

Data Structure - COC 2073L

Lab Plan - 4

Exercise-1:

Following is the declaration of *Node* class and its member functions. Write the complete definitions of these member functions.

```
class Node{
    private:
        int object;
        Node* Next,
        Node* Previous;
    public:
        int GetData();
        void SetData(int data);
        Node* GetNext();
        void SetNext(Node* nextNode);
        Node* GetPrevious ();
        void SetPrevious(Node* prevNode);
};
```

Exercise-2:

Following is the declaration of *DoublyList* class and its member functions. Write the complete definitions of these member functions.

```
class DoublyList
{
    private:
        Node* CurrentLocation;

    public:
        DoublyList();
        void InsertNode(int);
        void DeleteNode(int);
        void PrintList();
};
```

Exercise-3:

Write appropriate *main()* function to test the working of the Doubly-linked list.

Exercise-4:

Implement the circular link list and the josephs problem using circular link list.