program to allow the user to select whether they want to search by favourite band or by favourite food.

## Task 2 Appending data to a file

8. Write a simple program that will create a completely new file for storing high scores. The program should ask you to enter your name, the date and your high score. Each value should be separated by a comma.
9. Amend the program, if necessary, so that will let you add a new highscore to your file without overwriting any previous high scores. Each record should be stored on a new line in the text file.
10. Adapt your program from question 2 so that the once you have entered a high score you will be asked if you want to add another one. If you say yes then the program should run again.
11. By using the programs you have already written, create one single program with the following menu options:
  1. Display High Scores
  2. Add A New High Score
  3. Clear All High Scores
  4. Quit

The program should continue until the user chooses option **4**.

### Extension

12. Add another option so that the user can see just the highest high score.

13. Alter the new option to show the 3 highest scores, in the right order.