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

```
package com.assin.solution;

class ListNode {
   int val;
   ListNode next;

   ListNode(int val) {
      this.val = val;
      this.next = null;
   }
}

public class SiLinkedList {

   public static ListNode deleteNode(ListNode head, int key) {
      if (head == null) {
         return null;
      }

      // If the key to be deleted is at the head
      if (head.val == key) {
         return head.next;
      }

      ListNode prev = head;
      ListNode current = head.next;

      while (current != null) {
         if (current.val == key) {
            prev.next = current.next;
            break;
         }
         prev = current;
         current = current.next;
      }

      return head;
   }

   public static void printList(ListNode head) {
      ListNode current = head;
      while (current != null) {
         System.out.print(current.val + " ");
         current = current.next;
      }
      System.out.println();
   }
```

```
    public static void main(String[] args) {
        ListNode head = new ListNode(4);
        head.next = new ListNode(5);
        head.next.next = new ListNode(1);
        head.next.next.next = new ListNode(9);

        System.out.println("Linked List before deletion:");
        printList(head);

        int key = 5;
        head = deleteNode(head, key);

        System.out.println("Linked List after deleting first occurrence of " + key + ":");
        printList(head);
    }
}
```