**Complete the challenges in order of complexity**

**Averages**

Make a program that asks the user for a series of numbers until they either want to output the average or quit the program.

**Extensions:**

1. Expand the program to print the median and mode averages also

2. Include options so that if the user wants to, they can save their list of numbers to a text file and read them back out later on.

**Basic lists**

Make a program that lets a user input a series of names into a list. The program should then ask the user whether they want to print out the list in the original order, or in reverse.

**Extensions:**

1. Enable the user to choose what number item in the list they want to print out

2. Enable the user to only print out a ‘slice’ of the list (eg item three to item nine only)

3. Enable the user to remove any items of the list that they want to

4. Enable the user to save their list to a file for later, and also enable them to load it back up again too

5. ‘Clean’ the list by making all the items lowercase.

**Change Return Program**

The user enters a cost and then the amount of money given. You should write a program that works out what denominations of change should be given in pounds, 50p, 20p, 10p etc.

**Extensions:**

1. The computer randomly generates a price (pounds and pence) and you enter a payment value it then calculates the change.