Lab 2 11/9/2024

Create a inventory with product id , product name and price as a linked list node with 10 products.

* **Create Node:** Creates a new node with the given item.
* **Insert Node:** Inserts a new node at the end of a transaction linked list.
* **Delete Node:** Removes a node from a transaction linked list.
* **Search Node:** Searches for a node with a given item in a transaction linked list.
* Analyse the linked list by printing the most frequently bought products.

Create phonebook with cno , customer name and phone number.

1. Display the phone book as a linked list.
2. Search the customer with cno and count the search.
3. Add a linked list with customer name whom you searched more as favourite linked list.

Represent the polynomials P(x)=4x3+3x2−2x+7 , Q(x)=-13x3+9x2+2x+1 as linked list. Now,

1. Perform addition of the two polynomials.
2. Given a value of x, evaluate the polynomial by iterating over each term and computing the sum of coefficient