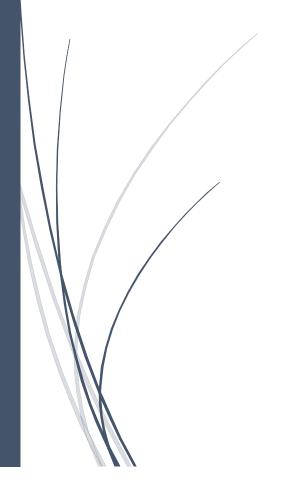
9/1/2024

# Data Structures

Lab 2 Exercise Solutions

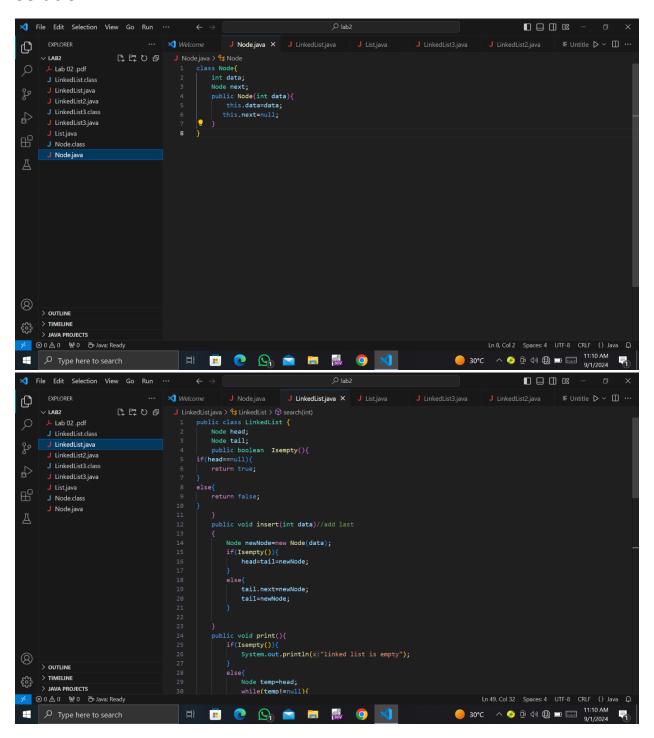


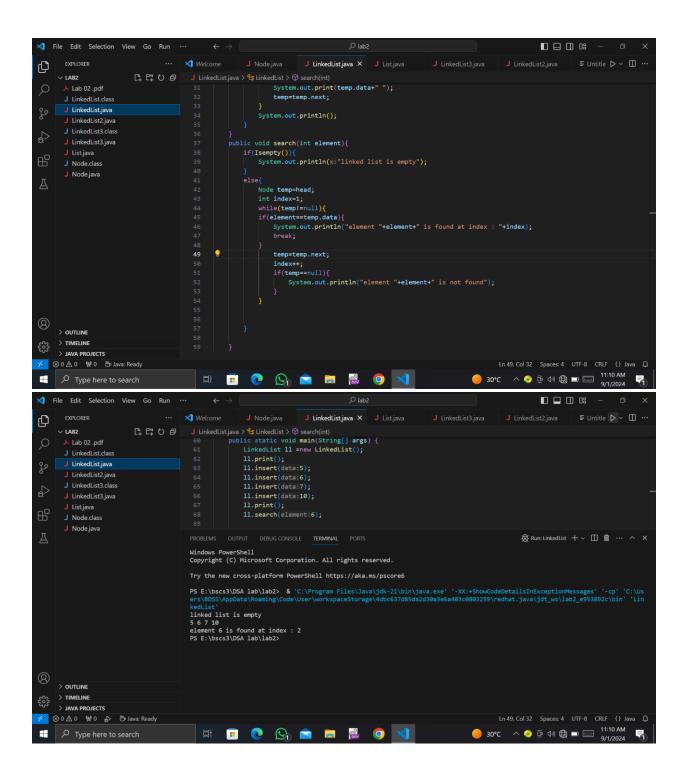
Uzair Ali S/O Yar Muhammad Memon B-S CS III Section A 023-23-0350

To: Ma'm Marina Rajpoot

# Task #1

# **Solution:**





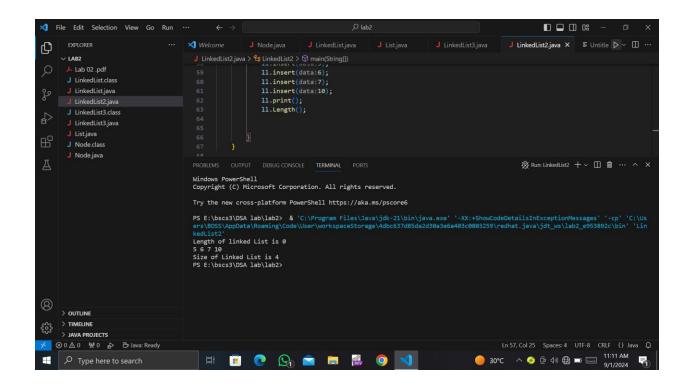
### Task #2

### **Solution:**

```
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<sub>C</sub>
     EXPLORER.
                               ··· × Welcome
     ∨ LAB2
      ▶ Lab 02 .pdf
      J LinkedList.class
                                              Node tail;
     J LinkedList.java
J LinkedList2.java
                                              public boolean Isempty(){
     J LinkedList3.class
      J LinkedList3.java
                                                   public void insert(int data)//add last
                                                       Node newNode=new Node(data);
                                                       if(Isempty()){
                                                          head=tail=newNode;
                                                          tail.next=newNode;
                                                          tail=newNode;
                                                      if(Isempty()){
    System.out.println(x:"linked list is empty");
     > OUTLINE
     > TIMELINE
                                                          Node temp=head;
     > JAVA PROJECTS
                                                           while(temp!=null){
                                                                                                                  Ln 57, Col 25 Spaces: 4 UTF-8 CRLF {} Java 🚨
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刘 File Edit Selection View Go Run …

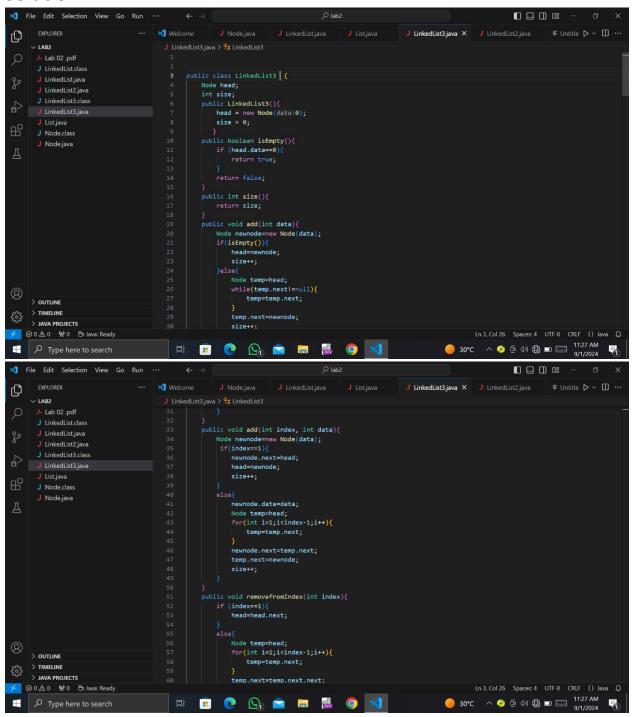
★ Welcome

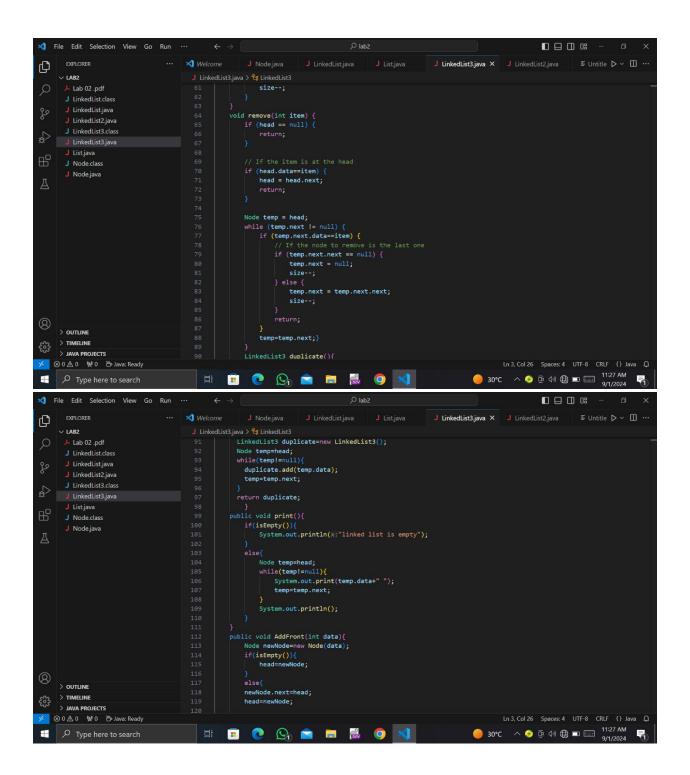
                                                                                                  J LinkedList3.java J LinkedList2.java X ≡ Untitle ▷ ∨ □ ···
0
                                                              System.out.print(temp.data+" ");
                                                              temp=temp.next;
      J LinkedList2.java
      J LinkedList3.class
                                                   public void Length(){
   int size=0;
   if(Isempty()){
      J LinkedList3.java
      J List java
      J Node.class
       J Node.iava
                                                          Node temp=head;
                                                              temp=temp.next;
                                                   Run|Debug
public static void main(String[] args) {
                                                      LinkedList2 11 = new LinkedList2();
11.Length();
11.insert(data:5);
     > OUTLINE
                                            ?
    > TIMELINE
     > JAVA PROJECTS
🗴 ⊗ 0 🛦 0 💖 0 🕁 🔭 Java: Ready
                                                                                                                  Ln 57, Col 25 Spaces: 4 UTF-8 CRLF {} Java \( \infty \)
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```

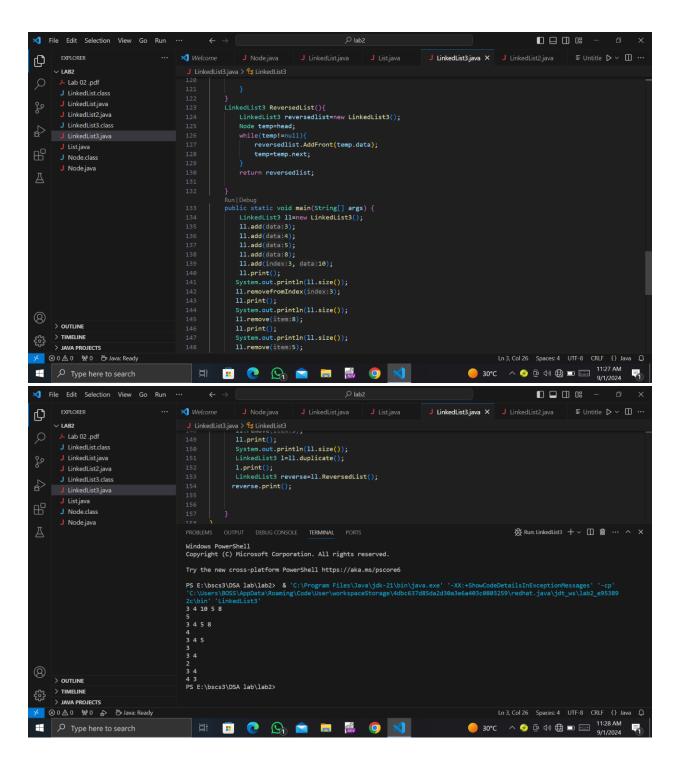


#### Task #3

### **Solution:**







**THE END**