**ADS MODULE END EXAM**

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**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);

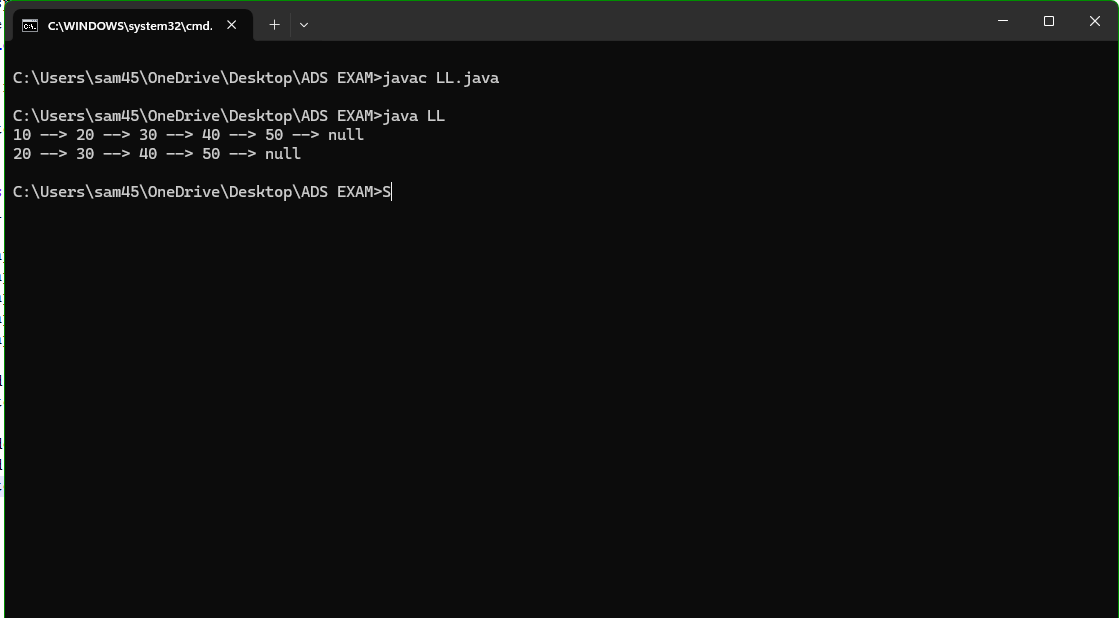
l1.display();

System.out.println();

}

}

**Output Screenshot:**

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