**Linked lists**

1.Provide the foundation of which other data structures?

2.A linked list consists of what?

3. How does a linked list keep track of the front of the linked list and next free space available?

4. By adding an extra pointer to a linked list what can be achieved?

5. What is a circular linked list?

6. Which two implementations do you need to be aware of with linked lists?

7. If you use an array to store the linked list how does that affect the storage of the data in memory?

8. What are the advantages of using an object orientated approach to implement a linked list in terms of memory usage?

9.Why is a linked list known as dynamic data structure ?

10. Give 3 examples of common uses of linked lists?

11.Which 3 actions can be performed on a linked list?

12. Write down the 5 steps involved in adding an item to a linked list

13. Write down the steps involved in deleting an item to a linked list

14. Write down the steps involved in traversing a linked list

Check your answers by watching back the videos 5 and 8 of the slr 15 data structures playlist, make any necessary corrections.

15. Now on the “linked list” teams assignment download the “linked list with objects”.py file. Open it in idle and in pairs / threes if needed talk through / walk through the general steps and see how that compares for adding, deleting and traversing a linked list.

Is this implementation easy to follow?

16. Try the same for the same for the array implementation py file and walk through the same process.