

```

class Stack<T> {

    Node<T> head;
    Node<T> last;
    int size;

    public void push(T element) {
        Node<T> node = new Node<>(element);
        node.next = head;
        head = node;
        size++;
    }

    public void add(T element) {
        Node<T> node = new Node<>(element);
        if (last == null) {
            head=last=node;
        } else {
            last.next = node;
            last=node;
        }
        size++;
    }

    public T pop() {
        Node<T> temp = head;
        if (temp != null) {
            head = temp.next;
            size--;
        }
        return temp.element;
    }

    public void show() {
        if(isEmpty()) {
            System.out.println("stack is empty");
        }
        Node<T> temp = head;
        while (temp != null) {
            System.out.print(temp.element + "\t");
            temp = temp.next;
        }
    }

    public boolean isEmpty() {
        if(size==0)
            return true;
        return false;
    }

    public static class Node<T> {
        T element;
        Node<T> next;
        // Node<T> previous;

        public Node(T element) {
            this.element = element;
        }
    }
}

```

```
public class Main {  
  
    public static void main(String[] args) {  
  
        Stack<Integer> stack = new Stack<>();  
        stack.push(5);  
        stack.push(10);  
        stack.push(15);  
        stack.push(20);  
        stack.show();  
        while(!stack.isEmpty()) {  
            stack.pop();  
        }  
        System.out.println();  
        stack.show();  
  
        stack.add(5);  
        stack.add(10);  
        stack.add(15);  
        stack.add(20);  
        stack.show();  
  
    }  
  
}
```