Activity about Singly linked list

1. What is a singly linked list, and how does it differ from an array?

Singly has a first node, and it's called the head, and the last node is a pointer to set a null or none in Python to mark the end. So the difference between a singly linked list and an array is that the singly linked list is like a treasure hunt; each clue, or node, tells you where the next clue is until you reach the end.

2. When would you prefer a linked list over an array, and vice versa?

For me, I would prefer a linked list when I am adding an element because you can add a new node without affecting the others. I would prefer an array when I need fast or direct access to elements by index or number of items because it is easy to manage.

3. How are linked lists used in real-world applications (e.g., browser history, undo functionality)?

Linked lists are widely used in real-world applications because they allow easy changes to data, such as inserting or removing elements. For example, in a music or video playlist, you can easily add, remove, or rearrange items.

4. Cite your reference/s

Malik, D. S. (2010). *Data Structures Using C++* (2nd ed.). Course Technology.

Weiss, M. A. (2013). *Data Structures and Algorithm Analysis in C++* (4th ed.). Pearson.