```
package datastructure;
public class LinkedList {
    Node head;
    public static LinkedList insert(LinkedList list, int data) {
        Node newNode = new Node(data);
        newNode.next = null;
        if (list.head == null) {
            list.head = newNode;
        } else {
            Node lastNode = list.head;
            while (lastNode.next != null) {
                lastNode = lastNode.next;
            lastNode.next = newNode;
        return list;
    }
    public static LinkedList deleteByKey(LinkedList list, int key) {
        System. out. println();
       System.out.println("Delete Element " + key + " from Linked List ");
        Node currentNode = list.head, previousNode = null;
        if (currentNode != null && currentNode.data == key) {
            list.head = currentNode.next;
            System.out.println(key + " found and deleted");
            return list;
        while (currentNode != null && currentNode.data != key) {
```

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previousNode = currentNode;
        currentNode = currentNode.next;
    }
    if (currentNode != null) {
        previousNode.next = currentNode.next;
        System.out.println(key + " found and deleted");
    }
    if (currentNode == null) {
        System.out.println(key + " not found");
    return list;
public static void printList(LinkedList list) {
    Node currentNode = list.head;
    System.out.print("Linked List Elements: ");
    while (currentNode != null) {
        System.out.print(currentNode.data + " ");
        currentNode = currentNode.next;
public static void main(String[] args) {
   LinkedList list = new LinkedList();
    list = insert(list, 4);
    list = insert(list, 1);
    list = insert(list, 3);
    list = insert(list, 8);
```

```
printList(list);
    deleteByKey(list, 1);
    printList(list);
}
```