

ADS MODULE END EXAM

Email: saurabh.mahajan.cmaug25@gmail.com

PRN: 250840320179

Name: Saurabh Anil Mahajan

Q3.

Java Code:

```
class LL {  
    Node head;  
    static class Node {  
        int data;  
        Node next;  
        Node(int d) {  
            data = d;  
            next = null;  
        }  
    }  
  
    void append(int newdata) {  
        if(head == null) {  
            head = new Node(newdata);  
            return;  
        }  
        Node last = head;  
        Node newnode = new Node(newdata);  
        newnode.next = null;  
        while(last.next != null) {  
            last = last.next;  
        }  
        last.next = newnode;  
    }  
}
```

```
}
```

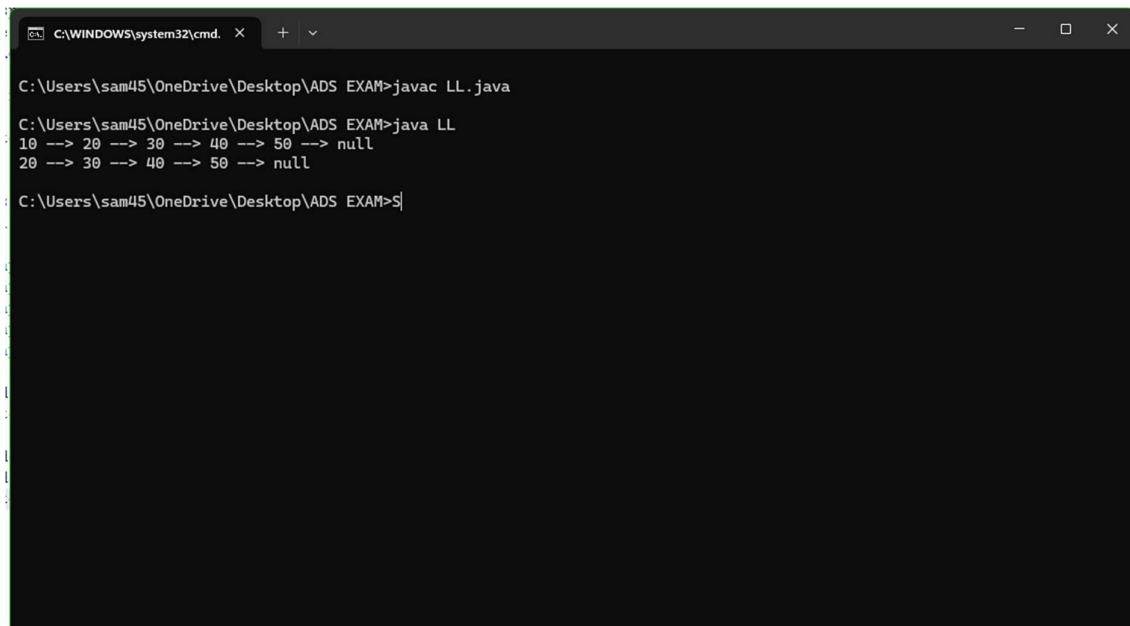
```
void delete(int key){  
    Node temp = head;  
    if(temp != null && temp.data == key){  
        head = temp.next;  
    }  
}
```

```
void display(){  
    Node n = head;  
    while(n != null){  
        System.out.print(n.data + " --> ");  
        n = n.next;  
    }  
    System.out.print("null");  
}
```

```
public static void main(String args[]){  
    LL l1 = new LL();  
  
    l1.append(10);  
    l1.append(20);  
    l1.append(30);  
    l1.append(40);  
    l1.append(50);  
  
    l1.display();  
    System.out.println();  
}
```

```
        l1.delete(10);  
        l1.display();  
        System.out.println();  
    }  
}
```

Output Screenshot:



```
C:\WINDOWS\system32\cmd. X + v  
C:\Users\sam45\OneDrive\Desktop\ADS EXAM>javac LL.java  
C:\Users\sam45\OneDrive\Desktop\ADS EXAM>java LL  
10 --> 20 --> 30 --> 40 --> 50 --> null  
20 --> 30 --> 40 --> 50 --> null  
C:\Users\sam45\OneDrive\Desktop\ADS EXAM>S|
```