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

```
package javaFsd3;

public class LinkedList {
   private Node head;

   private class Node {
      int data;
      Node next;

      Node(int data) {
         this.data = data;
         this.next = null;
      }
   }

   public void deleteFirstOccurrence(int key) {
      if (head == null) {
         return;
      }

      // Check if the key is present at the head
      if (head.data == key) {
         head = head.next;
         return;
      }

      Node current = head;
      Node prev = null;

      // Traverse the list to find the key
      while (current != null && current.data != key) {
         prev = current;
         current = current.next;
      }
```

```
// If key is found, delete the node
        if (current != null) {
            prev.next = current.next;
        }
    }

    public void insert(int data) {
        Node newNode = new Node(data);

        if (head == null) {
            head = newNode;
        } else {
            Node current = head;
            while (current.next != null) {
                current = current.next;
            }
            current.next = newNode;
        }
    }

    public void display() {
        Node current = head;
        while (current != null) {
            System.out.print(current.data + " ");
            current = current.next;
        }
        System.out.println();
    }

    public static void main(String[] args) {
        LinkedList list = new LinkedList();

        // Insert elements into the linked list
        list.insert(20);
        list.insert(40);
        list.insert(60);
        list.insert(80);
        list.insert(90);
        list.insert(60);
```

```
        System.out.println("Original list:");
        list.display();

        // Delete the first occurrence of key 60
        list.deleteFirstOccurrence(60);

        System.out.println("Updated list:");
        list.display();
    }
}
```

Output