**Activity about Singly Linked List**

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

* *An array stores elements in a fixed, continuous block of memory with index-based access, while a singly linked list connects dynamically allocated nodes where each node points to the next one, allowing flexible insertion and deletion but no random access.*

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

* *I preferred to use a****linked list****for dynamic data with frequent modifications, and an****array****when I need fast access and a fixed or predictable size.*

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

* *GPS navigation systems- Linked lists can be used to store and manage a list of locations and routes, allowing users to easily navigate to their desired destination.*
* *. Robotics- Linked lists can be used to implement control systems for robots, allowing them to navigate and interact with their environment.*

1. Cite your reference/s

* *Admin. (2022, November 9). Difference between Array and Linked List. BYJUS.* [*https://byjus.com/gate/difference-between-array-and-linked-list/*](https://byjus.com/gate/difference-between-array-and-linked-list/)
* *GeeksforGeeks.* [*https://www.geeksforgeeks.org/dsa/applications-of-linked-list-data-structure/*](https://www.geeksforgeeks.org/dsa/applications-of-linked-list-data-structure/)