Programming Task 2

1. Polynomial addition using Linked list.

   Use a linked list to represent a polynomial.

   Implement a function that adds the coefficient of same variable powers.

   A Polynomial has mainly two fields. exponent and coefficient.

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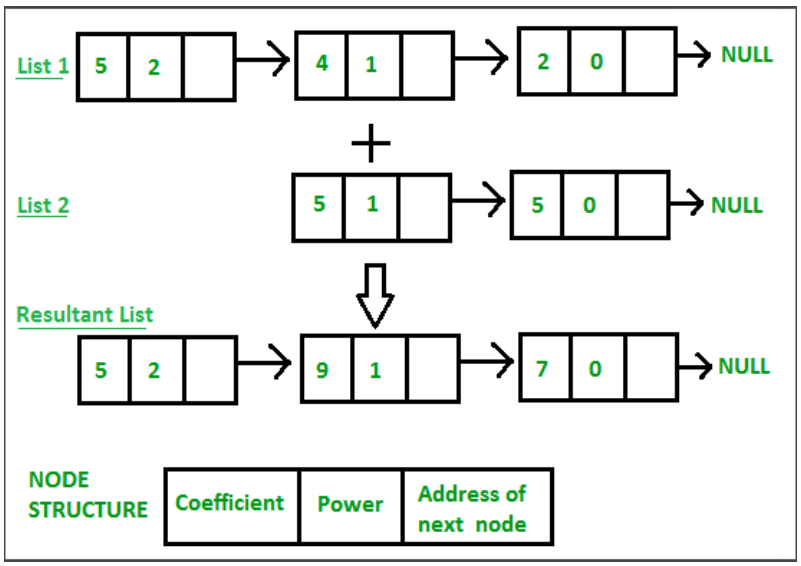
Input:
     1st number = 5x^2 + 4x^1 + 2x^0
     2nd number = -5x^1 - 5x^0
Output:
        5x^2-1x^1-3x^0
Input:
     1st number = 5x^3 + 4x^2 + 2x^0
     2nd number = 5x^1 - 5x^0
Output:
        5x^3 + 4x^2 + 5x^1 - 3x^0
```



   You can use this technique given below to represent a polynomial for passing to a function:

   Each term of the polynomial can be represented as a pair of integers (coefficient, exponent). The polynomial itself is then a list of such pairs like ***[(3,4), (-17,2), (-3,1), (5,0)]*** *for the polynomial 3x^4 - 17x^2 - 3x + 5.*