# Worksheet 18 – lists and menus

1. List research.

Write code for:

* Range of indexes
* Does an item exists in the list?
* List length
* Append an item
* Delete an item (del)
* Join two lists together.

Make use of menus and functions.

IDEAS:

Maybe you could ask the user for a list of colours, allow them to rearrange them, edit any spelling mistakes, delete colours, write them out on screen, etc.

Or it could be a list of pokemon, or top steam games, etc.

Shopping list (can you add duplicate items?), a note taking list, a TO DO list (you can check items as completed)

2. Write a program that allows a user to add numbers to a list. When they are finished, show them:

* a sum of all the numbers entered
* the largest number
* the smallest number

3. Write a program that will allow a user to enter strings into a list. Remove any duplicates. Then display the list.

4. Add a function to the above program. Allow the user to enter a number, show all elements from the list that have a string length longer than that number.

5. Investigate 2D arrays (2D lists) in python. Can you display a grid of numbers:

|  |  |  |
| --- | --- | --- |
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |

Using a 2D array?