## 6. Implement stacks using Linked list

## CODE:

```
nclude <stdio.h>
using namespace std;
struct Node
  int data;
void push(int x)
  struct Node *t;
  t = new Node();
     t->data = x;
      cout << "Stack is Empty\n";</pre>
     t = top;
```

```
top = top->next;
     x = t->data;
void isEmpty()
     cout << "Stack is Empty\n";</pre>
     cout << "Stack is not Empty \n";</pre>
     cout << "Stack is Empty\n";</pre>
     cout << top->data << endl;
void Display()
  p = top;
      p = p->next;
int main()
```

```
cout << "1) Push\n";</pre>
cout << "3)Is Empty\n";</pre>
cout << "4) Peek\n";</pre>
       cout << "Input for insertion: " << endl;</pre>
        push(val);
        pop();
        isEmpty();
        Display();
```

## **OUTPUT:**

```
/Users/amzamani/Desktop/sem3/DS/ds lab/assgn06/"StackLinkedL
1)Push
2)Pop
3) Is Empty
4)Peek
5)Display
6)Exit
Enter choice :
Input for insertion:
10
Enter choice:
Input for insertion:
Enter choice :
Input for insertion:
Enter choice:
5
30
20
10
Enter choice :
4
30
Enter choice :
Stack is not Empty
Enter choice :
5
30
20
10
Enter choice:
6
```