**Lesson 5b List - For loop**

Lesson 1 - List Exercises:

1. Write a function that finds the largest of a list of numbers. Set up the list as the first line in a function.

Tip: create a variable called maximum, and **compare** every value in the list with maximum.

Extention:

1. Write a function that finds the average of a list of numbers.

Tip: You will need to create a running total and set it to zero before you start.

1. Write a function which finds all the words beginning with ’s’ in a list and prints them out. It also should say how many words it has found beginning with 's'. Again, set up the list in the first line of the program.

**Lesson2 – Practice Questions:**

1. Create the list below (Ignore if completed in Yr 9 – move to Q2):

animalKingdom = ['ant', 'bee', 'cat', 'adder', 'snake']

1. Print the length of the entire list
2. Add ‘cheetah’ in-between ‘adder’ and ‘snake’
3. Delete cat from the list and replace it with Lion
4. Without using insert, add donkey to the end of the list
5. Print the length of the new list?
6. Write a program that will ask a user for the number (n) of food items they will like to add to a shopping list. Then allow the user to enter food items n number of times. Print out the shopping list.
7. Improve Q2 above to ask the user if there are any names they will like to be deleted from the list. Delete the name and print out the new shopping list.
8. Task is in several stages – read all parts before you begin:

* Using a loop, write a program that will ask a user to enter six different cars.
* Add each car to a list called cars’.
* Print the list out on the screen.
* Extend your program to ask the user whether they would like the list printed out in the original order or in reverse order.
* Extend your program further to ask the user to choose a number between 1 and 6. Print out that item in the list and note that zero is an invalid input.