Write a program in Java to delete the first occurrence of a key in a singly linked list

package practice3;

import java.io.\*;

public class Linked\_list {

Node head;

static class Node

{

int data;

Node next;

Node(int d)

{

data = d;

next = null;

}

}

public static Linked\_list insert(Linked\_list list, int data)

{

Node new\_node = new Node(data);

new\_node.next = null;

if (list.head == null)

{

list.head = new\_node;

}

else

{

Node last = list.head;

while (last.next != null)

{

last = last.next;

}

last.next = new\_node;

}

return list;

}

public static void printList(Linked\_list list)

{

Node currNode = list.head;

System.***out***.print("LinkedList: ");

while (currNode != null)

{

System.***out***.print(currNode.data + " ");

currNode = currNode.next;

}

System.***out***.println();

}

public static Linked\_list deleteByKey(Linked\_list list, int key)

{

Node currNode = list.head, prev = null;

if (currNode != null && currNode.data == key)

{

list.head = currNode.next;

System.***out***.println(key + " found and deleted");

return list;

}

while (currNode != null && currNode.data != key)

{

prev = currNode;

currNode = currNode.next;

}

if (currNode != null)

{

prev.next = currNode.next;

System.***out***.println(key + " found and deleted");

}

if (currNode == null)

{

System.***out***.println(key + " not found");

}

return list;

}

public static void main(String[] args)

{

Linked\_list list = new Linked\_list();

list = *insert*(list, 1);

list = *insert*(list, 2);

list = *insert*(list, 3);

list = *insert*(list, 4);

list = *insert*(list, 5);

list = *insert*(list, 6);

list = *insert*(list, 7);

list = *insert*(list, 8);

*printList*(list);

*deleteByKey*(list, 1);

*printList*(list);

*deleteByKey*(list, 4);

*printList*(list);

*deleteByKey*(list, 10);

*printList*(list);

}

}