Phase-1 Practice Project: Assisted Practice

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

source code:

```
import java.io.*;


@SuppressWarnings("unused")
public class Singlelink {
    Node head;



    class Node {
        int data;
        Node next;
        Node(int d)
        {
            data = d;
            next = null;
        }
    }



    void deleteNode(int key)
    {

        Node temp = head, prev = null;
```

```
    if (temp != null && temp.data == key) {



        head = temp.next;

        return;

    }



    while (temp != null && temp.data != key) {

        prev = temp;

        temp = temp.next;

    }



    if (temp == null)

        return;



    prev.next = temp.next;

}



public void push(int new_data)

{

    Node new_node = new Node(new_data);

    new_node.next = head;

    head = new_node;

}
```

```
public void printList()
{
    Node tnode = head;
    while (tnode != null) {
        System.out.print(tnode.data + " ");
        tnode = tnode.next;
    }
}


public static void main(String[] args)
{
   Singlelink llist = new Singlelink();

    llist.push(7);
    llist.push(1);
    llist.push(3);
    llist.push(2);

    System.out.println("Created Linked List:");
    llist.printList();


    llist.deleteNode(2);

    System.out.println(
```

```
            "\nLinked List after Deletion of 2:");
        llist.printList();
    }
}
```

output: