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**Roll no:**

**SU92-BSSEM-S24-014**

**Subject :**

**DSA (Lab)**

**Section :**

**3A**

**Submitted to:**

**Sir Rasikh**

**Task :**

**Implement functions to insert node at first, last, Nth location, and centre of a doubly linked list. And display in order and display in reverse order.**

The code defines a doubly linked list where each node contains data and pointers to both the next and previous nodes. The doublylinkedlist class has methods to insert nodes at the beginning, end, a specific position, or in the center. It also has methods to display the list in both forward and reverse directions by traversing the next and prev pointers.