Question 1  
  
// write a java program to create a singly linked list and display all its elements

public class linkedlist1 {

    static class Node {

        int data;

        Node next;

        Node(int d) {

            data = d;

            next = null;

        }

    }

    public static void main(String args[]) {

        Node first = new Node(12);

        Node second = new Node(23);

        Node third = new Node(24);

        Node fourth = new Node(45);

        first.next = second;

        second.next = third;

        third.next = fourth;

        fourth.next = null;

        Node current = first;

        if(current == null){

            System.out.println("your list is empty");

        }

        else {

            while(current != null){

                System.out.print(current.data + " -> ");

                current = current.next;

            }

            System.out.println("null");

        }

    }

}

Question 2  
  
// write a function to insert a node at the beginning and end of a single linked list by taking input

import java.util.\*;

public class linkedlist2 {

    static class Node{

        int data;

        Node next;

        Node(int d){

            data = d;

            next = null;

        }

    }

    // inserts function at beginning

    public static Node insertAtStart(Node head, int value) {

        Node newNode = new Node(value);

        newNode.next = head;

        return newNode;

    }

    // inserts function at the end

    public static void insertAtEnd(Node head, int value) {

        Node newNode = new Node(value);

        if(head == null) {

            head = newNode;

            return;

        }

        Node current = head;

        while(current.next != null) {

            current = current.next;

        }

        current.next = newNode;

    }

public static void main(String[] args) {

    Scanner scanner = new Scanner(System.in);

    System.out.println("enter your first number");

    int b = scanner.nextInt();

    System.out.println("enter your second number");

    int c = scanner.nextInt();

    Node first = new Node(11);

    Node second = new Node(12);

    Node third = new Node(14);

    Node fourth = new Node(15);

    first.next = second;

    second.next = third;

    third.next = fourth;

    // inserting b at the beginning

    first = insertAtStart(first, b);

    // inserting c at the end

    insertAtEnd(first, c);

    Node current = first;

    if(current == null) {

        System.out.println("list is empty");

    } else {

        while(current != null) {

            System.out.print(current.data + " -> ");

            current = current.next;

        }

    }

}

}

Question 3

//write a function to delete the first node and last node of a linked list

import java.util.\*;

public class linkedlist3 {

    static class Node{

        int data;

        Node next;

        Node(int d){}

    }

}